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Contaminant Monitoring Report For Seafood Harvested In 2002 From The New Bedford Harbor Superfund Site





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# Table of Contents

1.	Introduction1
2.	Seafood Monitoring Program Design1
3.	2002 Field Collection
4.	Analytical Chemistry2
5.	Results and Discussion4
6.	References6
	Figures
1.	The 1979 state fishing ban
2.	Lobster collection stations - 2002
3.	Quahog collection stations, Area I - 2002
4.	Quahog collection stations, Areas II and III - 2002
5.	Winter flounder collection stations - 2002
6.	American eel collection stations - 2002
7.	PCBs in Lobster, 2002, Closure Area II - tomalley, tail and claw meat
7a.	PCBs in Lobster, 2002, Closure Area II - tail and claw meat only, no tomalley
7b.	PCBs in Lobster, 2002, Closure Area II - tomalley only
8.	PCBs in Lobster, 2002, Closure Area III - tomalley, tail and claw meat
8a.	PCBs in Lobster, 2002, Closure Area III - tail and claw meat only, no tomalley
8b.	PCBs in Lobster, 2002, Closure Area III - tomalley only
9.	Spring Season Average PCB Levels in Lobster Since 1980, Area III
10.	PCBs in Quahogs, 2002 - Closure Area I
11.	PCBs in Quahogs, 2002 - Closure Area II
12.	PCBs in Quahogs, 2002 - Closure Area III
13.	PCBs in Flounder, 2002 - Closure Area I
14.	PCBs in Eel, 2002 - Closure Area I
15.	Average PCB Levels in Quahog by Closure Area, 2002
16.	Average PCB Levels in Lobster by Closure Area, 2002
	Tables
1.	Sample Data for Quahogs, 2002
2.	Sample Data for Lobsters, 2002
3.	Sample Data for Winter Flounder and American Eel, 2002
4.	Metals in New Bedford Harbor Seafood, 2002
5.	Calculation of PCBs in Tomalley, Tail and Claw meat, Area Π (2002)
6.	Calculation of PCBs in Tomalley, Tail and Claw meat, Area III (2002)
	Appendices
A.	Chain-of-Custody/Analysis Report for Login Batch 2003005
B.	Chain-of-Custody/Analysis Report for Login Batch 2003006
C.	Blue Mussel Bioaccumulation Data - U.S. EPA NHEERL, Narragansett, RI
D.	MA DMF Summary Data on PCB Levels in Lobster Since 1980, Area III

### 1. Introduction

This report documents the levels of PCBs (polychlorinated biphenlys), cadmium, chromium, copper, and lead measured in four seafood species caught in New Bedford Harbor and surrounding Buzzards Bay in southeastern Massachusetts in 2002. This seafood monitoring program is part of the ongoing PCB cleanup program for the New Bedford Harbor (NBH) Superfund site, and was a collaborative effort involving the MA Department of Marine Fisheries (DMF), the MA Department of Environmental Protection, (DEP) and the U.S. Environmental Protection Agency-New England Region (EPA).

Due to the identification of high PCB levels in area seafood, the MA Department of Public Health in 1979 promulgated regulations restricting seafood consumption in three closure areas in and around NBH (Figure 1). NBH was subsequently listed as a Superfund site in 1983. Approximately 46,000 cubic yards (cy) of the most highly PCB-contaminated subtidal and shoreline sediments have been remediated to date, and the start of the cleanup program's full scale dredging program of roughly 860,000 cy is slated for fall 2004. Consistent with the 1998 Record of Decision (ROD) for the site, this seafood monitoring program will aid in the evaluation of the overall effectiveness of the harbor cleanup, as well as assist in the implementation of institutional controls and seafood restrictions.

### 2. Seafood Monitoring Program Design

Based on previous investigations and risk assessments performed for the NBH site, four species were selected for this monitoring program that are considered locally caught seafood and which bracket potential worse case tissue levels. These four species are lobster (*Homarus americanus*), winter flounder (*Pleuronectes americanus*), quahog (i.e., hard shelled clam, *Mercenaria mercenaria*) and American eel (*Anquilla rostrata*) The goal of this seafood monitoring program is to acquire annual collections of all species (preferably in pre-spawning condition) in sufficient numbers from all three closure areas to enable statistical comparisons between them.

To meet this goal, the monitoring design calls for five replicate composite samples for each of the four species from each of the three closure areas. Ideally, this would result in a total of sixty samples for analysis of PCBs and metals. For winter flounder, lobster and eel, each composite sample would consist of three legally harvestable organisms and for quahog the composite would consist of one dozen legally harvestable organisms. The number of composites was determined according to Sokal and Rohlf (1995) using the coefficient of variation (c.v.) from the DMF's 1995 lobster sampling program in Area III (mean = 1.3 ppm, standard deviation = 0.28, c.v. = 22%). The significance level used was 5% and the probability that the significance will be found if it exists was set at 90%. Based on the known levels of PCBs in NBH seafood, there is a high likelihood of detecting PCB concentrations that are 50% different between each closure area.

In addition to comparing the results of this monitoring to past and future seafood monitoring results, the results of this seafood monitoring program will be compared to the

current U.S. Food and Drug Administration's (FDA's) criteria for PCBs in commercial seafood of 2 parts per million (ppm). It was exceedances of the FDA criteria in NBH seafood which prompted promulgation of the state's seafood closure areas in 1979 (the FDA criteria at that time was 5 ppm). In addition to comparisons to the current FDA level, and as explained in the 1998 ROD, EPA will compare the results of the seafood monitoring program to a site-specific threshold of 0.02 ppm PCBs. This 0.02 ppm PCB level was developed to ensure the protection of local residents whose seafood consumption might include seafood caught mostly if not entirely from NBH. This 0.02 ppm PCB level was calculated to represent a one-in-one-hundred-thousand chance that an individual would develop cancer as a result of consuming seafood from NBH (10<sup>-5</sup> incremental cancer risk).

#### 3. 2002 Field Collection

DMF initiated the field sampling program on June 19, 2002 with the collection of quahog from all three seafood closure areas. Quahog collections concluded on September 11, 2002. Five stations were located in each of the three closure areas that produced sufficient sample sizes consistent with the monitoring program design.

Collection of lobster, winter flounder and American eel using fish pots began on October 10, 2002 and concluded on December 13, 2002. Despite considerable effort to collect species according to the monitoring program design, however, all species were not obtained in all three closure areas as originally planned. In summary, lobster were not found in Area I (despite 90 trap hauls) and only a limited number of winter flounder (4) and eel (2) were found in Area I only (despite 72 and 86 trap hauls, respectively). As a result of this limited sample recovery, the 2003 field collection (not covered by this report) was modified to include other locally-consumed seafood species including blue crab, scup, summer flounder and black sea bass.

Complete collection information including the dates fished, identification information, species, station identification, latitude and longitude, collection method and chain of custody is included in Appendix A and B. All samples were delivered frozen to the DEP Wall Experiment Station (WES) in Lawrence, MA on January 3, 2003.

The locations of all seafood collection stations included in the 2002 field effort are shown in Figures 2 through Figure 6.

## 4. Analytical Chemistry

The first step in the analytical process was the compositing of the quahog and lobster samples. For quahog, twelve individuals from each sample location were combined to form one composite sample per location. For lobster, three individuals from each sample location were used to form composite samples. The tail and claw meat from each of the three animals were combined to form a tail and claw meat composite sample for the location, and the tomalley from each of the three animals was combined to form a separate composite sample for the location.

The tail/claw meat composites were analyzed separately from the tomalley composites in order to quantify the PCB levels in the respective tissue types. A combined PCB level for the tail and claw meat combined with the tomalley was then calculated as follows:

[(tail/claw PCB conc. x tail/claw weight) + (tomalley PCB conc. x tomalley weight)]

(tail/claw weight + tomalley weight)

The seafood samples were analyzed by WES using modified method 983.21 (modified method 8082) for five PCB Aroclors and for 28 specific PCB congeners. Modified method 983.21 is a dual column GC/ECD (gas chromatogram/electron capture detection) method. Both the Aroclor and the congener approach were used to allow comparisons with previous site data of both types. The five Aroclors measured were Aroclors 1232, 1242, 1248, 1254 and 1260. The 28 congeners measured were the eighteen NOAA (National Oceanic and Atmospheric Administration) list congeners and the twelve WHO '98 (1998 World Health Organization) list of dioxin-like congeners. Two congeners, BZ #105 and #108, appear on both lists. The NOAA congener list was used by the MA DMF in its analysis of Area III lobsters from 1988 - 1998, while Aroclors had been used previous to this. The NOAA list typically represents approximately 45% of the total PCB in marine tissue (NOAA, 1993).

The congeners quantitated in this effort were BZ #8, 18, 28, 44, 52, 66, 77\*, 81\*, 101, 105\*, 114\*, 118\*, 123\*, 126\*, 128, 138, 153, 156\*, 157\*, 167\*, 169\*, 170, 180, 187, 189\*, 195, 206, and 209 (\* indicates dioxin-like congener). Congeners #170 and #180 were removed from the WHO '96 list and do not appear on the WHO '98 list. The WHO '98 congeners were included to enable the evaluation of risks to human health due to the presence of any dioxin-like PCB congeners, if deemed necessary.

Tissues from lobster meat, lobster tomalley, quahogs, flounder and eel were collected and filleted, sub-sampled and composited for sample extraction and analysis. For each group, 20 grams of wet sample tissue was mixed with anhydrous sodium sulfate (Na<sub>2</sub>SO<sub>4</sub>) and 200 mL hexane and ground/homogenized using a tissuemizer. The resulting mixture was then filtered through a sharkskin filter utilizing a side arm Buchner funnel flask. The resulting clear fluid extract was transferred to a 250 mL volumetric flask and brought to volume with hexane.

This extract was then cleaned up to remove the lipid portion and separate the PCB analytes from the lipid. For this cleanup, a chromatography column containing approximately 20 grams of Florisil was constructed and initially eluted with hexane. A 25 mL aliquot of the 250 mL hexane extract was pipetted onto the column and the eluted liquid collected. The column was subsequently eluted with sequential elutions of 15% diethyl ether/hexane and 50% diethyl ether/hexane to remove the PCB from the column while trapping the lipid portion of the extract. A separate 10 ml of the 250 ml of extract was pipetted into a tared dish and the hexane evaporated to gravimetrically determine the lipid content.

The Florisil-cleaned extract was concentrated using a Kuderna-Danish apparatus and adjusted to 10 mL with hexane for analysis. The dual column, duel ECD detector, gas chromatograph was calibrated for all the above congeners, chlorinated pesticides and for the eight Aroclor standards. The chromatographic conditions were adjusted to permit the separation and quantitative measurement of all the target PCB Aroclors as well as the congeners listed above. Several of the low concentration dioxin-like congeners co-elute with higher concentration (more prevalent) congeners. PCB congeners BZ #77 co-elutes with BZ # 110, and BZ #126 co-elutes with BZ# 129 on the primary column but both were separated on a second confirmation column. Therefore, PCB congeners BZ# 77 and BZ #126, if present can be quantitated on the confirmation column. Both of these congeners have relatively high dioxin-like characteristics.

The quantitation is performed by identifying the congener or Aroclor using the calibrated retention time windows for each congener or Aroclor and comparing the response of the sample peak to the response of the standard peaks over the calibration range. The WES Standard Operating Procedure #AOAC 983.21 should be consulted for further details on chromatographic conditions, quality control criteria, and other elements of the analysis. While lipid content was reported, the wet weight PCB concentrations reported herein are not lipid normalized.

#### Results and Discussion

As with previous studies of sediments, water column, marine tissue, and air at the NBH site, the current data set demonstrates a decreasing trend (north to south) of PCB levels in marine tissue. In other words, tissue PCB levels decrease proportionally with the distance from the primary source of PCBs to the upper harbor (the Aerovox facility). This trend is also clearly noticeable in the individual (as opposed to area-averaged) results from Area I: the tissue samples taken closest to the upper harbor are the highest in PCBs (e.g., quahog site E1, flounder site B1, and eel site A1). Figures 7 through 14 graphically summarize the current data, and Tables 1 through 4 tabulate the individual sample results.

PCBs are a group of similar organic molecules featuring a "figure-eight" structure of two bonded benzene rings with chlorine atoms attached at up to ten different attachment sites. Theoretically, up to 209 different PCB congeners (or molecular variations) are possible, yet only about 120 of these are found in the natural environment. Furthermore, NOAA has demonstrated that 18 specific congeners are the most pervasive and generally make up the majority of PCB mass in marine tissues. In addition, WHO considers 12 specific dioxin-like congeners to present the greatest risk to human health. As noted above in section 4, two congeners, BZ #105 and BZ #118, are included in both the NOAA and the WHO congener sets.

Throughout their industrial use in the U.S., PCBs were sold under the Aroclor trade name. Aroclors are a mixture of congeners, and different Aroclor types consisting of different congeners and chlorine levels were manufactured (e.g., Aroclor 1242 had 42% chlorine, and Aroclor 1260 had 60% chlorine). For this monitoring effort, both Aroclors and congeners (the 28 congeners of the combined NOAA and WHO subsets) were measured to assist in the comparison

with previous site data, as well as to further understand the similarities and differences of these two analytical approaches.

For lobster PCB measurements (but not the other species tested), the current PCB results indicate that the Aroclor approach under-estimates the true PCB concentration in marine tissue. As a rough rule of thumb - for lobsters - the congener results were approximately two times or more higher than the Aroclor results. Note that this approximation becomes less accurate when comparing very low and very high PCB measurements.

Interestingly, for two of the other three species tested (quahog and winter flounder) the opposite result was indicated. For these species, the Aroclor approach yielded results that were roughly twice as high as the congener approach. Again, this approximation becomes less accurate when comparing more extreme PCB values (e.g., see the eel results: 21.32 ppm congeners; 24.37 ppm Aroclors - Figure 14).

It should be noted that PCB tissue levels generally increase with the fat or lipid content of the tissue being tested. Thus, the PCB results for eel and lobster tomalley (both high in lipids) are significantly higher than the other tissues tested.

Overall, the current PCB data indicate a continuing unacceptable risk to human health due to consumption of seafood caught in and around NBH. Obviously this risk does not apply to seafood caught by the harbor's commercial fishing fleet, as this seafood is caught further offshore than the three PCB closure areas discussed herein.

EPA notes, however, that the PCB results for Area III lobster with the tomalley tissue removed indicate that risks to human health from lobster tail and claw meat from Area III have moved into its acceptable range (see Figure 8a). With the tomalley included, however, these Area III lobster remain a cause for concern, especially when using the congener analytical approach (see Figure 8). Figure 9 illustrates the current Area III lobster data in context with historic Area III lobster data (with tomalley included), and shows significantly decreased levels from the highest measured readings from the mid-1980's.

For metals, the most striking result is the high copper levels detected in lobster, and to a lesser extent in the Area I flounder and quahog (see Table 4). High copper levels in lobster have been reported in lobster for other areas in and around New England (Soles, 1995; National Research Council Canada, undated), generally attributable to their specific biochemistry. It should be noted, however, that NBH - especially Area I - contains very high levels of copper in both sediments and the water column (U.S. EPA, 1998, Figures 9 and 12).

Finally, although not part of this particular monitoring effort, Appendix 4 summarizes long term blue mussel (*Mytilus edulis*) PCB bioaccumulation data collected at NBH by EPA's research laboratory in Narragansett, RI. Consistent with the discussion above, these data also demonstrate the decreasing north to south trend in seafood tissue PCB levels. The closer the

animals tested are to the upper harbor (north of US Route 195), the higher their PCB body burdens will be.

### 6. References

EPA, 1998. Record of Decision for the Upper and Lower Harbor Operable Unit, New Bedford Harbor Superfund Site, New Bedford, Massachusetts. U.S. EPA - Region I New England. September 1998.

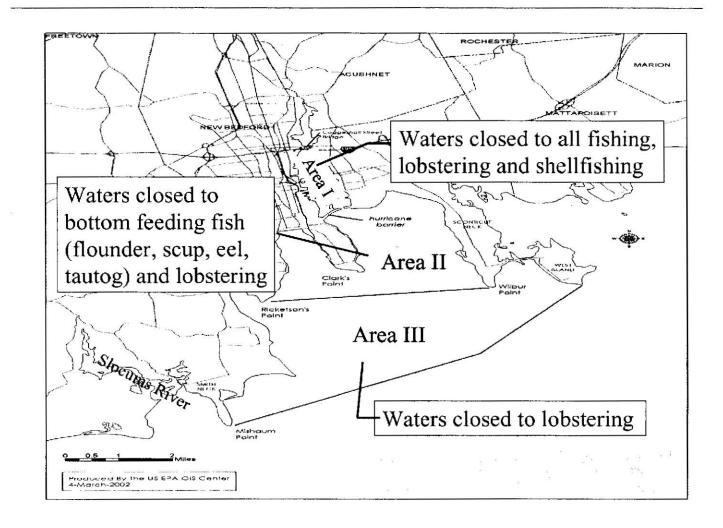
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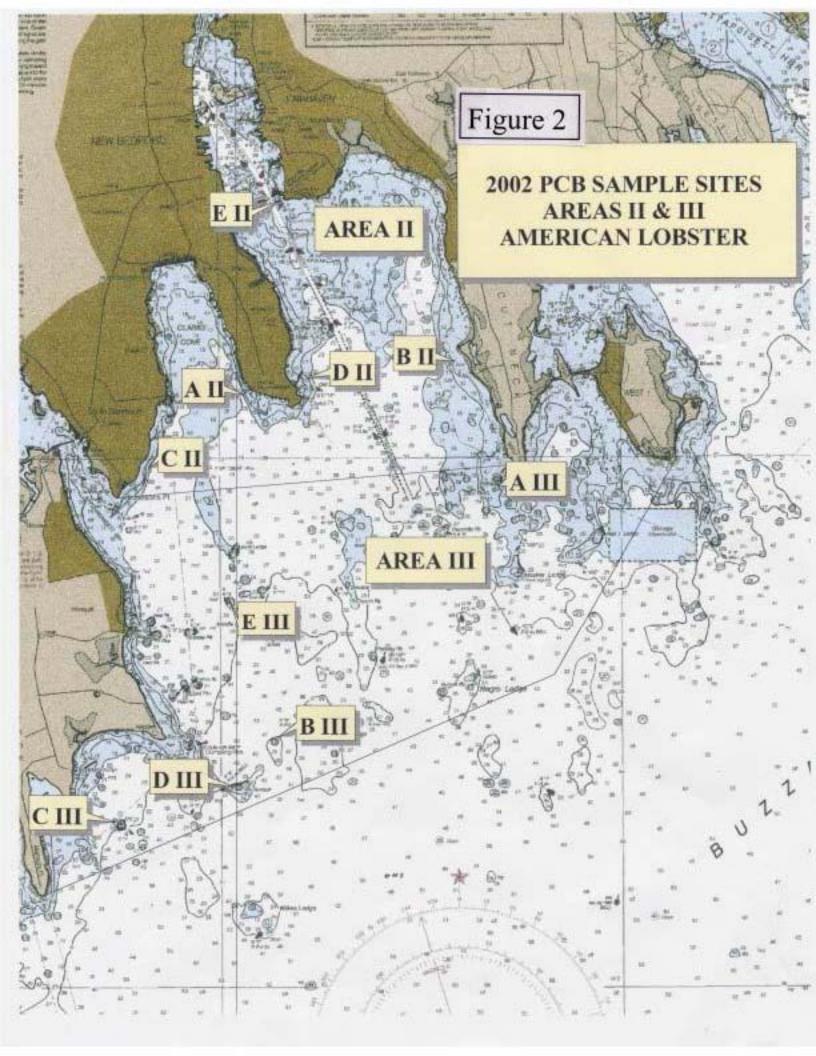
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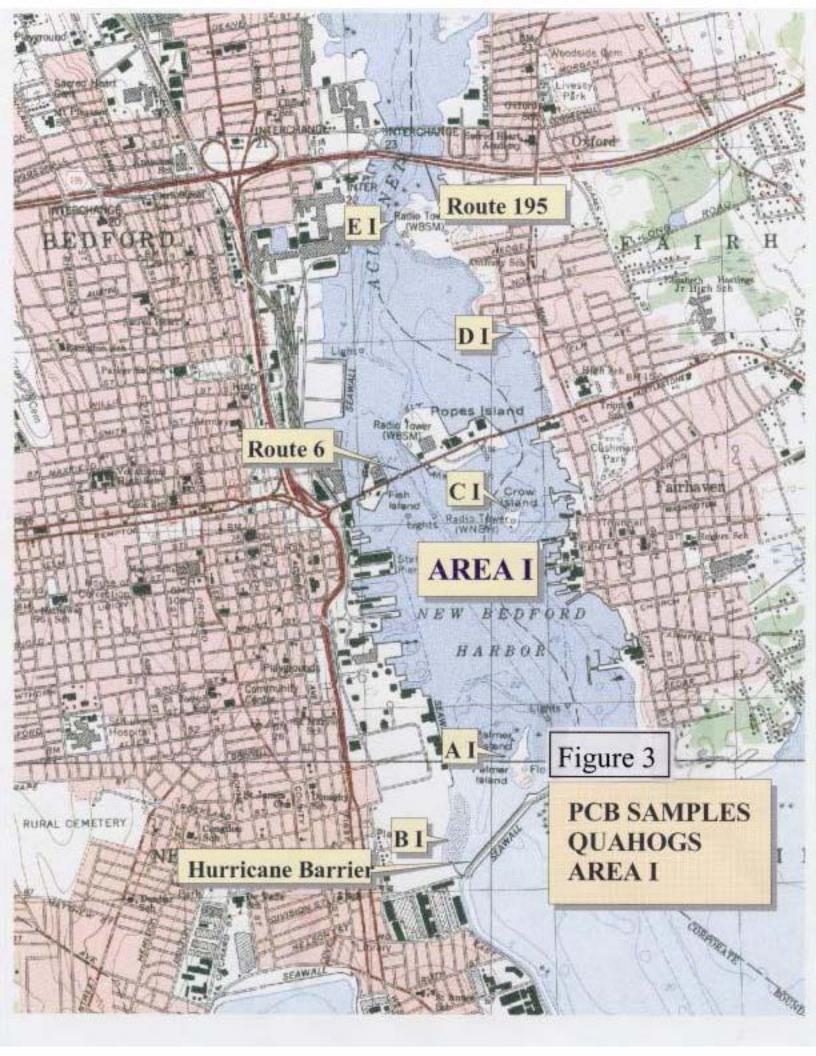
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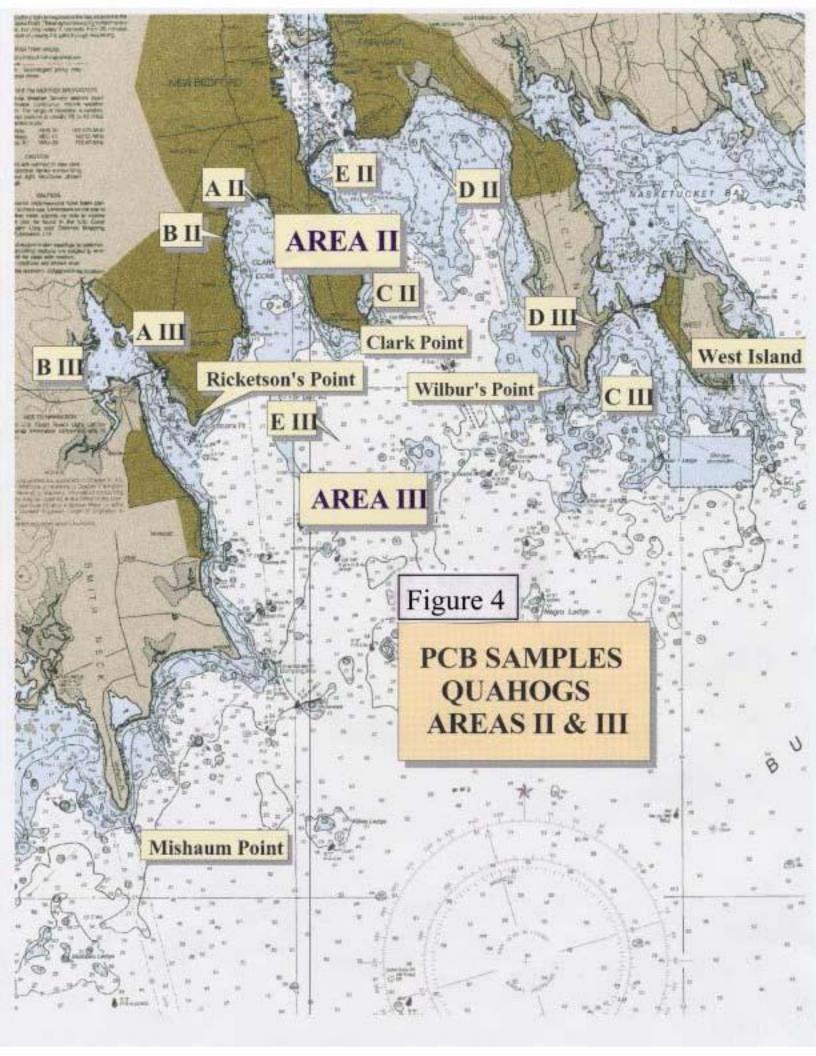
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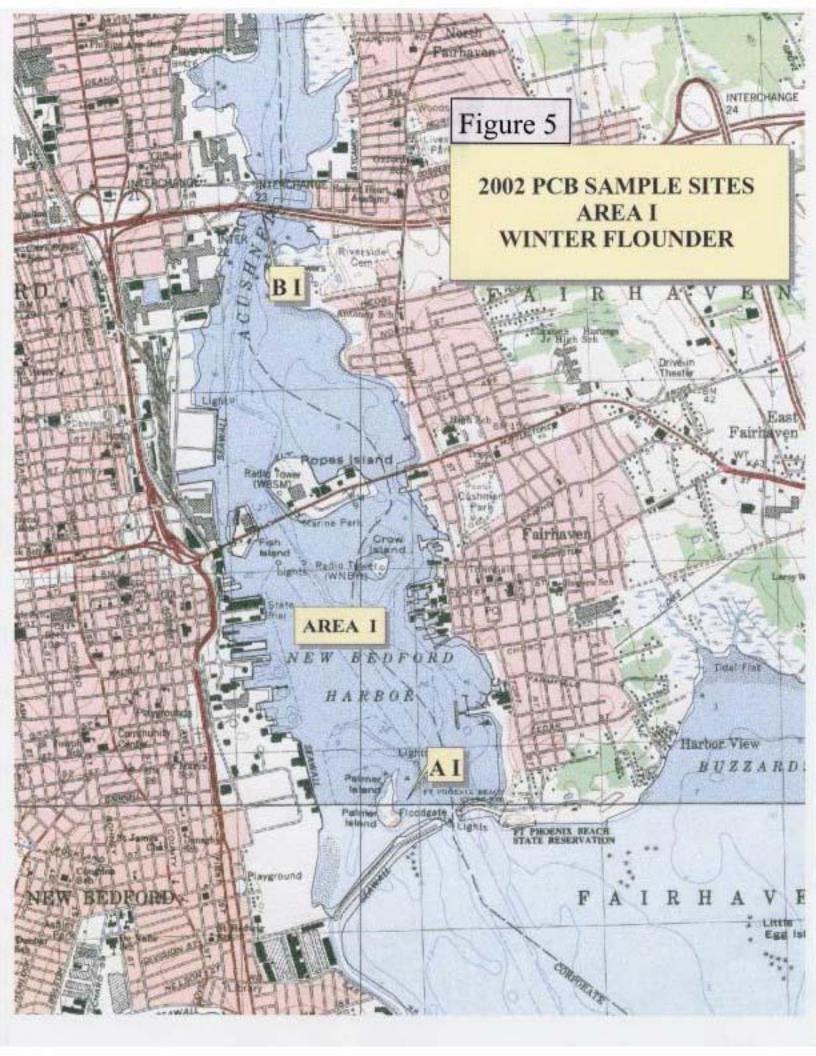
Figure 1 - the 1979 state fishing ban











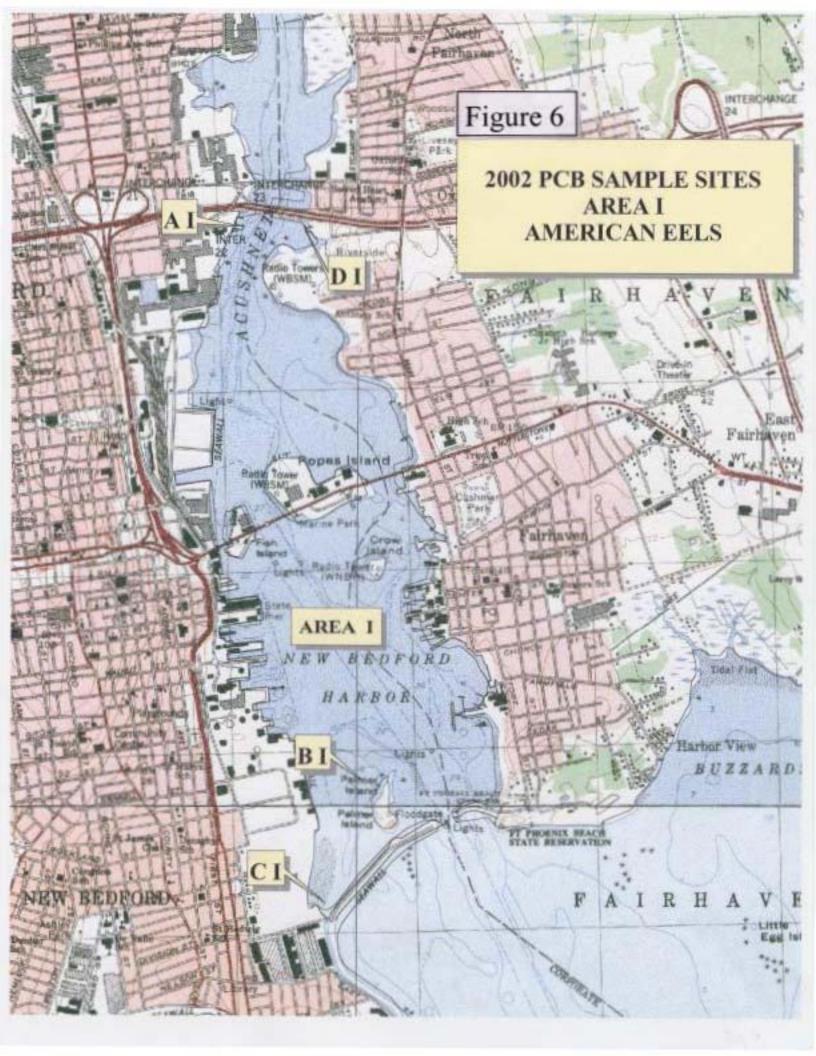
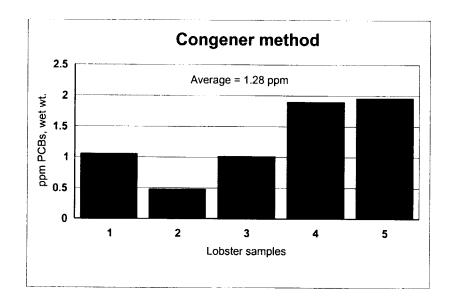


Figure 7: PCBs in Lobster, 2002 - Closure Area II

Tomalley, tail and claw meat



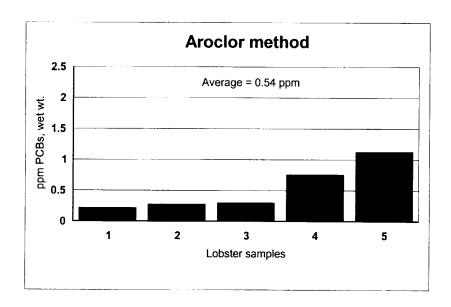
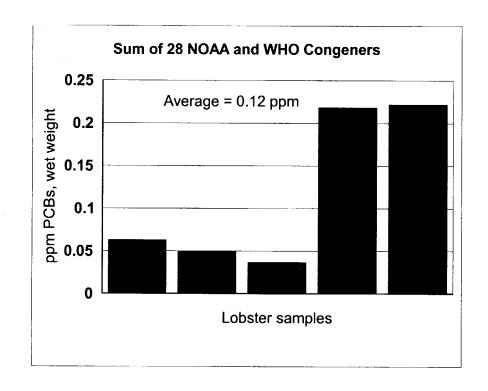
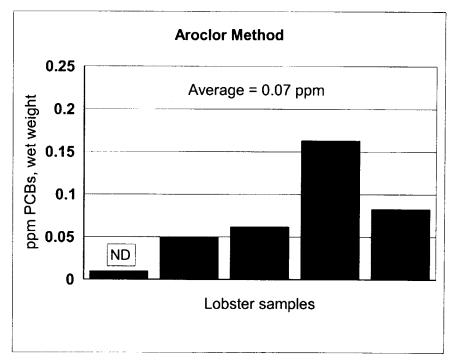


Figure 7a: PCBs in Lobster, 2002 - Closure Area II

Tail and claw meat only - no tomalley

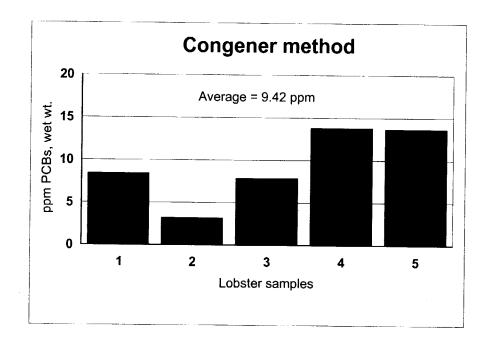




Note: for non-detects (ND), the value shown is the approximate value of the method detection level for each individual Aroclor.

Figure 7b: PCBs in Lobster, 2002 - Closure Area II

Tomalley only



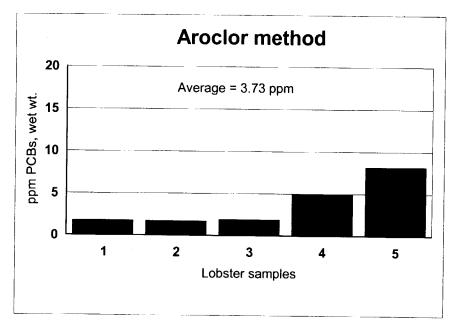
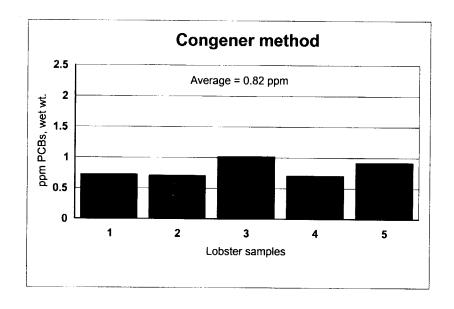


Figure 8: PCBs in Lobster, 2002 - Closure Area III

Tomalley, tail and claw meat



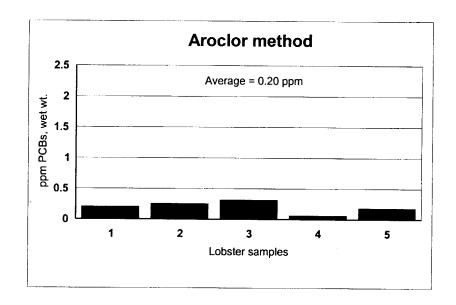
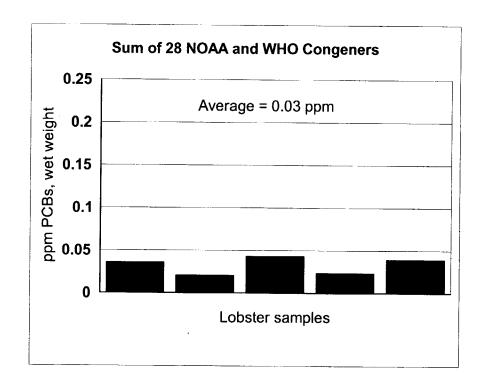
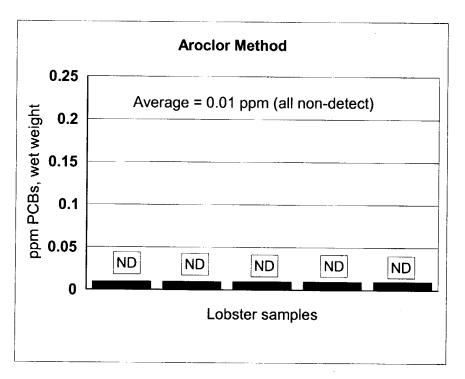


Figure 8a: PCBs in Lobster, 2002 - Closure Area III

Tail and claw meat only - no tomalley

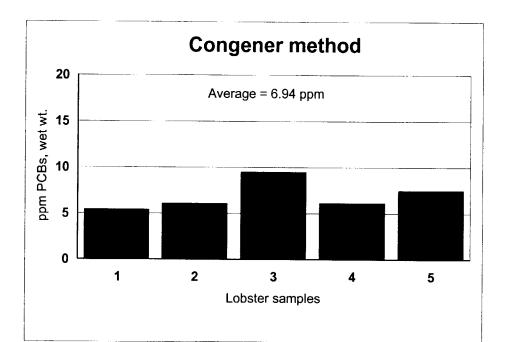




Note: for non-detects (ND), the value shown is the approximate value of the method detection level for each individual Aroclor.

Figure 8b: PCBs in Lobster, 2002 - Closure Area III

Tomalley only



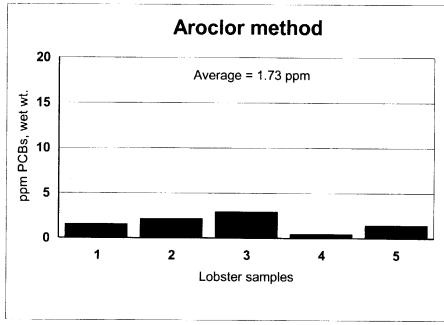
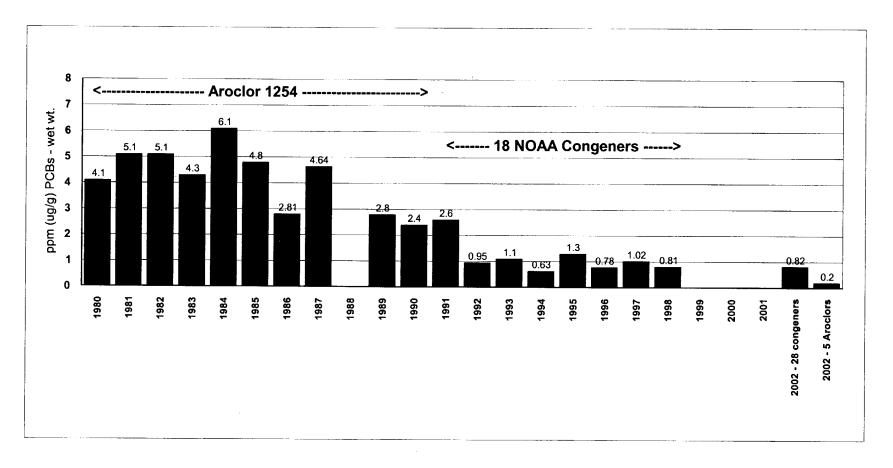


Figure 9 - Spring Season Average PCB Levels in Lobster Since 1980, Area III
New Bedford Harbor Superfund Site

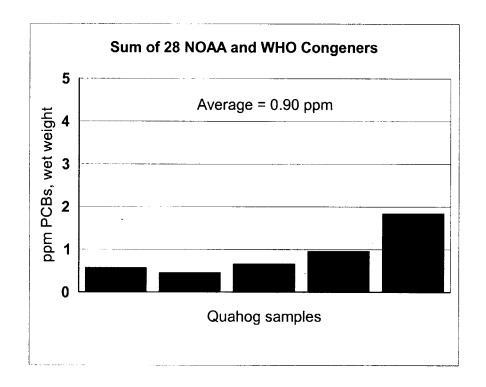
Tail and claw meat with tomalley (see note #4)



#### Notes:

- 1. Data from 1980 through 1998 are as reported by the MA DMF. Data for 2002 is from the MA DEP.
- 2. No data available for 1988, 1999, 2000 and 2001.
- 3. Data for 1981 is from summer, and data for 2002 is from fall.
- 4. Tomalley protocol: for DMF data (1990- 1998), the tomalley was physically included with the tail and claw meat prior to analysis. For DEP data (2002), the tomalley was analyzed separately from the tail and claw meat, and a weighted average was performed to calculate a combined concentration.

Figure 10: PCBs in Quahogs, 2002 - Closure Area I



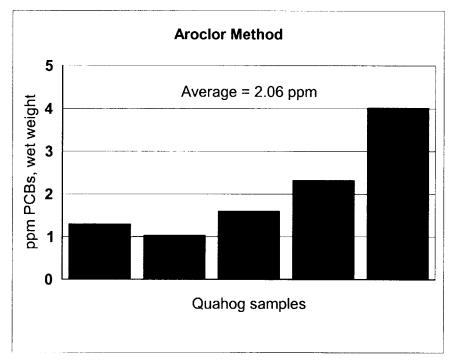
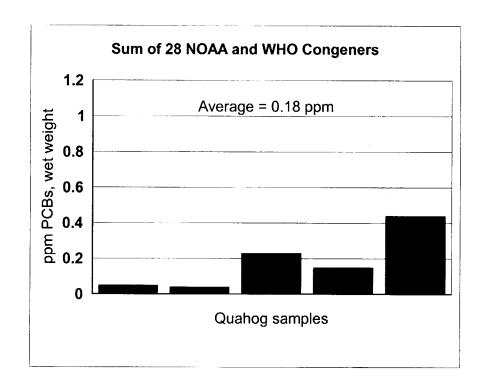


Figure 11 PCBs in Quahogs, 2002 - Closure Area II



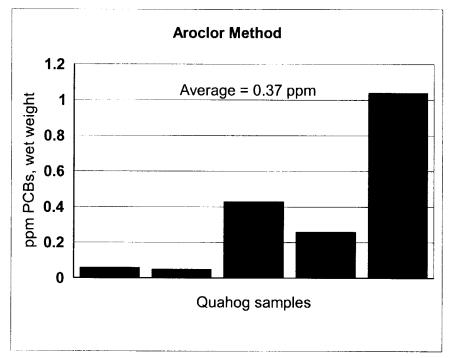
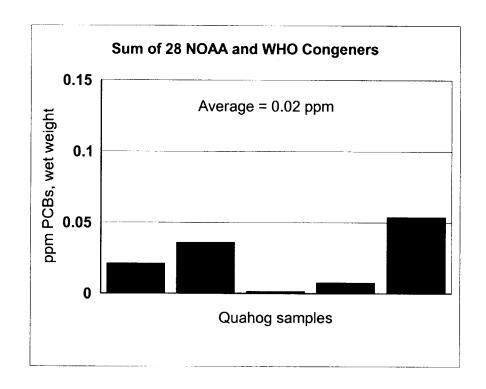
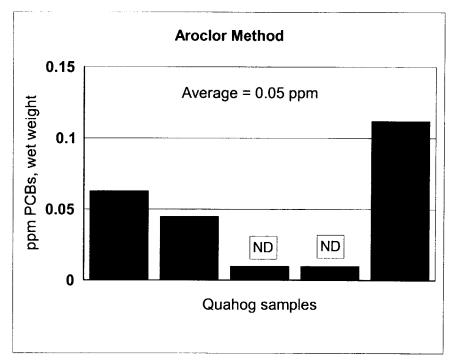


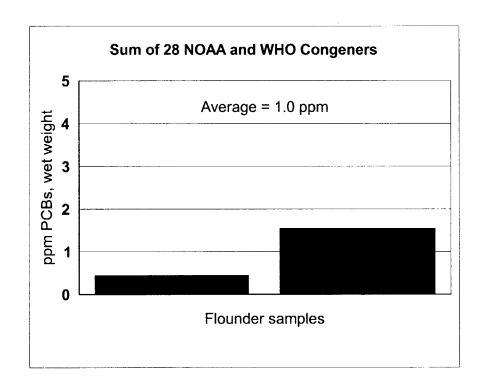
Figure 12: PCBs in Quahogs, 2002 - Closure Area III





Note: for non-detects (ND), the value shown is the approximate value of the method detection level for each individual Aroclor.

Figure 13: PCBs in Flounder, 2002 - Closure Area I



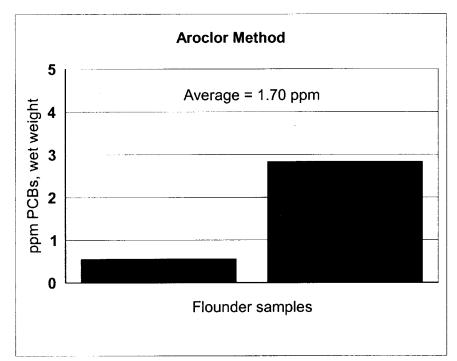
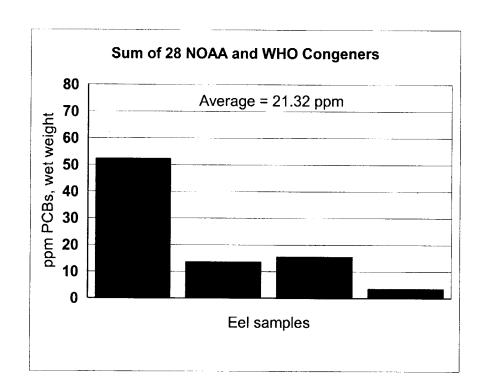


Figure 14: PCBs in Eel, 2002 - Closure Area I



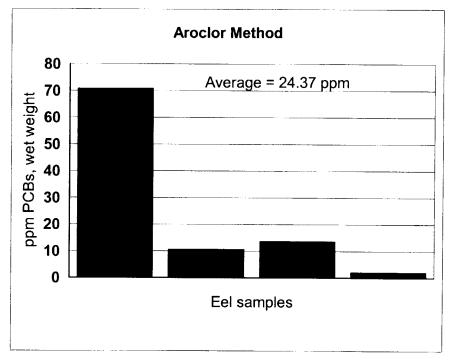
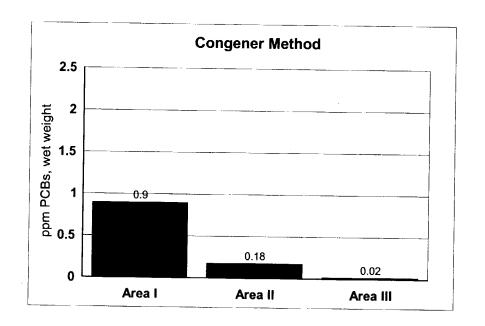


Figure 15: Average PCB Levels in Quahog by Closure Area, 2002



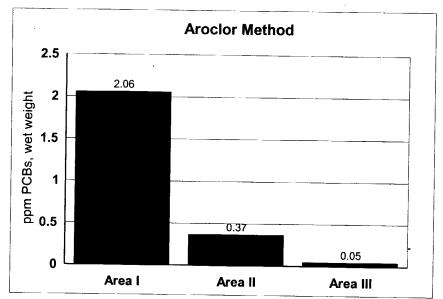
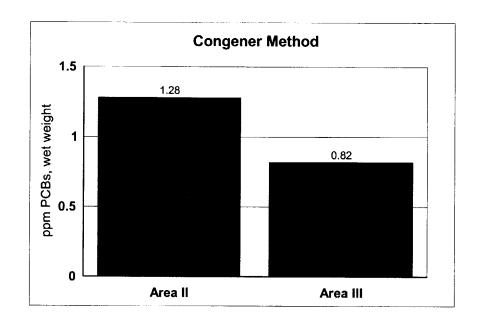
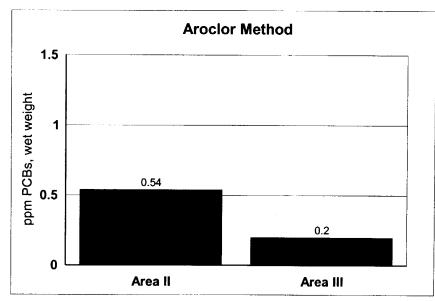


Figure 16: Average PCB Levels in Lobster by Closure Area, 2002

# Tail and claw meat with tomalley





		Closure		Sum of 28	Sum of 5	Lipids	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	
Sample #	Species	Area	Station	Congeners	<b>Aroclors</b>	%	1232	1242	1248	1254	1260	<b>BZ.8</b>
2003005-001	Quahog	11	Α	0.05	0.06	0.32	ND	0.045	ND	0.016	ND	0.0011
2003005-002	Quahog	11	В	0.04	0.05	0.28	ND	0.046	ND	ND	ND	ND
2003005-003	Quahog	11	С	0.23	0.43	0.57	ND	0.14	ND	0.27	0.023	0.0011
2003005-004	Quahog	H .	D	0.15	0.26	0.39	ND	0.12	ND	0.14	ND	ND
2003005-005	Quahog	11	Ε	0.44	1.04	0.49	ND	0.41	ND	0.59	0.04	0.0062
2003005-006	Quahog	i	Α	0.58	1.30	0.63	ND	0.47	ND	8.0	0.031	0.0048
2003005-007	Quahog	1	В	0.46	1.04	0.47	ND	0.4	ND	0.6	0.038	0.0025
2003005-008	Quahog	ı	С	0.67	1.60	0.46	ND	0.63	ND	0.91	0.061	0.0054
2003005-009	Quahog	1	D	0.96	2.33	0.62	ND	0.97	ND	1.3	0.058	0.0095
2003005-010	Quahog	1	E	1.85	4.02	0.61	ND	1.7	ND	2.2	0.12	0.3
2003005-011	Quahog	III	Α	0.02	0.06	0.41	ND	0.028	ND	0.035	ND	ND
2003005-012	Quahog	III	В	0.04	0.05	0.47	ND	0.031	ND	0.014	ND	ND
2003005-013	Quahog	111	С	0.002	ND	0.33	ND	ND	ND	ND	ND	ND
2003005-014	Quahog	Ш	D	0.01	ND	0.3	ND	ND	ND	ND	ND	. ND
2003005-015	Quahog	111	E	0.05	0.11	0.35	ND	0.036	ND	0.076	ND	ND

ND = not detected

Sample #	BZ.18	BZ.28	BZ.44	<b>BZ.52</b>	<b>BZ</b> .66	BZ.101	BZ.128	BZ.138	BZ.153	BZ.170	BZ.180	BZ.187	BZ.195	BZ.206
2003005-001	0.005	ND	0.0017	0.005	0.0051	0.0075	ND	0.0059	0.0085	ND	0.0015	ND	ND	ND
2003005-002	0.0046	ND	ND	0.0043	0.004	0.0058	ND	0.0047	0.0071	ND	ND	ND	ND	ND
2003005-003	0.016	0.025	0.017	0.036	0.025	0.025	0.0035	0.023	0.023	0.0021	0.0045	0.0041	ND	ND
2003005-004	0.014	0.022	0.016	0.029	0.022	0.013	0.0014	0.0099	0.013	ND	0.0023	0.0025	ND	ND
2003005-005	0.038	0.055	0.026	0.075	0.048	0.059	0.0056	0.037	0.019	0.0032	0.0053	0.0058	ND	ND
2003005-006	0.037	0.082	0.033	0.11	0.052	0.074	0.0056	0.039	0.049	0.0032	0.0047	0.0077	ND	ND
2003005-007	0.036	0.074	0.03	0.083	0.047	0.058	0.0043	0.03	0.034	0.0024	0.005	0.0053	ND	ND
2003005-008	0.052	0.11	0.038	0.12	0.065	0.088	0.0067	0.047	0.025	0.0039	0.0073	0.0064	ND	ND
2003005-009	0.077	0.15	0.053	0.17	0.086	0.13	0.0078	0.063	0.063	0.0049	0.0094	0.0088	ND	ND
2003005-010	0.13	0.35	0.082	0.27	0.061	0.2	0.016	0.091	0.11	0.0078	0.017	0.02	0.0012	ND
2003005-011	0.0063	ND	ND	0.0028	ND	ND	ND	0.0043	0.0042	ND	ND	ND	ND	ND
2003005-012	0.0027	ND	0.0016	0.004	0.0047	0.006	ND	0.0049	0.0064	ND	ND	ND	ND	ИĎ
2003005-013	ND	ND	ND	ND	ND	ND	ND	0.0017	ND	ND	ND	ND	ND	ND
2003005-014	ND	ND	ND	ND	ND	ND	ND	0.0038	0.0039	ND	ND	ND	ND	ND
2003005-015	ND	ND	0.0023	0.0065	0.0059	ND	0.0014	0.0099	0.012	ND	0.0016	0.0025	ND	ND

Sum	of	16
1	10	AA

		NUAA											
Sample #	BZ.209	Congeners	<b>BZ.77</b>	<b>BZ.81</b>	BZ.105	BZ.114	BZ.118	<b>BZ.123</b>	BZ.126	<b>BZ.156</b>	BZ.157	BZ.167	BZ.169
2003005-001	ND	0.0413	· ND	ND	ND	ND	0.0071	ND	ND	ND	ND	ND	ND
2003005-002	ND	0.0305	ND	ND	ND	ND	0.0057	ND	ND	0.0036	ND	ND	ND
2003005-003	ND	0.2053	0.0033	0.0047	ND	ND	0.015	ND	ND	ND	ND	ND	ND
2003005-004	ND	0.1451	ND	ND	ND	ND	0.0086	ND	ND	0.0011	ND	ND	ND
2003005-005	ND	0.3831	ND	ND	0.0043	ND	0.048	ND	ND	0.0053	0.0018	0.0024	ND
2003005-006	ND	0.5020	ND	ND	0.0098	ND	0.06	ND	ND	0.004	0.0015	0.002	ND
2003005-007	ND	0.4115	0.0031	ND	ND	ND	0.041	ND	ND	0.0037	0.0015	0.0018	ND
2003005-008	ND	0.5747	0.0055	ND	0.0043	ND	0.07	ND	0.0015	0.0058	0.0022	0.003	ND
2003005-009	ND	0.8324	0.0071	ND	0.012	ND	0.098	ND	ND	0.0074	0.0023	0.0032	ND
2003005-010	ND	1.6560	0.011	ND	0.011	ND	0.15	ND	ND	0.011	0.0034	0.0077	ND
2003005-011	ND	0.0176	ND	ND	ND	ND	0.0037	ND	ND	ND	ND	ND	ND
2003005-012	ND	0.0303	ND	ND	ND	ND	0.0058	ND	ND	ND	ND	ND	ND
2003005-013	ND	0.0017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2003005-014	ND	0.0077	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2003005-015	ND	0.0421	ND	ND	0.0014	ND	0.0092	ND	ND	0.0012	ND	ND	ND

Sum of 12

	Sum of 12						
	WHO					Solids	Weight
BZ.189	Congeners	Cadmium	Chromium	Copper	Lead	%	g - wet
ND	0.0071	0.064	0.35	1.75	0.389	11.5	618
ND	0.0093	0.033	0.169	0.734	0.086	10.8	541
ND	0.023	0.141	0.339	2.33	0.189	15.7	506
ND	0.0097	0.065	0.293	1.67	0.201	13	576
ND	0.0618	0.052	0.296	2.16	0.462	13.8	354
ND	0.0773	0.066	0.277	2.95	1.02	15.4	339
ND	0.0511	0.084	0.315	2.86	0.972	14.7	639
ND	0.0923	0.098	0.617	7.1	1.8	14.1	379
ND	0.13	0.071	0.458	3.68	1.37	14.7	274
ND	0.1941	0.112	0.633	4.08	1.37	14.1	313
ND	0.0037	0.054	0.257	2.37	0.83	13.4	417
ND	0.0058	0.084	0.102	1.97	0.377	14.5	435
ND	ND	0.063	0.097	1.7	0.075	10.5	140
ND	ND	0.083	0.061	1.2	0.096	10.5	766
ND	0.0118	0.109	0.383	1.75	0.3	13.1	592
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND 0.0923 ND 0.0971 ND 0.0097 ND 0.0097 ND 0.0618 ND 0.0511 ND 0.0923 ND 0.0511 ND 0.13 ND 0.13 ND 0.1941 ND 0.0037 ND 0.0058 ND ND ND	WHO           BZ.189         Congeners Cadmium           ND         0.0071         0.064           ND         0.0093         0.033           ND         0.023         0.141           ND         0.0097         0.065           ND         0.0618         0.052           ND         0.0773         0.066           ND         0.0511         0.084           ND         0.0923         0.098           ND         0.13         0.071           ND         0.1941         0.112           ND         0.0037         0.054           ND         0.0058         0.084           ND         ND         0.063           ND         ND         0.083	WHO           BZ.189         Congeners Cadmium         Chromium           ND         0.0071         0.064         0.35           ND         0.0093         0.033         0.169           ND         0.023         0.141         0.339           ND         0.0097         0.065         0.293           ND         0.0618         0.052         0.296           ND         0.0773         0.066         0.277           ND         0.0511         0.084         0.315           ND         0.0923         0.098         0.617           ND         0.13         0.071         0.458           ND         0.1941         0.112         0.633           ND         0.0037         0.054         0.257           ND         0.0058         0.084         0.102           ND         ND         0.063         0.097           ND         0.063         0.097           ND         0.083         0.061	WHO           BZ.189         Congeners Cadmium         Chromium         Copper           ND         0.0071         0.064         0.35         1.75           ND         0.0093         0.033         0.169         0.734           ND         0.023         0.141         0.339         2.33           ND         0.0097         0.065         0.293         1.67           ND         0.0618         0.052         0.296         2.16           ND         0.0773         0.066         0.277         2.95           ND         0.0511         0.084         0.315         2.86           ND         0.0923         0.098         0.617         7.1           ND         0.13         0.071         0.458         3.68           ND         0.1941         0.112         0.633         4.08           ND         0.0037         0.054         0.257         2.37           ND         0.0058         0.084         0.102         1.97           ND         ND         0.063         0.097         1.7           ND         ND         0.063         0.097         1.7           ND         0.0	WHO         Congeners         Cadmium         Chromium         Copper         Lead           ND         0.0071         0.064         0.35         1.75         0.389           ND         0.0093         0.033         0.169         0.734         0.086           ND         0.023         0.141         0.339         2.33         0.189           ND         0.0097         0.065         0.293         1.67         0.201           ND         0.0618         0.052         0.296         2.16         0.462           ND         0.0773         0.066         0.277         2.95         1.02           ND         0.0511         0.084         0.315         2.86         0.972           ND         0.0923         0.098         0.617         7.1         1.8           ND         0.13         0.071         0.458         3.68         1.37           ND         0.1941         0.112         0.633         4.08         1.37           ND         0.0037         0.054         0.257         2.37         0.83           ND         0.0058         0.084         0.102         1.97         0.377           ND         0	BZ.189         Congeners Cadmium         Chromium         Copper         Lead         %           ND         0.0071         0.064         0.35         1.75         0.389         11.5           ND         0.0093         0.033         0.169         0.734         0.086         10.8           ND         0.023         0.141         0.339         2.33         0.189         15.7           ND         0.0097         0.065         0.293         1.67         0.201         13           ND         0.0618         0.052         0.296         2.16         0.462         13.8           ND         0.0773         0.066         0.277         2.95         1.02         15.4           ND         0.0511         0.084         0.315         2.86         0.972         14.7           ND         0.0923         0.098         0.617         7.1         1.8         14.1           ND         0.13         0.071         0.458         3.68         1.37         14.7           ND         0.1941         0.112         0.633         4.08         1.37         14.7           ND         0.0037         0.054         0.257         2.37

		Closure		Sum of 28	Sum of 5	Lipids	Aroclor	Aroclor	Aroclor	Aroclor
Sample #	Species	Area	Station	Congeners	Aroclors	%	1232	1242	1248	1254
2003006-001	Lobster Meat	111	A-Angelica Rock	0.04	ND	0.26	ND	ND	ND	ND
2003006-002	Lobster Tomalley	IfI	A-Angelica Rock	5.45	1.56	17	ND	0.59	ND	0.36
2003006-003	Lobster Meat	Ш	B-Radome R8	0.02	ND	0.19	ND	ND	ND	ND
2003006-004	Lobster Tomalley	[11]	B-Radome R8	6.10	2.17	25	ND	0.42	ND	0.55
2003006-005	Lobster Meat	111	C-SP Rock C 1	0.04	ND	0.21	ND	ND	ND	ND
2003006-006	Lobster Tomalley	111	C-SP Rock C 1	9.51	2.95	16	ND	ND	ND	0.85
2003006-007	Lobster Meat	111	D-Sand Spit R 4	0.02	ND	0.23	ND	ND	ND	ND
2003006-008	Lobster Tomalley	111	D-Sand Spit R 4	6.15	0.48	28	ND	ND	ND	ND
2003006-009	Lobster Meat	IH	Station E Lone Rock N 4	0.04	ND	0.27	ND	ND	ND	ND
2003006-010	Lobster Tomalley	111	Station E Lone Rock N 4	7.51	1.47	21	ND	ND	ND	0.37
2003006-011	Lobster Meat	11	Station A SMAST Pier	0.06	ND	0.28	ND	ND	ND	ND
2003006-012	Lobster Tomalley	H	Station A SMAST Pier	8.44	1.79	18	ND	ND	ND	0.69
2003006-013	Lobster Meat	11	Station B Sconticut Neck	0.05	0.05	0.3	ND	0.05	ND	ND
2003006-014	Lobster Tomalley	11	Station B Sconticut Neck	3.22	1.72	16	ND	0.54	ND	0.58
2003006-015	Lobster Meat	11	Station C Ricketsons Pt	0.04	0.06	0.21	ND	0.062	ND	ND
2003006-016	Lobster Tomalley	11	Station C Ricketsons Pt	7.90	1.92	25	ND	ND	ND	0.82
2003006-017	Lobster Meat	II.	Station D E Fort Rodman	0.22	0.16	0.23	ND	0.14	ND	ND
2003006-018	Lobster Tomalley	H	Station D E Fort Rodman	13.82	5.00	15	ND	1.1	ND	2
2003006-019	Lobster Meat	П	Station E Fort Phoenix	0.22	0.08	0.33	ND	0.061	ND	ND
2003006-020	Lobster Tomalley	П	Station E Fort Phoenix	13.70	8.20	12	ND	1.7	ND	4.9

ND = not detected

	Aroclor												
Sample #	1260	<b>BZ.8</b>	<b>BZ.18</b>	BZ.28	<b>BZ.44</b>	BZ.52	<b>BZ.66</b>	BZ.101	BZ.128	BZ.138	BZ.153	BZ.170	BZ.180
2003006-001	ND	ND	ND	ND	ND	ND	0.0044	ND	0.0018	0.0075	0.014	ND	0.0013
2003006-002	0.61	ND	0.035	0.16	ND	0.039	0.26	0.17	0.13	1	1.6	0.082	0.13
2003006-003	ND	ND	0.0021	ND	ND	ND	ND	ND	ND	0.0044	0.0082	ND	ND
2003006-004	1.2	ND	0.024	0.083	ND	ND	0.19	ND	0.22	1.3	1.9	0.1	0.24
2003006-005	ND	ND	ND	ND	ND	ND	ND	ND	0.0025	0.0074	0.017	ND	0.0025
2003006-006	2.1	ND	ND	0.17	ND	ND	0.24	0.21	0.37	1.4	3.1	0.23	0.48
2003006-007	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	0.0058	0.0099	ND	ND
2003006-008	0.48	ND	ND	0.08	ND	ND	0.2	0.19	0.23	1.4	1.9	0.074	0.14
2003006-009	ND	ND	ND	ND	ND	ND	ND	ND	0.0021	0.0078	0.015	ND	0.0019
2003006-010	1.1	ND	ND	0.27	ND	0.093	0.51	0.3	0.24	1.2	2.1	0.11	0.25
2003006-011	ND	ND	ND	ND	ND	ND	0.0052	ND	0.0033	0.013	0.018	0.0013	0.0021
2003006-012	1.1	ND	ND	0.24	ND	0.059	0.45	0.25	0.32	1.6	2.2	0.12	0.27
2003006-013	ND	ND	0.0022	0.0039	ND	ND	0.0045	ND	0.0017	0.0066	0.013	ND	0.0012
2003006-014	0.6	ND	0.031	0.24	ND	0.033	0.26	0.079	0.077	0.7	0.65	0.074	0.11
2003006-015	ND	ND	0.0022	ND	ND	ND	0.0036	ND	0.0021	0.0074	0.013	ND	ND
2003006-016	1.1	ND	ND	0.18	ND	ND	0.43	0.15	0.29	1.4	2.2	0.12	0.27
2003006-017	0.023	ND	0.0041	0.013	ND	0.0046	0.019	ND	0.0074	0.035	0.051	0.0034	0.0047
2003006-018	1.9	ND	0.058	0.65	ND	0.24	0.72	0.37	0.53	2.3	3.3	0.27	0.49
2003006-019	0.022	ND	0.0042	0.017	ND	0.0042	0.021	0.0053	0.0056	0.027	0.045	0.0026	0.0044
2003006-020	1.6	0.028	0.1	0.86	0.038	0.28	1	0.44	0.36	2	3.1	0.19	0.35

Sum	of	16	
	10	ΔΔ	

					NUAA								
Sample #	BZ.187	BZ.195	BZ.206	BZ.209	Congeners	BZ.77	BZ.81	BZ.105	BZ.114	BZ.118	BZ.123	BZ.126	BZ.156
2003006-001	ND	ND	ND	ND	0.0290	ND	ND	ND	ND	0.0073	ND	ND	ND
2003006-002	0.13	ND	ND	ND	3.7360	ND	ND	0.24	0.023	1.3	ND	ND	0.11
2003006-003	ND	ND	ND	ND	0.0147	ND	ND	ND	ND	0.0064	ND	ND	ND
2003006-004	0.19	ND	ND	ND	4.2470	ND	ND	0.21	0.013	1.3	ND	ND	0.17
2003006-005	0.0024	ND	ND	ND	0.0318	ND	ND	0.003	0.007	ND	ND	ND	0.0016
2003006-006	0.43	0.02	0.019	ND	6.6690	ND	ND	0.38	0.048	1.9	ND	ND	0.22
2003006-007	ND	ND	ND	ND	0.0169	ND	ND	ND	ND	0.0068	ND	ND	ND
2003006-008	0.2	ND	ND	ND	4.4140	ND	ND	0.21	0.02	1.2	ND	ND	0.14
2003006-009	ND	ND	ND	ND	0.0268	ND	ND	0.0029	ND	0.0087	ND	ND	0.0013
2003006-010	0.18	ND	ND	ND	5.2530	ND	ND	0.3	0.013	1.6	ND	ND	0.16
2003006-011	ND	ND	ND	ND	0.0429	ND	ND	0.0039	ND	0.015	ND	ND	0.0012
2003006-012	0.18	ND	ND	ND	5.6890	ND	ND	0.33	0.041	2	ND	0.018	0.17
2003006-013	ND	ND	ND	ND	0.0331	ND	ND	0.0043	ND	0.011	ND	ND	0.0011
2003006-014	0.12	ND	ND	ND	2.3740	ND	ND	0.2	ND	0.44	ND	ND	0.097
2003006-015	ND	ND	ND	ND	0.0283	ND	ND	ND	ND	0.0073	ND	ND	0.0011
2003006-016	0.18	ND	ND	ND	5.2200	ND	ND	0.4	0.033	1.9	ND	ND	0.16
2003006-017	0.0048	ND	ND	ND	0.1470	ND	ND	0.013	ND	0.053	ND	ND	0.0046
2003006-018	0.37	0.016	ND	ND	9.3140	0.12	ND	0.58	0.073	3.1	ND	0.035	0.28
2003006-019	0.0048	ND	ND	ND	0.1411	ND	ND	0.013	ND	0.056	ND	ND	0.004
2003006-020	0.38	0.016	ND	ND	9.1420	0.19	ND	0.51	0.08	3.2	ND	0.034	0.25

					Sum of 12						
					WHO	Solids					Weight
Sample #	BZ.157	BZ.167	BZ.169	BZ.189	Congeners	%	Cadmium	Chromium	Copper	Lead	g - wet
2003006-001	ND	ND	ND	ND	0.0073	21.9	0.045	ND	30	ND	336
2003006-002	0.039	ND	ND	ND	1.7120	33	5.62	ND	59	ND	49
2003006-003	ND	ND	ND	ND	0.0064	21.7	0.067	ND	29	ND	436
2003006-004	0.059	0.1	ND	ND	1.8520	38.2	6.6	ND	254	ND	56
2003006-005	ND	ND	ND	ND	0.0116	17.7	0.085	ND	23	ND	381
2003006-006	0.1	0.19	ND	ND	2.8380	30.5	4.8	ND	328	ND	44
2003006-007	ND	ND	ND	ND	0.0068	21.9	0.039	ND	29	ND	443
2003006-008	0.054	0.11	ND	ND	1.7340	36.1	7.52	0.126	149	ND	56
2003006-009	ND	ND	ND	ND	0.0129	19.6	0.034	0.016	29	ND	499
2003006-010	0.059	0.12	ND	ND	2.2520	34.9	7	ND	328	ND	67
2003006-011	ND	ND	ND	ND	0.0201	20.6	0.032	ND	28	ND	573
2003006-012	0.065	0.13	ND	ND	2.7540	33.4	5.4	ND	420	ND	77
2003006-013	ND	ND	ND	ND	0.0164	22	0.022	ND	34	ND	516
2003006-014	0.034	0.074	ND	ND	0.8450	30.3	5.26	ND	158	ND	82
2003006-015	ND	ND	ND	ND	0.0084	23.2	0.038	ND	31	ND	557
2003006-016	0.067	0.12	ND	ND	2.6800	37.7	5.1	ND	337	ND	80
2003006-017	0.0015	0.0029	ND	ND	0.0750	19.6	0.019	ND	25	ND	427
2003006-018	0.1	0.2	ND	0.018	4.5060	25.4	4.1	ND	505	ND	60
2003006-019	0.0013	0.0029	ND	ND	0.0772	18.2	0.024	ND	24	ND	343
2003006-020	0.075	0.2	ND	0.014	4.5530	26.4	1.56	ND	230	ND	51

	(	Closure		Sum of 28	Sum of 5	Lipids	Aroclor	Aroclor	Aroclor	Aroclor
SAMPLE #	Species	Area	Location	Congeners	<b>Aroclors</b>	%	1232	1242	1248	1254
2003006-021	Winter Flounder	1	A: W-Barrier Open	0.45	0.56	0.14	ND	0.088	ND	0.44
2003006-022	Winter Flounder	l	B: 195 Overpass	1.55	2.84	0.18	ND	8.0	ND	1.9
2003006-023	American Eel	1	A:195 Overpass	52.39	70.90	9.3	ND	5.4	ND	62
2003006-024	American Eel	1	B: W lighthouse	13.63	10.72	8.5	ND	0.24	ND	9.6
2003006-025	American Eel	1	C: SW Culvert	15.59	13.70	5.1	ND	0.78	ND	12
2003006-026	American Eel	1	D: Marina	3.66	2.16	2	ND	0.56	ND	1.3

ND = Not detected

	Arocior													
SAMPLE #	1260	<b>BZ.8</b>	BZ.18	BZ. 28	BZ.44	BZ.52	<b>BZ.66</b>	BZ.101	BZ.128	BZ.138	BZ.153	BZ.170	BZ.180	<b>BZ.187</b>
2003006-021	0.034	0.0014	0.0061	0.034	0.0015	0.015	0.034	0.018	0.0092	0.052	0.075	0.0044	0.0077	0.0045
2003006-022	0.14	0.019	0.049	0.28	0.035	0.14	0.088	0.16	0.017	0.1	0.15	0.01	0.02	0.02
2003006-023	3.5	ND	0.3	2.3	2.2	8.4	3.2	6.5	0.75	4.4	6.1	0.4	0.66	0.72
2003006-024	0.88	ND	ND	0.38	0.27	1.5	0.73	1.7	0.25	1.5	1.1	0.098	0.22	0.17
2003006-025	0.92	ND	0.052	0.36	0.33	1.4	0.73	1.9	0.28	1.6	2.1	0.097	0.21	0.18
2003006-026	0.3	ND	0.05	0.07	0.047	0.28	0.075	0.18	0.056	0.51	0.67	0.041	0.062	0.05

Sum	of	16
- 1	NO	AA

SAMPLE #	BZ.195	BZ.206	BZ.209	Congeners	BZ.77	<b>BZ.81</b>	BZ.105	BZ.114	BZ.118	BZ.123	BZ.126	BZ.156	BZ.157
2003006-021	ND	ND	ND	0.2628	0.002	ND	0.013	ND	0.07	ND	ND	0.0055	0.0014
2003006-022	0.0019	0.0015	ND	1.0914	0.009	ND	0.03	0.0047	0.16	ND	ND	0.012	0.0029
2003006-023	ND	ND	ND	35.9300	ND	ND	0.57	0.19	6.5	ND	ND	0.5	0.13
2003006-024	ND	ND	ND	7.9180	ND	ND	0.45	ND	2.1	ND	ND	0.15	0.047
2003006-025	ND	ND	ND	9.2390	ND	ND	0.57	ND	2.3	ND	ND	0.15	0.045
2003006-026	ND	ND	ND	2.0910	0.018	ND	0.11	ND	0.56	ND	ND	0.05	0.014

Sum of 14

				WHO	Abnor-				l	ength		Solids	Weight
SAMPLE #	BZ.167	BZ.169	BZ.189	Congeners	malities	Cadmium	Chromium	Copper	Lead	cm	Sex	%	g - wet
2003006-021	0.0035	ND	ND	0.0956	None	ND	0.068	3.1	ND	29	Female	21.4	282
2003006-022	0.009	ND	ND	0.2272	None	ND	0.08	1.56	ND	27	Female	20.7	213
2003006-023	0.34	ND	ND	8.2300	None	ND	ND	0.12	ND	73	Unknown	30.8	830
2003006-024	0.11	ND	ND	2.8570	None	ND	0.066	1	ND	73	Unknown	20.9	764
2003006-025	0.11	ND	ND	3.1750	None	ND	ND	0.14	ND	43	Unknown	25.4	117
2003006-026	0.031	ND	ND	0.7830	None	ND	0.032	0.61	ND	57	Unknown	25.7	314

COPPER	Closure Area	Tomalley?	sample 1	sample 2	sample 3	sample 4	sample 5	Average	Standard Deviation
Flounder	1		3.100	1.560				2.330	1.089
Eel	1		0.120	1.000	0.140	0.610		0.468	0.502
Lobster	-  1  1	tail & claw tomalley only combined	28.000 420.000 74.000	34.000 158,000 51.000	31.000 337.000 69.000	25.000 505.000 84.000	24.000 230.000 51.000	28.400 330.000 65.800	4.159 139.962 14.550
	111 111 111	tail & claw tomalley only combined	30.000 59.000 34.000	29.000 254.000 55.000	23.000 328.000 55.000	29.000 149.000 42.000	29.000 328.000 64.000	28.000 223.600 50.000	2.828 117.666 11.895
Quahog	(    		2.950 1.750 2.370	2.860 0.734 1.970	7.100 2.330 1.700	3.680 1.670 1.200	4.080 2.160 1.750	4.134 1.729 1.798	1.734 0.621 0.426
CHROMIUM									
Flounder	Ţ		0.068	0.080				0.074	0.008
Eel	Ĩ		nd	0.066	nd	0.032		0.049	0.024
Lobster	## ## ##	tail & claw tomalley only combined tail &claw	nd nd na nd	nd nd na nd	nd nd na nd	nd nd na nd	nd nd na 0.016	na na na na	na na na na
	111 111	tomalley only combined	nd na	nd na	nd na	0.126 na	nd na	na na	na na
Quahog	    		0.277 0.350 0.257	0.315 0.169 0.102	0.617 0.339 0.097	0.458 0.293 0.061	0.633 0.296 0.383	0.460 0.289 0.180	0.165 0.072 0.136

CADMIUM	Closure Area	Tomalley?	sample 1	sample 2	sample 3	sample 4	sample 5	Average	Standard Deviation
Flounder	1		nd	nd				na	na
Eel	1		nd	nd	nd	nd		na	na
Lobster	       	tail & claw tomalley only combined tail & claw tomalley only	0.032 5.400 0.668 0.045 5.620	0.022 5.260 0.740 0.067 6.600	0.038 5.100 0.674 0.085 4.800	0.019 4.100 0.522 0.039 7.520	0.024 1.560 0.223 0.034 7.000	0.027 4.284 0.565 0.054 6.308	0.008 1.606 0.207 0.021 1.093
	Ш	combined	0.755	0.811	0.573	0.879	0.859	0.775	0.123
Quahog	    		0.066 0.064 0.054	0.084 0.033 0.084	0.098 0.141 0.063	0.071 0.065 0.083	0.112 0.052 0.109	0.086 0.071 0.079	0.019 0.041 0.021
LEAD									
Flounder	1.0		nd	nd				na	na
Eel	Ī		nd	nd	nd	nd		na	na
Lobster	           	tail & claw tomalley only combined tail & claw tomalley only combined	nd nd na nd nd na	nd nd na nd nd na	nd nd na nd nd na	nd nd na nd nd na	nd nd na nd nd	na na na na na na	na na na na na na
Quahog	1 11 111	,= =	1.020 0.389 0.830	0.972 0.086 0.377	1.800 0.189 0.075	1.370 0.201 0.096	1.370 0.462 0.300	1.306 0.265 0.336	0.334 0.155 0.305

nd = non-detect

na = not applicable

Table 5 - Calculation of PCBs in tomalley, tail and claw meat, Area II

Aroclor metho	od								products divided by total wt.)
				ppm	wt			sum of	
sample #	ppm meat	wt meat	product	tomalley	tomalley	product	total wt	products	total conc.
006-011/12	0.01	573	5.73	1.79	77	137.83	650	143.56	0.22
006-013/14	0.05	516	25.8	1.72	82	141.04	598	166.84	0.28
006-015/16	0.062	557	34.534	1.92	80	153.6	637	188.134	0.3
006-017/18	0.163	427	69.601	5	60	300	487	369.601	0.76
006-019/20	0.083	343	28.469	8.2	51	418.2	394	446.669	1.13
								avg	0.538
Congener me	thod							J	
006-011/12	0.063	573	36.099	8.443	77	650.111	650	686.21	1.06
006-013/14	0.0494	516	25.4904	3.219	82	263.958	598	289.4484	0.48
006-015/16	0.0367	557	20.4419	7.9	80	632	637	652.4419	1.02
006-017/18	0.222	427	94.794	13.82	60	829.2	487	923.994	1.9
006-019/20	0.2183	343	74.8769	13.695	51	698.445	394	773.3219	1.96
								avg	1.284

(sum of

Table 6 - Calculation of tomalley, tail and claw meat, Area III

				g.					products divided by
Aroclor metho	d								total wt.)
				ppm	wt.			sum of	
Sample #	ppm meat	wt meat	product	tomalley	tomalley	product	total wt	products	total conc.
006-001/2	0.01	336	3.36	1.56	49	76.44	385	79.8	0.2072727
006-003/4	0.01	436	4.36	2.17	56	121.52	492	125.88	0.2558537
006-005/6	0.01	381	3.81	2.95	44	129.8	425	133.61	0.3143765
006-007/8	0.01	443	4.43	0.48	56	26.88	499	31.31	0.0627455
006-009/10	0.01	499	4.99	1.47	67	98.49	566	103.48	0.1828269
					a			avg	0.204615
congener met	hod								76
006-001/2	0.04	336	13.44	5.448	49	266.952	385	280.392	0.7282909
006-003/4	0.02	436	8.72	6.099	56	341.544	492	350.264	0.7119187
006-005/6	0.04	381	15.24	9.507	44	418.308	425	433.548	1.0201129
006-007/8	0.02	443	8.86	6.148	56	344.288	499	353.148	0.7077114
006-009/10	0.04	499	19.96	7.505	67	502.835	566	522.795	0.9236661
								avg	0.81834

(sum of

## Appendix A



Commonwealth of Massachusetts
Executive Office of Environmental Affairs
Department of Environmental Protection
Senator William X. Wall Experiment Station

### Sample Tracking/ Chain-of-Custody Record

Cooler Temperature at Receipt	70	°C
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WES Sample Log-In # シュッション ション ション とっちゅう マング

### **Project Description**

Name: DEP/EPA Eish

Site Name: New Bedford Hbr

RTN:

Case #:

Coordinator O. Pancorbo

### Region-Bureau-Division

NERO \_\_ SERO CERO WERO

Bureau:

Division: DRR- - Les

Phone:

Fax:

Analytical Laboratory
(for samples sent to a
laboratory other than WES)

Name:
Address:

Contact:
MA Cert#

Phone#

Field Locator	Client ID	Lab#	Collec	tion	Rece	ipt 💮 🕒	納。海州	Samp	<b>9</b>		Chlorine	
(within Site)	(Field #)	(Log-In # above plus # below)	Date	Time	Date "	Time	G/C*	Matrix**	Preservative	Collector	Residual (yes/no)	Analysis Requested
New Bedford Hbr	NBH02						G	FBT	FROZEN	MDMF	No	1013
SEE ATTHCHED							G	FBT		Descen	No	
SAMPLE DATA							G	FBT			No	
DHEETS						ļ 	G	FBT			No	
					·		G	FBT			No	
							G	FBT			No	
							G	FBT			No	
							G	FBT	}		No	$\searrow$

\*G/C = Grab/Composite

Chain of Custody:	(signatures required only fo	r COC)							
	Relinquished by								
Printed name	Signature 1/	Org.	Date	Time	Printed name	Signature	Org.	Date	Time
DAVIDE LOUITTE	aren found & With	- MOINF	01/05/03	07:30	MATT CAMITSA	Water Com	- One	13.	-
1/45 - 1-411-514	Mit I uni	- MDMF	0/00/03	10.00	Carol Batdort	- Carol / Bathan	1 020	1/3/63	7.5
				Ţ		1		1	

#### \*\* MATRIX CODES

AC = Air Canister ACT = Air Cartridge Tube

ACT = Air Cartridge Tube AF = Air Filter DW = Drinking Water FBT = Fish/Biological Tissue FEC = Feces/Fecal Matter

GRYW = Grey Water GW = Ground Water IWW = Industrial Wastewater

LL = Landfill Leachate

LW = Liquid Waste
ME = Marine/Estuarine Water

SED =-Sediment

SOIL = Soil SRW = Surface Water

STW = Storm water/CSO

SW = Solid Waste

UN = Unspecified Water/Wastewater

WO = Waste Oil
WW = POTW Wastewater

WWS = Wastewater Sludge

### FIELD COLLECTION FORM: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER MARINE FISHERIES STATION, 30 EMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH02 REQUESTED BY/AGENCY: Oscar Pancorbo / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: DONE WHITTAKER SHIPPER: SAMPLE CONDITION: FRESH FROZEN V

	, .	·	T	<del></del>		T	2003005-
COLLECTION DATE DDMMYY	COLLECTION/TAG#	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION Site	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
19-06-02	O1	13 QUAHOGS	Station	Area	41-36-1812 N 70-55-1305 W	RAKE	001
14-06-02	O.A.	13 QUAHO65	B	I	41-35-, 450 N 70-55-, 742 W	RAKE	00 R
19-06-02	03	14 QUAHOGS	С	工	41-35- 1846N 70-54- 1120 W	RAKE	003
19-06-07	04	14 QUAHOGS	D	工	41-36-:745 N 70-53-1263 W	RAKE	004
19-06-02	05	20 QUAHOGS	E	正	41-36-1894 N 70-54-1534 W	RAKE	005
19-06-02	06	16 QUAHOGS	Α	T	41-37-401 N 76-54-1617 W	RAKE	006
14-06-03	07	14 QUAHOGS	B	I	41-37-,33c N 70-54-,847 W	RAKE	007
19-06-02	08	14 QUAHOGS	C	I	41-38-1251 N 70-54-1646 W	RAKE	008
19-06-03	69	13 QUAHOGS	D	I	41-38-,773 N 70-54-,688 W	RAKE	009
19-06-02	10	16 QUAHOGS	E	I	41-39-1172 N 70-55-10.58 N	RAKE	010

### FIELD COLLECTION FORM: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER MARINE FISHERIES STATION, 30 EMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH02 REQUESTED BY/AGENCY: Oscar Pancorbo / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: DAUE WHITTAKES SHIPPER: SAMPLE CONDITION: FRESH FROZEN 2005-

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
19-5-62	H	18 QUAHUGS	A	III	41-35- :41 N 70-57- 112 W	BULL RAKE TONGS	Cº 17
19-8-02	12	20 QUAHOGS	3	皿	41-35-,35N 70-57-161 W	BULL RAKE TONCS	012
29-8-02	13	18 QUAHOES	C		41-35-,60 N 70-50-175 W	RAKE	013
9-9-02	14	18 QUAHOGS	D	亚	41-34-,8 No 70-56-6 W	BULL RAKE	014
11-9-02	15	18 QUAHOGS	E	III	41-34-125N 70-53-175W	HYDROCIC DRED GE	015

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:         2003005-001           Sample Field ID#:         01	Site: AREA II Locator: Station A				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Cadmium	0.064	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed
Chromium	0.35	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed
Copper	1.8	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed
Lead	0.39	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed
Surrogate			Acceptan	ce Criteri	<u>a</u>				
PCNB	86	% Recovery	60	- 140	Modified AC	DAC 983.21	03/24/2003 12:0	00 AM Appro	ved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB A1242	0.045 M	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	DAC 983.21	03/24/2003 12:0	00 AM Approv	ved
PCB A1254	0.016 M	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	03/24/2003 12:0	OAM Approv	/ed
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	DAC 983.21	03/24/2003 12:0	00 AM Approv	ved .
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/24/2003 12:0	00 AM Approv	ved .
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 118	0.0071	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/24/2003 12:	OO AM Appro	ved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified A	DAC 983.21	03/24/2003 12:	OO AM Appro	ved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:	OO AM Approv	ved
PCB Toxic Congener BZ# 180	0.0015 M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/24/2003 12:	00 AM Approv	ved
PCB Congener BZ# 8	0.0011 M	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/24/2003 12:	00 AM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X, WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

					•	•			
Sample Lab ID#: 2003005-001 Sample Field ID#: 01	Site: AREA II Locator: Station A				Matrix: Collector:	FBT Whittaker, D	Collect Date: 06/19 Receive Date: 01/03		
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>	
PCB Congener BZ# 18	0.0050	ug/g wet	0.0016	0.0048	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 44	0.0017 M	ug/g wet	0.0010	0.0030	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 52	0.0050 M	ug/g wet	0.0022	0.0066	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 66	0.0051 M	ug/g wet	0.0022	0.0066	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 101	0.0075	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 128	ND	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 138	0.0059	ug/g wet	0.0017	0.0051	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 153	0.0085	ug/g wet	0.0014	0.0042	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified AC	AC 983.21	03/24/2003 12:00 AM Approv		
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	AC 983.21	03/24/2003 12:00 AM	Approved	
Lipid Concentration	0.32	%			Modified AC	OAC 983.21	03/24/2003 12:00 AM	Approved	
Solid Concentration	12	%			Modified AC	OAC 950.46B	05/08/2003 1:00 PM	Approved	
Species	Quahog				Fish Proces	sing SOP	02/27/2003 12:00 AM	Approved	
Weight	618	g wet			Fish Proces	sing SOP	02/27/2003 12:00 AM	Approved	
Sample Lab ID#: 2003005-001A	Site: AREA II		***************************************		Matrix:	FBT	Collect Date: 06/19	/2002 12:00 PM	
Sample Field ID#: 01A	Locator: Station A				Collector:	Whittaker, D	Receive Date: 01/03	/2003 9:55 AM	
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>	
Length 92.2					Fish Proces	sing SOP	02/27/2003 12:00 PM Approved		
Abnormalities	None				Fish Proces	sing SOP	02/27/2003 12:00 PM	Approved	

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

\_\_\_\_\_

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact.							oject occiani	iator. Faul Classey			
Sample Lab ID#: Sample Field ID#:	2003005-001B 01B	Site: Locator:	AREA II Station A				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus_
Length		57.	5	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-001C	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01C	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	<del></del>	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		78.	•	mm			Fish Proce	•	02/27/2003 12:0	• • •	
Abnormalities		Nor	ne ·				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Appro	ved
Sample Lab ID#:	2003005-001D	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01D	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Length		92.	2	mm			Fish Processing SOP		02/27/2003 12:00 PM Approved		ved
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:00 PM Approved		ved
Sample Lab ID#:	2003005-001E	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01E	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		84.	1	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Appro	ved
Abnormalities		Noi	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Sample Lab ID#:	2003005-001F	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01F	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		66.	5	mm			Fish Proce	i COD	02/27/2003 12:0	30 DIA A	.ad

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 4 of 82

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-001F	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01F	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u></u>	Re	sult	Units	MDL	RDL	Method		Analysis Date	St	atus .
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-001G	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01G	Locator.	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		106	5.0	mm	•		Fish Proces	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-001H	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01H	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		80.	4	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	/ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:00 PM Approved		/ed
Sample Lab ID#:	2003005-0011	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	011	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Re	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Length		90.	.3	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	/ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	/ed
Sample Lab ID#:	2003005-001J	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	01J	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		71.	.1	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	/ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

<b>J</b>				• • • •	ojoot oootan	acon cramo,			
Sample Lab ID#: 2003005-001J	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 01J	Locator: Station A	4			Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#: 2003005-001K	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 01K	Locator: Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	90.1	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities	None		,		Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#: 2003005-001L	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 01L	Locator: Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	100.5	mm			Fish Proce	ssing SOP	02/27/2003 12:00 PM Approved		
Abnormalities	None				Fish Processing SOP		02/27/2003 12:00 PM Approved		ved
Sample Lab ID#: 2003005-002	Site: AREA II	<del></del>			Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 02	Locator: Station B		11.		Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Cadmlum	0.033	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	ved
Chromium	0.17	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Copper	0.73	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Appro	ved
Lead	0.086 M	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:	30 AM Appro	ved
Surrogate			Acceptar	nce Criter	la				
PCNB	90	% Recovery	60	- 140	Modified A	OAC 983.21	03/24/2003 12:0	00 AM Appro	oved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/24/2003 12:0	OO AM Approv	ved
PCB A1242	0.046 M	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/24/2003 12:0	OO AM Approv	ved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified A	OAC 983.21	03/24/2003 12:0	OO AM Appro	ved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified A	OAC 983.21	03/24/2003 12:0	OO AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified of

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

B = Analyte detected in sample, and in LRB and/or

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X, WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

<b>Sample Lab ID#:</b> 2003005-002 <b>Sample Field ID#:</b> 02	Site: AREA II Locator: Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: 06/ Receive Date: 01/	/19/2002 12:00 P /03/2003 9:55 A
Analyte/Compound	Result	Units	MDL	RDL.	Method		Analysis Date	<u>Status</u>
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified A0	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 118	0.0057	ug/g wet	. 0.0012	0.0036	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified A0	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 156	0.0036	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified A0	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 18	0.0046 M	ug/g wet	0.0016	0.0048	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 52	0.0043 M	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 66	0.0040 M	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 101	0.0058 M	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 128	ND	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 138	0.0047 M	ug/g wet	0.0017	0.0051	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 153	0.0071	ug/g wet	0.0014	0.0042	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:00 A	M Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: Sample Field ID#:	2003005-002 02	Site: Locator:	AREA II Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compou		Res		Units	MDL	RDL	Method		Analysis Date		
PCB Congener B	<del></del>	ND	<u> </u>	ug/g wet	0.0011	0.0033		OAC 983.21	Analysis Date Status 03/24/2003 12:00 AM Approved		
PCB Congener B		ND		ug/g wet	0.0011	0.0036		OAC 983.21	03/24/2003 12:0	• • •	
PCB Congener B		ND		ug/g wet	0.0014			OAC 983.21	03/24/2003 12:0	• • •	
Lipid Concentration		0.28	3	%	0.0011	0.0012		OAC 983.21	03/24/2003 12:0		
Solid Concentration		11		%				OAC 950.46B	05/08/2003 1:00	٠.	
Species	011		ahog	,0			Fish Proces		02/27/2003 12:0		
Weight		541	-	g wet			Fish Proce	•	02/27/2003 12:0	• • •	
Sample Lab ID#:	2003005-002A	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02A	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	ınd	<u>Result</u>		<u>Units</u>	MDL	RDL	Method		Analysis Date Statu		atus
Length		65.	1	mm			Fish Processing SOP		02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Processing SOP		02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-002B	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02B	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>ınd</u>	Res	ult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		90.4	4	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Sample Lab ID#:	2003005-002C	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02C	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	ınd	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		81.3	3	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

QCS = Quality Control Sample (external to lab)

NA = Not applicable

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS) Report Print Date: 06/26/2003

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS

### WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

achuir Donaut far Lagin Bataba

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: Sample Field ID#:	2003005-002D 02D	Site: Locator:	AREA II Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	Units	MDL	RDL	Method		Analysis Date	St	atus
Length		79.2	2	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-002E	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02E	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>	, , , , , , , , , , , , , , , , , , , ,	Analysis Date	St	atus
Length		77.0	0	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-002F	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02F	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		84.0	3	mm			Fish Processing SOP		02/27/2003 12:00 PM Approved		/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:00 PM Approved		/ed
Sample Lab ID#:	2003005-002G	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	.02G	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	Units	MDL	RDL	Method		Analysis Date	St	atus .
Length		70.	1	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-002H	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02H	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		73.0	3	mm			Fish Proce	ssing SOP	02/27/2003 12:0	O PM Approx	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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H = USEPA holding time exceeded

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N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

NA = Not applicable

Page 8 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

**Contact:** 

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:	2003005-002H	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02H	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-0021	Site:	AREA II			·	Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	021	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	<u>atus</u>
Length		77.	1	mm	•		Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ved .
Sample Lab ID#:	2003005-002J	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02J	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Length		87.	5	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-002K	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02K	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		94.:	3	mm			Fish Proce	ssing SOP	02/27/2003 12:0	JO PM Appro	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ved
Sample Lab ID#:	2003005-002L	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	02L	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
			_						00/07/0000 40		
Length	,	97.8	8	mm			Fish Proce	ssing SOP	02/27/2003 12:	DOPM Approv	/ea

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

#### Page 10 of 82

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact:

**Project Coordinator:** Paul Craffey

Contact:			Project Goordinator: Faui Clailey										
Sample Lab ID#: Sample Field ID#:	2003005-002L 02L	Site: Locator:	AREA II Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM		
Sample Lab ID#:	2003005-003	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM		
Sample Field ID#:	03	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM		
Analyte/Compour	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus		
Cadmium		0.14	4	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed		
Chromium		0.34	4	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	ved .		
Copper		2.3		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed		
Lead		0.19	9	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:	30 AM Approv	ved		
Surroga	<u>ite</u>			Ŀ	cceptan	ce Criteri	<u>a</u>						
PCNB			85	% Recovery	60	- 140	Modified A	OAC 983.21	03/24/2003 12:	00 AM Appro	ved		
PCB A1232		ND		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB A1242		0.14	4	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	/ed		
PCB A1248		ND		ug/g wet	0.038	0.11	Modified A	DAC 983.21	03/24/2003 12:	00 AM Approv	ved .		
PCB A1254		0.2	7	ug/g wet	0.013	0.039	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	/ed		
PCB A1260		0.0	23 M	ug/g wet	0.022	0.066	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 77	0.0	033 J	ug/g wet	0.0008	0.0024	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
Compound qua	antitiated from sec	condary colum	n. No MDL g	enerated from se	condary	column.							
PCB Toxic Conge	ner BZ# 81	0.0	047	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 105	ND		ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 114	ND		ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 118	0.0	15	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 123	ND		ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 126	ND		ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 156	ND		ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 157	ND		ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 167	ND		ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		
PCB Toxic Conge	ner BZ# 169	ND		ug/g wet	0.0006	0.0018	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approv	ved		

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

					-	•		
Sample Lab ID#: 2003005-003 Sample Field ID#: 03	Site: AREA II Locator: Station C				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 12:00 PM 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Status
PCB Toxic Congener BZ# 170	0.0021 M	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Toxic Congener BZ# 180	0.0045	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 8	0.0011 M	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 18	0.016	ug/g wet	0.0016	0.0048	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 28	0.025	ug/g wet	0.0033	0.0099	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 44	0.017	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 52	0.036	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 66	0.025	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 101	0.025	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 128	0.0035 M	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 138	0.023	ug/g wet	0.0017	0.0051	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 153	0.023	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 187	0.0041 M	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
Lipid Concentration	0.57	%			Modified A	OAC 983.21	03/24/2003 12:	00 AM Approved
Solid Concentration	16	%			Modified A	OAC 950.46B	05/08/2003 1:0	PM Approved
Species	Quahog				Fish Proces	ssing SOP	02/27/2003 12:	00 AM Approved
Weight	506	g wet			Fish Proce	ssing SOP	02/27/2003 12:	00 AM Approved
Sample Lab ID#: 2003005-003A	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002 12:00 PM
Sample Field ID#: 03A	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AN
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		<b>Analysis Date</b>	Status

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

QCS = Quality Control Sample (external to lab)

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003005-00 Sample Field ID#: 03A	3A Site: AREA II Locator: Station C				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 12:00 PM 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Status
Length	76.4	mm			Fish Proce	ssina SOP		00 PM Approved
Abnormalities	None				Fish Proce	•		00 PM Approved
Sample Lab (D#: 2003005-00	3B Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002 12:00 PM
Sample Field ID#: 03B	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	93.5	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-00	3C Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002 12:00 PM
Sample Field ID#: 03C	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	88.6	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-00	3D Site: AREA II			_	Matrix:	FBT	Collect Date:	06/19/2002 12:00 PM
Sample Field ID#: 03D	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	Status
Length	77.2	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-0	3E Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002 12:00 PM
Sample Field ID#: 03E	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	92.4	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Page 13 of 82

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

						-,	,			
Sample Lab ID#: Sample Field ID#:	2003005-003E 03E	Site: AREA II Locator: Station C				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:		2:00 PM 9:55 AM
Analyte/Compour Abnormalities	<u>nd</u>	Result None	<u>Units</u>	MDL	RDL	<u>Method</u> Fish Proce	ssing SOP	<u>Analysis Date</u> 02/27/2003 12:0	Statu: 0 PM Approved	<u>s</u>
Sample Lab ID#: Sample Field ID#:	2003005-003F 03F	Site: AREA II Locator: Station C				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:		2:00 PM 9:55 AM
Analyte/Compount Length Abnormalities	nd	Result 77.7 None	<u>Units</u> mm	MDL	RDL	<u>Method</u> Fish Proce Fish Proce	ssing SOP		Statu 00 PM Approved 00 PM Approved	_
Sample Lab ID#: Sample Field ID#:	2003005-003G 03G	Site: AREA II Locator: Station C				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:		2:00 PM 9:55 AM
Analyte/Compount Length Abnormalities	n <u>d</u>	Result 94.4 None	<u>Units</u> mm	MDL	RDL		ssing SOP		Statu 00 PM Approved 00 PM Approved	_
Sample Lab ID#: Sample Field ID#:	2003005-003H 03H	Site: AREA II Locator: Station C				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:		2:00 PM 9:55 AM
Analyte/Compount Length Abnormalities	nd	Result 85.2 None	<u>Units</u> mm	MDL	RDL		essing SOP essing SOP		Statu 00 PM Approved 00 PM Approved	
Sample Lab ID#: Sample Field ID#:	2003005-003I 03I	Site: AREA II Locator: Station C		-		Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:		2:00 PM 9:55 AM
Analyte/Compount Length Abnormalities	<u>nd</u>	Result 70.2 None	<u>Units</u> mm	MDL	RDL		essing SOP essing SOP		Statu 00 PM Approved 00 PM Approved	_

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (ΠC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

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LB = Laboratory Blank (equiv. Method Blank) LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

#### Page 14 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Oontaot.						• • •	-,				
Sample Lab ID#:	2003005-0031	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	031	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-003J	Site:	AREA II			•	Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	03J	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		87.	1	mm			Fish Proces	sing SOP	02/27/2003 12:0	00 PM Approv	ed ed
Abnormalities		No	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ed ·
Sample Lab ID#:	2003005-003K	Site:	AREA II		·	-	Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	03K	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length		77.	5	mm			Fish Proces	sing SOP	02/27/2003 12:0	00 PM Approv	⁄ed
Abnormalities		No	ne				Fish Proces	sing SOP	02/27/2003 12:0	00 PM Approv	ved .
Sample Lab ID#:	2003005-003L	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	03L	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		69.	.6	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		No	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-004	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	04	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Cadmium		0.0	65	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	/ed
Chromium		0.2	9	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	/ed
Copper		1.7	•	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	/ed
Lead		0.2	.0	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:3	30 AM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

QCS = Quality Control Sample (external to lab)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X, WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

AREA II **FBT** 12:00 PM Sample Lab ID#: 2003005-004 Site: Matrix: Collect Date: 06/19/2002 Sample Field ID#: 04 Locator: Station D Collector: Whittaker, D Receive Date: 01/03/2003 9:55 AM

Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>	Analysis Date	<u>Status</u>
Surrogate		E	<b>Acceptan</b>	ce Criteria	!		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
PCNB	84	% Recovery	60	- 140	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB A1242	0.12	ug/g wet	0.019	0.057	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB A1254	0.14	ug/g wet	0.013	0.039	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	0.0086	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	0.0011 M	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	0.0023 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Congener BZ# 18	0.014	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.022	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Congener BZ# 44	0.016	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved
PCB Congener BZ# 52	0.029	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/24/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

Prepared For:

Contact:

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch:

**BWSC DIV RESPONSE & REMEDIATION** 

2003005

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact.		Floject Coordinator. Faul Oraney							
Sample Lab ID#: 2003005-004 Sample Field ID#: 04	Site: AREA II Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	_	atus
PCB Congener BZ# 66	0.022	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:	OO AM Approv	/ed
PCB Congener BZ# 101	0.013	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:	00 AM Approv	/ed
PCB Congener BZ# 128	0.0014 M	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/24/2003 12:	OO AM Approv	/ed
PCB Congener BZ# 138	0.0099	ug/g wet	0.0017	0.0051	Modified A	DAC 983.21	03/24/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 153	0.013	ug/g wet	0.0014	0.0042	Modified A	DAC 983.21	03/24/2003 12:	00 AM Approv	/ed
PCB Congener BZ# 187	0.0025 M	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/24/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	DAC 983.21	03/24/2003 12:	00 AM Approv	/ed
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/24/2003 12:	OO AM Approv	ved .
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	DAC 983.21	03/24/2003 12:	OO AM Approv	/ed
Lipid Concentration	0.39	%			Modified A	DAC 983.21	03/24/2003 12:	OO AM Approv	/ed
Solid Concentration	13	%			Modified A	OAC 950.46B	05/08/2003 1:0	PM Approv	/ed
Species	Quahog				Fish Proces	ssing SOP	02/28/2003 12:	OO AM Approv	/ed
Weight	576	g wet			Fish Proces	ssing SOP	02/28/2003 12:	OO AM Approv	ved .
Sample Lab ID#: 2003005-004A	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 04A	Locator: Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date		atus
Length	87.8	mm			Fish Proces	ssing SOP	02/28/2003 12:	00 PM Appro	ved
Abnormalities	None				Fish Proces	ssing SOP	02/28/2003 12:	00 PM Appro	ved
Sample Lab ID#: 2003005-004B	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 04B	Locator: Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	104.4	mm			Fish Proces	ssing SOP	02/28/2003 12:	00 PM Approv	ved
Abnormalities	None				Fish Proces	ssing SOP	02/28/2003 12:	00 PM Appro	ved .

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

J = Other QC criteria not met (see comments)

H = USEPA holding time exceeded

(TIC) - no standard available for quantitation R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

B = Analyte detected in sample, and in LRB and/or

N = GC/MS non-target tentatively identified compound

trip blank or no trip blank was collected

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Prepared For:

### Page 17 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch:

2003005

**BWSC DIV RESPONSE & REMEDIATION Project Name:** 

New Bedford Harbor Fish

Contact:				Pr	oject Coordin	ator: Paul Craffey			
Sample Lab ID#: 2003005-004C Sample Field ID#: 04C	Site: AREA II Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	86.0	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	ved .
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#: 2003005-004D	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 04D	Locator: Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound Length Abnormalities	<u>Result</u> 86.7 None	<u>Units</u> mm	MDL	RDL	Method Fish Proce Fish Proce	•	Analysis Date 02/28/2003 12:0 02/28/2003 12:0	00 PM Approv	
Sample Lab ID#: 2003005-004E Sample Field ID#: 04E	Site: AREA II Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound Length Abnormalities	Result 86.2 None	<u>Units</u> mm	MDL	RDL	Method Fish Proce Fish Proce	•			
Sample Lab ID#: 2003005-004F	Site: AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 04F	Locator: Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound Length Abnormalities	Result 95.8 None	<u>Units</u> mm	MDL	RDL	<u>Method</u> Fish Proce Fish Proce	ssing SOP ssing SOP	Analysis Date 02/28/2003 12: 02/28/2003 12:	00 PM Approv	
Sample Lab ID#: 2003005-004G Sample Field ID#: 04G	Site: AREA II Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length	82.2	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded J = Other QC criteria not met (see comments) B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

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QCS = Quality Control Sample (external to lab)

#### Page 18 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

03005-004G	Site: AREA II								
G	Locator: Station D	)			Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
	<u>Result</u> None	<u>Units</u>	MDL	RDL	<u>Method</u> Fish Proce		Analysis Date 02/28/2003 12:0		atus red
03005-004H H	Site: AREA II Locator: Station E	)			Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
	<u>Result</u> 93.8 None	<u>Units</u> mm	MDL	RDL		-		00 PM Approv	
03005-0041 I	Site: AREA II Locator: Station D	)			Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
	Result 99.0 None	<u>Units</u> mm	<u>MDL</u>	RDL		•		00 PM Approv	
03005-004J J	Site: AREA II Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
	Result 93.2 None	<u>Units</u> mm	<u>MDL</u>	RDL				00 PM Approv	
03005-004K K	Site: AREA II Locator: Station D	)			Matrix: Collector:	FBT Whittaker, D	Collect Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
	<u>Result</u> 97.3 None	<u>Units</u> mm	MDL	RDL				00 PM Approv	
1	03005-0041 I 03005-004J J	None   None   None	None   None	None   None	None	None	None   Fish Processing SOP	None	None

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

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R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Report Print Date: 06/26/2003

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Page 19 of 82

Contact:

**Project Coordinator:** Paul Craffey

							•	•			
Sample Lab ID#:	2003005-004K	Site:	AREA II		····		Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	04K	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-004L	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	04L	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		97.	7	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne		,		Fish Proce	essing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-005	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	05	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Cadmium		0.0	52	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Chromium		0.30	0	mg/Kg wet	0.004	0.012	EPA 200.7	,	04/07/2003 10:3	30 AM Approv	ved
Copper		2.2		mg/Kg wet	0.004	0.012	EPA 200.7	•	04/07/2003 10:3	30 AM Approv	ved
Lead		0.40	6	mg/Kg wet	0.040	0.12	EPA 200.7	,	04/07/2003 10:3	30 AM Approv	ved
Surrog	<u>ate</u>			Ĕ	cceptan	ce Criteri	<u>a</u>				
PCNB			86	% Recovery	60	- 140	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	oved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/25/2003 12:	00 AM Approv	ved
PCB A1242		0.4	1	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ved
PCB A1248		ND		ug/g wet	0.038	0.11	Modified A	OAC 983.21	03/25/2003 12:0	OO AM Approv	ved
PCB A1254		0.59	9	ug/g wet	0.013	0.039	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ved
PCB A1260		0.0	40 M	ug/g wet	0.022	0.066	Modified A	OAC 983.21	03/25/2003 12:0	OO AM Approv	ved
PCB Toxic Conge	ener BZ# 77	ND		ug/g wet	0.0008	0.0024	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ved
PCB Toxic Conge	ener BZ# 81	ND		ug/g wet	0.0010	0.0030			03/25/2003 12:0	00 AM Approv	ved
PCB Toxic Conge	ener BZ# 105	0.0	043	ug/g wet	0.0013	0.0039			03/25/2003 12:0	00 AM Approv	ved
PCB Toxic Conge		ND		ug/g wet	0.0013	0.0039	Modified AOAC 983.21		03/25/2003 12:00 AM Approved		ved
PCB Toxic Conge	ener BZ# 118	0.0	48	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:0	OO AM Approx	ued

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

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LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

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R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003005-005 Sample Field ID#: 05	Site: AREA II Locator: Station E				Matrix: FBT Collector: Whittaker, D	Collect Date: 06/19/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	Analysis Date Status
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0053	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	0.0018 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	0.0024 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.0032 M	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0053	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 8	0.0062	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 18	0.038	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 28	0.055	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 44	0.026	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 52	0.075	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 66	0.048	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 101	0.059	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0056	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 138	0.037	ug/g wet	0.0017	0.0051	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 153	0.019	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 187	0.0058 M	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
Lipid Concentration	0.49	%			Modified AOAC 983.21	03/25/2003 12:00 AM Approved
Solid Concentration	14	%			Modified AOAC 950.46B	05/08/2003 1:00 PM Approved
Species	Quahog				Fish Processing SOP	02/28/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: Sample Field ID#:	2003005-005 05	Site: Locator:	AREA II Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compoun	<u></u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Weight		354		g wet			Fish Proce	ssing SOP	02/28/2003 12:0	00 AM Approv	/ed
Sample Lab ID#:	2003005-005A	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	05A	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		80.4	<b>\$</b>	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	e				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-005B	Site:	AREA II		77 WWW 02 WWW 12 WW		Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	05B	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		73.5	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	10				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved .
Sample Lab ID#:	2003005-005C	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	05C	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>	Res	<u>ult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		93.3	3	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	/ed
Abnormalities		Nor	18				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	/ed
Sample Lab ID#:	2003005-005D	Site:	AREA II	***************************************			Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	05D	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	d	Res	<u>ult</u>	Units	MDL	RDL	Method		Analysis Date	St	atus
Length		77.	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor					Fish Proce	anian COD	02/28/2003 12:0	00 DM 4	

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

stimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

2003005-005D	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
05D	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
2003005-005E	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
05E	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
n <u>d</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus ·
	74.3	3	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved .
	Nor	ne		,		Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
2003005-005F	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
05F	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
<u>nd</u>	Res	<u>sult</u>	Units	MDL	RDL	Method		Analysis Date	St	atus
	78.	1	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
	Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
2003005-005G	Site:	AREA II				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
05G	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus .
	80.4	4	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
	Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
2003005-005H	Site:	AREA II				Matrix:	FBŤ	Collect Date:	06/19/2002	12:00 PM
05H	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
<u>nd</u>	<u>Res</u> 82.	<del></del>	<u>Units</u> mm	MDL	RDL	<u>Method</u> Fish Proce	ssing SOP	Analysis Date 02/28/2003 12:0	_	
	2003005-005E 05E 0d 2003005-005F 05F 0d 2003005-005G 05G 0d	2003005-005E   Site:   Locator:	2003005-005E   Site: AREA    Locator: Station E	2003005-005E   Site: AREA	2003005-005E   Site: AREA	2003005-005E   Site: AREA II   Locator: Station E	2003005-005E   Site: AREA	2003005-005E	2003005-005E   Site: AREA	Description   Collector: Whittaker, D   Receive Date: 01/03/2003

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

•••••										
Sample Lab ID#: 2003005-005  Sample Field ID#: 05	Site: AREA II Locator: Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: 06/19/2002 Receive Date: 01/03/2003	12:00 PM 9:55 AM		
Analyte/Compound Result		<u>Units</u>	MDL	RDL	Method		Analysis Date Sta	tus		
Length	72.1	mm			Fish Processing SOP		02/28/2003 12:00 PM Approved			
Abnormalities	None			Fish Processing SOP		ssing SOP	02/28/2003 12:00 PM Approved			
Sample Lab ID#: 2003005-005J	Site: AREA II				Matrix:	FBT	Collect Date: 06/19/2002	12:00 PM		
Sample Field ID#: 05J	Locator: Station E				Collector:	Whittaker, D	Receive Date: 01/03/2003	9:55 AM		
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>			tus		
Length	73.5	mm			Fish Processing SOP		02/28/2003 12:00 PM Approved			
Abnormalities	None				Fish Processing SOP		02/28/2003 12:00 PM Approved			
Sample Lab ID#: 2003005-005K	Site: AREA II		-		Matrix:	FBT	Collect Date: 06/19/2002	12:00 PM		
Sample Field ID#: 05K	Locator: Station E				Collector:	Whittaker, D	Receive Date: 01/03/2003	9:55 AM		
Analyte/Compound Result		<u>Units</u>	MDL	RDL	Method		Analysis Date Sta	<u>tus</u>		
Length	58.7	mm			Fish Processing SOP		02/28/2003 12:00 PM Approved			
Abnormalities	None				Fish Processing SOP		02/28/2003 12:00 PM Approved			
Sample Lab ID#: 2003005-005L	Site: AREA II				Matrix:	FBT	Collect Date: 06/19/2002	12:00 PM		
Sample Field ID#: 05L	Locator: Station E				Collector:	Whittaker, D	Receive Date: 01/03/2003	9:55 AM		
Analyte/Compound Result		<u>Units</u>	MDL	RDL	Method		Analysis Date Sta	<u>tus</u>		
Length	87.9	mm			Fish Processing SOP		02/28/2003 12:00 PM Approved			
Abnomalities	None				Fish Processing SOP		02/28/2003 12:00 PM Approved			
Sample Lab ID#: 2003005-006	Site: AREA I				Matrix:	FBT	Collect Date: 06/19/2002	12:00 PM		
Sample Field ID#; 06	Locator: Station A				Collector:	Whittaker, D	Receive Date: 01/03/2003	9:55 AM		
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status			
Cadmium	0.066	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:30 AM Approve			

ND = Analyzed for, but not detected above MDL (equiv. U)

Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 20 Sample Field ID#: 06	003005-006 3	Site: Locator:	AREA I Station A				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound Result		Units	MDL	RDL	Method		Analysis Date	<u>\$1</u>	atus		
Chromium 0.28		В	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Appro	ved	
Copper		3.0		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Appro	ved
Lead		1.0		mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:30 AM Approved		
Surrogate				<u> </u>	Acceptan	ce Criteria	2				
PCNB		:	82	% Recovery	60	- 140	Modified A	DAC 983.21	03/25/2003 12:0	00 AM Appro	oved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified A	DAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1242		0.47	7	ug/g wet	0.019	0.057	Modified A0	DAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1248		ND		ug/g wet	0.038	0.11	Modified A	DAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1254		0.80	ס	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1260		0.0	31 M	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 77	ND		ug/g wet	0.0008	0.0024	Modified AC	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 81	ND		ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 105	0.0	098	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 114	ND		ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 118	0.0	60	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 123	ND		ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 126	ND		ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 156	0.0	040	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 157	0.0	015 M	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 167	0.0	020 M	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 169	ND		ug/g wet	0.0006	0.0018	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 170	0.0	032 M	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 180	0.0	047	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Toxic Congener	BZ# 189	ND		ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Congener BZ# 8	3	0.0	048	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved
PCB Congener BZ# 1	18	0.0	37	ug/g wet	0.0016	0.0048	Modified A	OAC 983.21	03/25/2003 12:	00 AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003005-006 Sample Field ID#: 06	Site: AREA I Locator: Station A				Matrix: Collector:	FBT Whittaker, D	Collect Date: 06/19/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
PCB Congener BZ# 28	0.082	ug/g wet	0.0033	0.0099	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 44	0.033	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 52	0.11	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 66	0.052	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 101	0.074	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0056	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 138	0.039	ug/g wet	0.0017	0.0051	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 153	0.049	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 187	0.0077	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
Lipid Concentration	0.63	%			Modified A	OAC 983.21	03/25/2003 12:00 AM Approved
Solid Concentration	15	%			Modified A	OAC 950.46B	05/08/2003 1:00 PM Approved
Species	Quahog				Fish Proce	ssing SOP	02/28/2003 12:00 AM Approved
Weight	339	g wet			Fish Proce	ssing SOP	02/28/2003 12:00 AM Approved
Sample Lab ID#: 2003005-006A	Site: AREA I				Matrix:	FBT	Collect Date: 06/19/2002 12:00 PM
Sample Field ID#: 06A	Locator: Station A				Collector:	Whittaker, D	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
Length	81.0	mm			Fish Proce	ssing SOP	02/28/2003 12:00 PM Approved
Abnormalities	None	3			Fish Proce	ssing SOP	02/28/2003 12:00 PM Approved
Sample Lab ID#: 2003005-006B	Site: AREA I				Matrix:	FBT	Collect Date: 06/19/2002 12:00 PM
Sample Field ID#: 06B	Locator: Station A				Collector:	Whittaker, D	Receive Date: 01/03/2003 9:55 AM

ND ■ Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch:

2003005

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

							,				
	2003005-006B	Site:	AREA I		· · · · · · · · · · · · · · · · · · ·		Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: (	)6B	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		65.8	3	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ie				Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	red .
Sample Lab ID#: 2	2003005-006C	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: (	)6C	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		, 88.7	7	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	e				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 2	2003005-006D	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: (	06D	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	[	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		61.3	3	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Appro	/ed
Abnormalities		Nor	10				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	/ed
Sample Lab ID#: 2	2003005-006E	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: (	06E	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	!	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		76.7	7	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Appro	ved .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	ved .
Sample Lab ID#: 2	2003005-006F	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: (	)6F	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	1	Res	ult	Units	MDL	RDL	Method		Analysis Date	St	atus

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-006F	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06F	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-006G	Site:	AREA I			.,	Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06G	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd .	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Length		75.0	0	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-006H	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06H	Locator:	Station A	4.4	· · · · · · · · · · · · · · · · · · ·		Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		95.	3	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	ved
Sample Lab ID#:	2003005-0061	Site:	AREA I		,		Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	061	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Length		85.	9	mm	,		Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Appro	ved
Sample Lab ID#:	2003005-006J	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06J	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	n <u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>S1</u>	atus
Length		82.	8	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-006J	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06J	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-006K	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06K	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	nd .	Resu	<u>ult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		70.4		mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Abnormalities		None	•				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-006L	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	06L	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Resu	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length		76.0		mm ·			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Abnormalities		None	€				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-007	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	07	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Resi	<u>ult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Cadmium		0.08	4	mg/Kg wet	0.004	0.012	EPA 200.7	ı	04/07/2003 10:	30 AM Appro	ved
Chromium		0.32		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Appro	ved
Copper		2.9		mg/Kg wet	0.004	0.012	EPA 200.7	ı	04/07/2003 10:	30 AM Appro	ved
Lead		0.97	_	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:	30 AM Appro	ved
Surroga	<u>ate</u>				<u>Acceptar</u>	ce Criter	<u>ia</u>				
PCNB		7	8	% Recovery	y 60	- 140	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	oved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1242		0.40		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/25/2003 12:0	O AM Appro	ved
PCB A1248		ND		ug/g wet	0.038	0.11	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1254		0.60		ug/g wet	0.013	0.039	A haifibol	OAC 983.21	03/25/2003 12:0	O AM Appro	ved

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Sample Lab ID#: 2003005-007 Sample Field ID#: 07	Site: AREA I Locator: Station B				Matrix: FBT Collector: Whittaker, D	Collect Date: 06/19/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	Analysis Date Status
PCB A1260	0.038 M	ug/g wet	0.022	0.066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	0.0031 J	ug/g wet	0.0008	0.0024	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
Compound quantitated from seco	ondary column. No MDL ge	enerated from s	econdary c	olumn.		
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.041	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0037	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	0.0015 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	0.0018 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.0024 M	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0050	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 8	0.0025 M	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 18	0.036	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 28	0.074	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 44	0.030	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 52	0.083	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 66	0.047	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 101	0.058	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0043	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 138	0.030	ug/g wet	0.0017	0.0051	Modified AOAC 983,21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 153	0.034	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/25/2003 12:00 AM Approved

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

### Page 30 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003005-007 Sample Field ID#: 07	Site: AREA I Locator: Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
PCB Congener BZ# 187	0.0053 M	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ed
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ed
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ed
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ed
Lipid Concentration	0.47	%			Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ed
Solid Concentration	15	%			Modified A	OAC 950.46B	05/08/2003 1:00	PM Approv	ed
Species	Quahog				Fish Proce	ssing SOP	02/27/2003 12:0	00 AM Approv	ed
Weight	639	g wet			Fish Proce	ssing SOP	02/27/2003 12:0	00 AM Approv	ed
Sample Lab ID#: 2003005-007A Sample Field ID#: 07A	Site: AREA I Locator: Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Sta	atus
Length .	99.8	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ed
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Sample Lab ID#: 2003005-007B	Site: AREA I	· · · · · · · · · · · · · · · · · · ·			Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 07B	Locator: Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	110.4	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Sample Lab ID#: 2003005-007C	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 07C	Locator: Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length	79.3	mm			Fish Proce	ssing SOP	02/27/2003 12:0	O PM Annroy	red her

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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RDL = Reporting Detection Limit (equiv. MRL)

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LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

#### Page 31 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS**

**WILLIAM X. WALL EXPERIMENT STATION** EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2	003005-007C	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 0	)7C	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound		Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 2	2003005-007D	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 0	)7D	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Length		61.	5	mm	•		Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#: 2	2003005-007E	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 0	)7E	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		89.8	8	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ved
Sample Lab ID#: 2	2003005-007F	Site:	AREA I	· · · · · · · · · · · · · · · · · · ·			Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 0	)7F	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		84.	4	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Sample Lab ID#: 2	2003005-007G	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PN
Sample Field ID#: 0	)7G	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		94.	0	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Abnormalities		Nor					Fish Proce	! COD	02/27/2003 12:	00 014 A	und.

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

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LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-007G	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	07G	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-007H	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	07H	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		97.	2	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	veđ
Abnormalities		Nor	ne				Fish Proce	essing SOP	02/27/2003 12:0	30 PM Approv	ved
Sample Lab ID#:	2003005-0071	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	071	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	n <u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		100	0.0	mm			Fish Proce	ssing SOP	02/27/2003 12:0	30 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	essing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-007J	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	07J	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		63 <i>.</i> °	7	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	essing SOP	02/27/2003 12:	00 PM Approv	ved
Sample Lab ID#:	2003005-007K	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	07K	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		97.	6	mm			Fish Proce	essing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	essing SOP	02/27/2003 12:0	00 PM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

#### Page 33 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: Sample Field ID#:	2003005-007L 07L	Site: AREA I Locator: Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	<u>d</u>	Result	Units	MDL	RDL	Method		Analysis Date	St	atus
Length		89.4	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities		None				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-008	Site: AREA I			· · · · · · · · · · · · · · · · · · ·	Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	08	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	<u>d</u>	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Cadmium		0.098	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Chromium		0.62	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Copper		7.1	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Lead		1.8	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Surrogat	<u>e</u>		<u> </u>	cceptan	ce Criteri	<u>a</u>				
PCNB		82	% Recovery	60	- 140	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	oved
PCB A1232		ND	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ved
PCB A1242		0.63	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Approv	ved
PCB A1248		ND	ug/g wet	0.038	0.11	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1254		0.91	ug/g wet	0.013	0.039	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB A1260		0.061 M	ug/g wet	0.022	0.066	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congene	er BZ# 77	0.0055 J	ug/g wet	0.0008	0.0024	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
Compound quai	ntitated from sec	ondary column. No MDL ge	enerated from sec	ondary o	olumn.					
PCB Toxic Congene	er BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congene	er BZ# 105	0.0043	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congene	er BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/25/2003 12:0	OO AM Appro	ved
PCB Toxic Congene	er BZ# 118	0.070	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congene	er BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
PCB Toxic Congene	er BZ# 126	0.0015 M	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/25/2003 12:0	00 AM Appro	ved
No coelution wit	th BZ# 129. Com	pound quantitated with pri	mary column.							

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:         2003005-008           Sample Field ID#:         08	Site: AREA I Locator: Station C				Matrix: FBT Collector: Whittaker, D	Collect Date: 06/19/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	Analysis Date Status
PCB Toxic Congener BZ# 156	0.0058	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	0.0022 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	0.0030 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.0039	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0073	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 8	0.0054	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 18	0.052	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 28	0.11	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 44	0.038	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 52	0.12	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 66	0.065	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 101	0.088	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0067	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 138	0.047	ug/g wet	0.0017	0.0051	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 153	0.025	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 187	0.0064 M	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/25/2003 12:00 AM Approved
Lipid Concentration	0.46	%			Modified AOAC 983.21	03/25/2003 12:00 AM Approved
Solid Concentration	14	%			Modified AOAC 950.46B	05/08/2003 1:00 PM Approved
Species	Quahog				Fish Processing SOP	02/28/2003 12:00 AM Approved
Weight	379	g wet			Fish Processing SOP	02/28/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Analyte/Compour Length	<u>iiu</u>	78.5	<del></del>	mm	MDL	KUL	Fish Proce	ssing SOP	02/28/2003 12:0		
Sample Field ID#:	08E	Locator:	Station C	Units	. NOI	RDL	Collector:	Whittaker, D	Receive Date: Analysis Date		9:55 AM atus
Sample Lab ID#:	2003005-008E	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Length		96.	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	JO PM Approv	/ed
Analyte/Compour	nd	Res	sult	Units	MDL	RDL	Method		Analysis Date	St	atus
Sample Field ID#:	08D	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-008D	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ed /
Length		81.2	2	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red .
Analyte/Compour	nd	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Sample Field ID#:	08C	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-008C	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Length		67.8	В	mm			Fish Proce	•	02/28/2003 12:0	• •	
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u> :	atus
Sample Field ID#:	08B	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-008B	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Analyte/Compour Length	<u>nd</u>	<u>Res</u> 87.4		<u>Units</u> mm	MDL	<u>RDL</u>	<u>Method</u> Fish Proce	ssing SOP	Analysis Date 02/28/2003 12:0		atus red
Sample Field ID#:	08A	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-008A	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
A CONTRACTOR OF THE PROPERTY OF								adi Olalley			40.00.500

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

QCS = Quality Control Sample (external to lab)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

#### Page 36 of 82

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Field ID#: 08E	001114011					• •	oject Gooran	iatorri dai orano,			
Abnormalities		470777									12:00 PM 9:55 AM
Sample Field ID#: 08F				<u>Units</u>	MDL	RDL		ssing SOP		_	
Length		 77.7						•			12:00 PM 9:55 AM
Sample Field ID#: 08G	Length	75.	3		MDL	<u>RDL</u>	Fish Proce	•	02/28/2003 12:0	00 PM Approv	red
Length				в .							12:00 PM 9:55 AM
Sample Field ID#: 08HLocator: Station CCollector: Whittaker, DReceive Date: 01/03/2003 9Analyte/Compound LengthResult 83.2Units mmMDL Fish Processing SOPMethod Fish Processing SOPAnalysis Date 02/28/2003 12:00 PM ApprovedAbnormalitiesNoneFish Processing SOP02/28/2003 12:00 PM ApprovedSample Lab ID#: Sample Field ID#:2003005-008I 08ISite: Locator:AREA I Locator:Matrix: Collector: Whittaker, DFBT 	Length	78.0	0		MDL	RDL	Fish Proce	•	02/28/2003 12:0	00 PM Approv	red
Length         83.2         mm         Fish Processing SOP         02/28/2003 12:00 PM Approved           Abnormalities         None         Fish Processing SOP         02/28/2003 12:00 PM Approved           Sample Lab ID#:         2003005-008I         Site:         AREA I         Matrix:         FBT         Collect Date:         06/19/2002 12           Sample Field ID#:         08I         Locator:         Station C         Collector:         Whittaker, D         Receive Date:         01/03/2003 9           Analyte/Compound Length         Result         Units         MDL RDL RDL Method         Method         Analysis Date         Status           Length         83.9         mm         Fish Processing SOP         02/28/2003 12:00 PM Approved		 									12:00 PM 9:55 AM
Sample Field ID#:081Locator:Station CCollector:Whittaker, DReceive Date:01/03/20039Analyte/CompoundResultUnitsMDLRDLMethodAnalysis DateStatusLength83.9mmFish Processing SOP02/28/200312:00 PM Approved	Length '	83.:	2	<del></del>	<u>MDL</u>	<u>RDL</u>	Fish Proce	•	02/28/2003 12:0	00 PM Approv	/ed
Length 83.9 mm Fish Processing SOP 02/28/2003 12:00 PM Approved		 Contract ()				, "					12:00 PM 9:55 AM
	Length	83.	9		MDL	<u>RDL</u>	Fish Proce	-	02/28/2003 12:0	00 PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Report Print Date: 06/26/2003

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X, WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

BWSC DIV RESPONSE & REMEDIATION

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

••••••							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
•	2003005-0081	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	081	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-008J	Site:	AREA I		<del></del>		Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	08J	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		79.	8	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		None					Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-008K	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	08K	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>		sult	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		85.	1	mm			Fish Proces	•	02/28/2003 12:0	• •	
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-008L	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	08L	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>ıd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		70.	5	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-009	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	09	Locator:	Station D		*, .		Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>id</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Cadmium		0.0	71	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	ved
Chromium		0.4	6	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	ved
Copper		3.7		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	ved
Lead		1.4		mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

NA = Not applicable

Page 37 of 82

FPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:

2003005-009

Site:

AREAI

Matrix:

**FBT** 

Collect Date: 06/19/2002

12:00 PM

Sample Field ID#: 09

Locator: Station D

Collector:

Whittaker, D

Receive Date: 01/03/2003

9:55 AM

Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	Analysis Date	<u>Status</u>
Surrogate		A	cceptan	ce Criteria			
PCNB	81	% Recovery	60	- 140	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1242	0.97	ug/g wet	0.019	0.057	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1254	1.3	ug/g wet	0.013	0.039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1260	0.058 M	ug/g wet	0.022	0.066	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	0.0071 J	ug/g wet	0.0008	0.0024	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
Compound quantitated from secon	ndary column. No MDL (	generated from sec	ondary c	olumn.			
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	0.012	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	0.098	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	0.0074	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	0.0023 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	0.0032 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	0.0049	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	0.0094	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 8	0.0095	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 18	0.077	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.15	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 44	0.053	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

••••••				•	•
Sample Lab ID#: 2003005-009 Sample Field ID#: 09	Site: AREA I Locator: Station D			Matrix: FBT Collector: White	Collect Date: 06/19/2002 12:00 Plaker, D Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	<u>Units</u>	MDL RD	Method	Analysis Date Status
PCB Congener BZ# 52	0.17	ug/g wet	0.0022 0.0	66 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 66	0.086	ug/g wet	0.0022 0.0	66 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 101	0.13	ug/g wet	0.0022 0.0	66 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0078	ug/g wet	0.0012 0.0	36 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 138	0.063	ug/g wet	0.0017 0.0	51 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 153	0.063	ug/g wet	0.0014 0.0	42 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 187	0.0088	ug/g wet	0.0022 0.0	66 Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011 0.0	Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012 0.0	Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014 0.0	Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
Lipid Concentration	0.62	%		Modified AOAC 98	3.21 03/26/2003 12:00 AM Approved
Solid Concentration	15	%		Modified AOAC 95	0.46B 05/08/2003 1:00 PM Approved
Species	Quahog			Fish Processing S	OP 02/27/2003 12:00 AM Approved
Weight	274	g wet		Fish Processing S	OP 02/27/2003 12:00 AM Approved
Sample Lab ID#: 2003005-009A	Site: AREA I			Matrix: FBT	Collect Date: 06/19/2002 12:00 P
Sample Field ID#: 09A	Locator: Station D			Collector: Whit	taker, D Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	Units	MDL RD	Method	Analysis Date Status
Length	88.6	mm		Fish Processing S	OP 02/27/2003 12:00 PM Approved
Abnormalities	None			Fish Processing S	OP 02/27/2003 12:00 PM Approved
Sample Lab ID#: 2003005-009B	Site: AREA I			Matrix: FBT	Collect Date: 06/19/2002 12:00 P
Sample Field ID#: 09B	Locator: Station D			Collector: White	taker, D Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	<u>Units</u>	MDL RD	Method	Analysis Date Status
Length	80.2	mm		Fish Processing S	OP 02/27/2003 12:00 PM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EI AW. MAOOOTS

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

	2003005-009B 09B	Site: Locator:	AREA I Station D	:	· .		Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	<u> </u>	Res	<u>ult</u>	Units	MDL	RDL	Method		Analysis Date		atus
Abnormalities		Nor	e				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ed
Sample Lab ID#:	2003005-009C	Site:	AREA I		<del></del>		Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	09C	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	d	Res	<u>ult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	Sta	atus .
Length		81.3	3	mm	•		Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-009D	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	09D	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	<u>d</u>	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length		68.8	3	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-009E	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	09E	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	<u>d</u>	Res	suit	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length		74.8	3	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-009F	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	09F	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	<u>d</u>	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length		74.	1	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

: 01/03/2003	12:00 PM 9:55 AM 12:00 PM
06/19/2002	
	12:00 PM
: 01/03/2003	
	9:55 AM
Stat	tus
2:00 PM Approve	ed
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06/19/2002	12:00 PM
: 01/03/2003	9:55 AM
Stat	tus
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06/19/2002	12:00 PM
: 01/03/2003	9:55 AM
e <u>Stat</u>	tus
2:00 PM Approve	ed
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06/19/2002	12:00 PM
: 01/03/2003	9:55 AM
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ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey Contact:

					•	·	
Sample Lab ID#: 2003005-009K Sample Field ID#: 09K	Site: AREA I Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: 06/19/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound Length	Result 59.5	<u>Units</u> mm	MDL	RDL	Method Fish Proces	_	Analysis Date Status 02/27/2003 12:00 PM Approved
Abnormalities	None				Fish Proces	ising SOP	02/27/2003 12:00 PM Approved
Sample Lab ID#: 2003005-009L	Site: AREA I				Matrix:	FBT	Collect Date: 06/19/2002 12:00 PM
Sample Field ID#: 09L	Locator: Station D				Collector:	Whittaker, D	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
Length	55.6	mm			Fish Proces	sing SOP	02/27/2003 12:00 PM Approved
Abnormalities	None				Fish Proces	sing SOP	02/27/2003 12:00 PM Approved
Sample Lab ID#: 2003005-010	Site: AREA I				Matrix:	FBT	Collect Date: 06/19/2002 12:00 PM
Sample Field ID#: 10	Locator: Station E				Collector:	Whittaker, D	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	0.11	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:30 AM Approved
Chromium	0.63	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:30 AM Approved
Copper	4.1	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:30 AM Approved
Lead	1.4	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:30 AM Approved
Surrogate		<u> </u>	cceptan	ce Criteri	<u>a</u>		
PCNB	82	% Recovery	60	- 140	Modified AC	DAC 983.21	03/26/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/26/2003 12:00 AM Approved
PCB A1242	1.7	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/26/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AOAC 983.21		03/26/2003 12:00 AM Approved
PCB A1254	2.2	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	03/26/2003 12:00 AM Approved
PCB A1260	0.12	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	03/26/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	0.011 J	ug/g wet	0.0008	0.0024	Modified AC	DAC 983.21	03/26/2003 12:00 AM Approved
Compound quantitated from se	econdary column. No MDL gene	erated from sec	ondary o	olumn.			

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

NA = Not applicable

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Prepared For:

Contact:

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003005-010 Sample Field ID#: 10	Site: AREA I Locator: Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 12:00 01/03/2003 9:55
Analyte/Compound	Result	Units	MDL	RDL	Method	•	Analysis Date	Status
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 105	0.011	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 118	0.15	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 156	0.011	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 157	0.0034 M	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 167	0.0077	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 170	0.0078	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 180	0.017	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 8	0.030	ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 18	0.13	ug/g wet	0.0016	0.0048	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 28	0.35	ug/g wet	0.0033	0.0099	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 44	0.082	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 52	0.27	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 66	0.061	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 101	0.20	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 128	0.016	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 138	0.091	ug/g wet	0.0017	0.0051	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 153	0.11	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 187	0.020	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 195	0.0012 M	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/26/2003 12:0	0 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003005-010 Sample Field ID#: 10	Site: AREA I Locator: Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	tus
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/26/2003 12:0	00 AM Approve	ed
Lipid Concentration	0.61	%			Modified A	OAC 983.21	03/26/2003 12:0	00 AM Approve	ed
Solid Concentration	14	%			Modified A	OAC 950.46B	05/08/2003 1:0	0 PM Approve	ed
Species	Quahog				Fish Proces	ssing SOP	02/27/2003 12:0	00 AM Approve	∍d
Weight	313	g wet			Fish Proces	ssing SOP	02/27/2003 12:0	00 AM Approve	ed
Sample Lab ID#: 2003005-010A	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10A	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>Sta</u>	<u>tus</u>
Length	81.6	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approve	ed
Abnormalities	None				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approve	ed
Sample Lab ID#: 2003005-010B	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10B	Locator: Station E		* *.		Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u> Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	Sta	tus
Length	59.7	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approve	ed
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approve	ed
Sample Lab ID#: 2003005-010C	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10C	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	tus
Length	75.5	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approve	ed
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approve	ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

200300

**Project Name:** 

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

								and the second second			
Sample Lab ID#: Sample Field ID#:	2003005-010D 10D	Site: Locator:	AREA I Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour		Re	sult	Units	MDL	RDL	Method		Analysis Date	Sta	atus
Length		59.	6	mm			Fish Proce	ssina SOP	02/27/2003 12:	00 PM Approv	ed
Abnormalities		No						ssing SOP	02/27/2003 12:	• •	
Sample Lab ID#:	2003005-010E	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	10E	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Re	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	Sta	atus .
Length		86.	3	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	red
Sample Lab ID#:	2003005-010F	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	10F	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus .
Length		86.	8	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ed
Sample Lab ID#:	2003005-010G	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	10G	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Sta</u>	atus
Length		86.	6	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	red
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	red
Sample Lab ID#:	2003005-010H	Site:	AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#:	10H	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus .
Length		69.	6	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Sample Lab ID#: 2003005-010H Sample Field ID#: 10H	Site: AREA I Locator: Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date:	06/19/2002	12:00 PM 9:55 AM
	Locator: Station E					vvnittaker, D	Receive Date:		
Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date		
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 2003005-0101	Site: AREA				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10I	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	75.1	mm	•		Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnomalities	None				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 2003005-010J	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10J	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	78.8	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	⁄ed
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 2003005-010K	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10K	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Length	74.0	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Sample Lab ID#: 2003005-010L	Site: AREA I				Matrix:	FBT	Collect Date:	06/19/2002	12:00 PM
Sample Field ID#: 10L	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length	73.4	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Contact:						Pro	ject Coordin	ator: Paul Cramey			
Sample Lab ID#: Sample Field ID#:	2003005-010L 10L	Site: Locator:	AREA I Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	06/19/2002 01/03/2003	12:00 PM 9:55 AM
Sample Lab ID#:	2003005-011	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	nd	Res	ult	Units	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Cadmium		0.05	54	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	red
Chromium		0.26	3	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	red .
Copper		2.4		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	/ed
Lead		0.83	3	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:3	30 AM Approv	red .
Surroga	ate			E	cceptan	ce Criteri	<u>a</u>				
PCNB		ŧ	80	% Recovery	60	- 140	Modified AC	DAC 983.21	03/26/2003 12:0	00 AM Appro	ved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/26/2003 12:0	00 AM Approv	red
PCB A1242		0.02	28 M	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/26/2003 12:0	00 AM Approv	ed .
PCB A1248		ND		ug/g wet	0.038	0.11	Modified AC	DAC 983.21	03/26/2003 12:0	00 AM Approv	red .
PCB A1254		0.03	35 M	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	03/26/2003 12:0	00 AM Approv	red
PCB A1260		ND		ug/g wet	0.022	0.066	Modified AC	OAC 983.21	03/26/2003 12:0	00 AM Approv	red
PCB Toxic Conge	ner BZ# 77	ND		ug/g wet	0.0008	0.0024	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 81	ND		ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 105	ND		ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	red .
PCB Toxic Conge	ner BZ# 114	ND		ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 118	0.00	037	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 123	ND		ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 126	ND		ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 156	ND		ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/26/2003 12:	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 157	ND		ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Toxic Conge	ner BZ# 167	ND		ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/26/2003 12:	00 AM Approv	red .
PCB Toxic Conge	ner BZ# 169	ND		ug/g wet	0.0006	0.0018	Modified AC	OAC 983.21	03/26/2003 12:0	00 AM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Contact:

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003005-011 Sample Field ID#: 11	Site: AREA III Locator: Station A				Matrix: Collector:	FBT Whittaker, D		00 PM 55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status	
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 18	0.0063	ug/g wet	0.0016	0.0048	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 52	0.0028 M	ug/g wet	0.0022	0.0066	Modified At	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 66	ND	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 128	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 138	0.0043 M	ug/g wet	0.0017	0.0051	Modified A	OAC 983,21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 153	0.0042	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
Lipid Concentration	0.41	%			Modified A	OAC 983.21	03/26/2003 12:00 AM Approved	
Solid Concentration	13	%			Modified A	OAC 950.46B	05/08/2003 1:00 PM Approved	
Species	Quahog				Fish Proces	ssing SOP	02/27/2003 12:00 AM Approved	
Weight	417	g wet			Fish Proces	ssing SOP	02/27/2003 12:00 AM Approved	
Sample Lab ID#: 2003005-011A	Site: AREA III				Matrix:	FBT	Collect Date: 08/19/2002 12:0	00 PM
Sample Field ID#: 11A	Locator: Station A				Collector:	Whittaker, D	Receive Date: 01/03/2003 9:5	5 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date Status	

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact.						• • •	ojoot oooran	lator. I au Crancy			
Sample Lab ID#: 20 Sample Field ID#: 11	003005-011A IA	Site: Locator:	AREA III Station A				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	08/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound		Res		<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		91.9	9	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	ed .
Sample Lab ID#: 20	003005-011B	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#: 11	IB .	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		79.4	4	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	⁄ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red .
Sample Lab ID#: 20	003005-011C	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#: 11	ic	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		83.7	7	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red .
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	red .
Sample Lab ID#; 20	003005-011D	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#: 11	ID	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length		87.9	9	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 20	003005-011E	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#: 11	ΙE	Locator:	Station A	1 1	1		Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		Res	<u>sult</u>	<u>Units</u>	MDL	RDL.	Method		Analysis Date	<u>St</u>	atus
Length		80.	1	mm			Fish Proce	seina SOD	02/27/2003 12:0	O DM Annes	

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

### Page 50 of 82

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-011E	Site:	AREA III Station A				Matrix:	FBT Whittaker, D	Collect Date: Receive Date:	08/19/2002	12:00 PM 9:55 AM
Sample Field ID#:		Locator:	<del></del>				Collector:	vvnittaker, D			
Analyte/Compou	<u>nd</u>		sult	<u>Units</u>	<u>MDL</u>	RDL	<u>Method</u>		Analysis Date	-	<u>atus</u>
Abnormalities		Noi	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-011F	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11F	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		88.	6	mm	•		Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-011G	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11G	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		86.	1	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Abnormalities		No	ne				Fish Proce	essing SOP	02/27/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-011H	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11H	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		90.	7	mm			Fish Proce	essing SOP	02/27/2003 12:	00 PM Appro	ved
Abnormalities		Noi	ne				Fish Proce	essing SOP	02/27/2003 12:	00 PM Appro	ved
Sample Lab ID#:	2003005-0111	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	111	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		84.	0	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Appro	ved
Abnormalities		Noi	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	ved

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-0111	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	111	Locator:	Station A			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-011J	Site:	AREA III	····			Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11J	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	<u>sult</u>	Units	MDL	RDL	Method		Analysis Date	St	atus
Length		71.:	2	mm			Fish Proces	sing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proces	sing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-011K	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11K	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		67.	1	mm			Fish Proces	sing SOP	02/27/2003 12:0	00 PM Approv	veđ
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-011L	Site:	AREA III	<del></del>			Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	11L	Locator:	Station A				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	sult	Units	MDL	RDL	Method		Analysis Date	St	atus
Length		66.	7	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Abnormalities		Noi	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-012	Site:	AREA III		100		Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	Units	MDL	RDL	Method		Analysis Date	St	atus
Cadmium		0.0	84	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Chromium		0.1	0	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Copper		2.0		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:	30 AM Approv	ved
Lead		0.3	8	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact:

**Project Coordinator:** Paul Craffey

 Sample Lab ID#:
 2003005-012
 Site:
 AREA III
 Matrix:
 FBT
 Collect Date:
 08/19/2002
 12:00 PM

 Sample Field ID#:
 12
 Locator:
 Station B
 Collector:
 Whittaker, D
 Receive Date:
 01/03/2003
 9:55 AM

Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>	Analysis Date	Status
Surrogate		2	cceptan	ce Criteria			
PCNB	80	% Recovery	60	- 140	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1242	0.031 M	ug/g wet	0.019	0.057	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1254	0.014 M	ug/g wet	0.013	0.039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	0.0058	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 18	0.0027 M	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 44	0.0016 M	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved
PCB Congener BZ# 52	0.0040 M	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/26/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

oontaot.					goot ooolam	ator: I dan Orano,			
Sample Lab ID#: 2003005-012 Sample Field ID#: 12	Site: AREA III Locator: Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	08/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	-	Analysis Date	St	atus
PCB Congener BZ# 66	0.0047 M	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 101	0.0060 M	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 128	ND	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 138	0.0049 M	ug/g wet	0.0017	0.0051	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 153	0.0064	ug/g wet	0.0014	0.0042	Modified A	DAC 983.21	03/26/2003 12:0	O AM Approv	/ed
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A0	DAC 983.21	03/26/2003 12:0	00 AM Approv	⁄ed
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
Lipid Concentration	0.47	%			Modified A	DAC 983.21	03/26/2003 12:0	00 AM Approv	/ed
Solid Concentration	15	%			Modified A	DAC 950.46B	05/08/2003 1:00	PM Approv	/ed
Species	Quahog				Fish Proces	ssing SOP	02/28/2003 12:0	00 AM Approv	/ed
Weight	435	g wet			Fish Proces	ssing SOP	02/28/2003 12:0	00 AM Approv	/ed
Sample Lab ID#: 2003005-012A	Site: AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#: 12A	Locator: Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length	79.5	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities	None				Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#: 2003005-012B	Site: AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#: 12B	Locator: Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length	93.8	mm			Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	ved .
Abnormalities	None				Fish Proces	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: Sample Field ID#:	2003005-012C 12C	Site: Locator:	AREA III Station B				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	08/19/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour	nd	Res	<u>sult</u>	Units	MDL	RDL	Method		Analysis Date	St	atus
Length	<del>-</del>	57.	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	=	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-012D	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12D	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		67.	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-012E	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12E	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		87.0	0	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-012F	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12F	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		94.8	8	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-012G	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12G	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		84.3	2	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:	2003005-012G	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12G	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	ı <u>d</u>	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-012H	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12H	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		102	2.0	mm	•		Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-0121	Site:	AREA III		~~		Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	121	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	ı <u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		87.8	3	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-012J	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12J	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		88.4	4	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-012K	Site:	AREA III	<del></del>			Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12K	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>ıd</u>	Res	<u>ult</u>	Units	MDL	RDL	Method		Analysis Date	St	atus .
Length		72.5	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssina SOP	02/28/2003 12:0	OO PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-012K	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12K	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-012L	Site:	AREA III				Matrix:	FBT	Collect Date:	08/19/2002	12:00 PM
Sample Field ID#:	12L	Locator:	Station B				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length		80.	1	mm			Fish Proce	ssing SOP	02/28/2003 12:0	0 PM Approv	red .
Abnormalities		Nor	10				Fish Proce	essing SOP	02/28/2003 12:0	00 PM Approv	ed .
Sample Lab ID#:	2003005-013	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#;	13	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Anaiyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Cadmium		0.06	63	mg/Kg wet	0.004	0.012	EPA 200.7	,	04/07/2003 10:3	30 AM Approv	red
Chromium		0.09	97	mg/Kg wet	0.004	0.012	EPA 200.7	•	04/07/2003 10:3	30 AM Approv	red
Copper		1.7		mg/Kg wet	0.004	0.012	EPA 200.7	•	04/07/2003 10:3	30 AM Approv	ed .
Lead		0.07	75 M	mg/Kg wet	0.040	0.12	EPA 200.7	•	04/07/2003 10:3	30 AM Approv	red
Surroga	ate			E	cceptan	ce Criteri	<u>a</u>				
PCNB		•	79	% Recovery	60	- 140	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Appro	ved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red .
PCB A1242		ND		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red .
PCB A1248		ND		ug/g wet	0.038	0.11	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	/ed
PCB A1254		ND		ug/g wet	0.013	0.039	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB A1260		ND		ug/g wet	0.022	0.066	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB Toxic Conge	ner BZ# 77	ND		ug/g wet	0.0008	0.0024	Modified A	OAC 983.21	03/27/2003 12:0		
PCB Toxic Conge	ner BZ# 81	ND		ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red .
PCB Toxic Conge	ner BZ# 105	ND		ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/27/2003 12:0	• •	
PCB Toxic Conge	ner BZ# 114	ND		ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/27/2003 12:0	• • •	
PCB Toxic Conge		ND		ug/g wet		0.0036		OAC 983,21	03/27/2003 12:0	• •	

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

#### Page 57 of 82

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003005-013 Sample Field ID#: 13	Site: AREA III Locator: Station C				Matrix: FBT Collector: Whittaker, D	Collect Date: 08/29/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	Analysis Date Status
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 18	ND	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 52	ND	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 66	ND	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 128	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0017 M	ug/g wet	0.0017	0.0051	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 153	ND	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
Lipid Concentration	0.33	%			Modified AOAC 983.21	03/27/2003 12:00 AM Approved
Solid Concentration	11	%			Modified AOAC 950.46B	05/08/2003 1:00 PM Approved
Species	Quahog				Fish Processing SOP	02/27/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003005-013	Site: AREA III				Matrix:	FBT	Collect Date:	08/29/2002 12:00 PM
Sample Field ID#: 13	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Status
Weight	140	g wet			Fish Proce	ssing SOP	02/27/2003 12:0	00 AM Approved
Sample Lab ID#: 2003005-013A	Site: AREA III	· · · · · · · · · · · · · · · · · · ·			Matrix:	FBT	Collect Date:	08/29/2002 12:00 PM
Sample Field ID#: 13A	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AN
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	76.5	mm	,		Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-013B	Site: AREA III				Matrix:	FBT	Collect Date:	08/29/2002 12:00 PM
Sample Field ID#: 13B	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AN
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>Status</u>
Length	61.5	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-013C	Site: AREA III				Matrix:	FBT	Collect Date:	08/29/2002 12:00 PM
Sample Field ID#: 13C	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	65.0	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-013D	Site: AREA III				Matrix:	FBT	Collect Date:	08/29/2002 12:00 PM
Sample Field ID#: 13D	Locator: Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AN
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Status
Length	59.5	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approved

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**J** = Other QC criteria not met (see comments)

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-013D	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13D	Locator:	Station C	·			Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-013E	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13E	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	<u>d</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		62.	1	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-013F	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13F	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	d	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		63.	9	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-013G	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13G	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>	Res	sult	Units	MDL	RDL	Method		Analysis Date	St	atus
Length		54.	5	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Abnormalities		No	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-013H	Site:	AREA III	· New Property			Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13H	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		56.	7	mm			Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/eđ
Abnormalities		Noi	ne				Fish Proce	ssing SOP	02/27/2003 12:	00 PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:	2003005-0131	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	131	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		65.9	9	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	red .
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-013J	Site:	AREA III	<del></del>			Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13J	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	n <u>d</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		60.3	3	mm			Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Nor	ne				Fish Proces	ssing SOP	02/27/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-013K	Site:	AREA III		·		Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13K	Locator:	Station C				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>		<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		59.	8	mm			Fish Proces	•	02/27/2003 12:0		
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-013L	Site:	AREA III				Matrix:	FBT	Collect Date:	08/29/2002	12:00 PM
Sample Field ID#:	13L	Locator:	Station C			,	Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Re	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Length		58.	6	mm			Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Abnormalities		Noi	ne				Fish Proce	ssing SOP	02/27/2003 12:0	00 PM Approv	/ed
Sample Lab ID#:	2003005-014	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14	Locator:	Station D	,			Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Cadmium		0.0	00	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	20 444 4 4 4	

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MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact:

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003005-014 Sample Field ID#: 14	Site: AREA III Locator: Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: 09/09/2002 12:00 P Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Chromium	0.061	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:30 AM Approved
Copper	1.2	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:30 AM Approved
Lead	0.096 M	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:30 AM Approved
Surrogate		<u> </u>	Acceptan	ce Criteria	2		
PCNB	79	% Recovery	60	- 140	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified At	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified A0	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 18	ND	ug/g wet	0.0016	0.0048	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved

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M = Analyte concentration > MDL but < RDL

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QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Prepared For: Contact:

**Project Coordinator: Paul Craffey** 

							-	•			
Sample Lab ID#: Sample Field ID#:	2003005-014 14	Site: Locator:	AREA III Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	09/09/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
PCB Congener BZ	<b>:# 2</b> 8	ND		ug/g wet	0.0033	0.0099	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB Congener BZ	# 44	ND		ug/g wet	0.0010	0.0030	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB Congener BZ	<b>:#</b> 52	ND		ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB Congener BZ	<b>#</b> 66	ND		ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ed
PCB Congener BZ	# 101	ND		ug/g wet	0.0022	0.0066	Modified At	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB Congener BZ	# 128	ND		ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ed .
PCB Congener B2	<b>:</b> # 138	0.0	038 M	ug/g wet	0.0017	0.0051	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ed .
PCB Congener BZ	<b>:</b> # 153	0.0	039 M	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ed .
PCB Congener BZ	# 187	ND		ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red
PCB Congener BZ	# 195	ND		ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ed .
PCB Congener BZ	# 206	ND		ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red .
PCB Congener BZ	<b>2</b> # 209	ND		ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	red .
Lipid Concentratio	n	0.3	)	%			Modified A	OAC 983.21	03/27/2003 12:0	O AM Approv	ed .
Solid Concentration	n	11		%			Modified A	OAC 950.46B	05/08/2003 1:00	PM Approv	red .
Species		Qua	ahog				Fish Proces	ssing SOP	02/28/2003 12:	00 AM Approv	red
Weight		766	;	g wet			Fish Proces	ssing SOP	02/28/2003 12:	00 AM Approv	ved .
Sample Lab ID#:	2003005-014A	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14A	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	n <u>d</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		96.	7	mm			Fish Proces	ssing SOP	02/28/2003 12:	00 PM Approv	/ed
Abnormalities		Not	ne				Fish Proces	ssing SOP	02/28/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-014B	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14B	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

EPA #: MA00019

Analysis Report for Login Batch:

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

2003005 **Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

			·								
Sample Lab ID#:	2003005-014B	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14B	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	nd	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length		103	3.5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ed
Sample Lab ID#:	2003005-014C	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14C	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	n <u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length		104	<b>8</b>	mm			Fish Proce	ssing SOP	02/28/2003 12:0	0 PM Approv	ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ed
Sample Lab ID#:	2003005-014D	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14D	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		92.0	0	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-014E	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14E	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	nd	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		98.	9	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-014F	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14F	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	nd	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		100	).5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Report Print Date: 06/26/2003

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

BWSC DIV RESPONSE & REMEDIATION

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

							.,	,			
Sample Lab ID#: Sample Field ID#:	2003005-014F 14F	Site: Locator:	AREA III Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	09/09/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour Abnormalities	<u>nd</u>	<u>Re</u> : Noi	sult ne	<u>Units</u>	MDL	RDL	<u>Method</u> Fish Proce	ssing SOP	Analysis Date 02/28/2003 12:0	_	atus red
Sample Lab ID#: Sample Field ID#:	2003005-014G 14G	Site: Locator:	AREA III Station D	-			Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	09/09/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour Length Abnormalities	<u>nd</u>	<u>Re:</u> 104 Noi		<u>Units</u> mm	MDL	RDL	<u>Method</u> Fish Proce Fish Proce	ssing SOP ssing SOP	Analysis Date 02/28/2003 12:0 02/28/2003 12:0	00 PM Approv	
Sample Lab ID#: Sample Field ID#:	2003005-014H 14H	Site: Locator:	AREA III Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date:	09/09/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour Length Abnormalities	nd .	<u>Res</u> 96. No		<u>Units</u> mm	MDL	RDL		ssing SOP	Analysis Date 02/28/2003 12:0 02/28/2003 12:0	00 PM Approv	
Sample Lab ID#: Sample Field ID#:	2003005-014I 14I	Site: Locator:	AREA III Station D			-	Matrix: Collector:	FBT Whittaker, D	Collect Date:	09/09/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour Length Abnormalities	<u>nd</u>	<b>Re:</b> 93. No:		<u>Units</u> mm	MDL	RDL	-	ssing SOP	Analysis Date 02/28/2003 12:0 02/28/2003 12:0	00 PM Approv	
Sample Lab ID#: Sample Field ID#:	2003005-014J 14J	Site: Locator:	AREA III Station D				Matrix: Collector:	FBT Whittaker, D	Collect Date:	09/09/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compour Length Abnormalities	nd .	<u>Re:</u> 98. No:		<u>Units</u> mm	MDL	RDL		ssing SOP	Analysis Date 02/28/2003 12:0 02/28/2003 12:0	00 PM Approv	

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

NA = Not applicable

Page 64 of 82

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Contact.							oject Gooraii	iator. Faul Oranoy			
	2003005-014J	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14J	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003005-014K	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14K	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	nd	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length		103	3.0	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-014L	Site:	AREA III				Matrix:	FBT	Collect Date:	09/09/2002	12:00 PM
Sample Field ID#:	14L	Locator:	Station D				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		106	6.5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	ved
Sample Lab ID#:	2003005-015	Site:	AREA III				Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compour	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Cadmium		0.1	1	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Chromium		0.3	8	mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	veđ
Copper		1.8		mg/Kg wet	0.004	0.012	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Lead		0.3	0	mg/Kg wet	0.040	0.12	EPA 200.7		04/07/2003 10:3	30 AM Approv	ved
Surroga	<u>te</u>				<u>Acceptan</u>	ce Criter	<u>ia</u>				
PCNB			84	% Recovery	/ 60	- 140	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Appro	oved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ved
PCB A1242		0.0	36 M	ug/g wet	0.019	0.057	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ved
PCB A1248		ND		ug/g wet	0.038	0.11	Modified A	OAC 983.21	03/27/2003 12:0	00 AM Approv	ved
PCB A1254		0.0	76	ug/g wet	0.013	0.039	Modified A	OAC 983.21	03/27/2003 12:0	OO AM Approv	ved

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R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

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LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003005-015 Sample Field ID#: 15	Site: AREA III Locator: Station E	.i.		Matrix: FBT Collector: Whittaker, D	Collect Date: 09/11/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL RDL	Method	Analysis Date Status
PCB A1260	ND	ug/g wet	0.022 0.066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008 0.0024	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND .	ug/g wet	0.0010 0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	0.0014 M	ug/g wet	0.0013 0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013 0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.0092	ug/g wet	0.0012 0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013 0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010 0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0012 M	ug/g wet	0.0011 0.0033	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012 0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012 0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006 0.0018	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013 0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0016 M	ug/g wet	0.0012 0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013 0.0039	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010 0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 18	ND	ug/g wet	0.0016 0.0048	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033 0.0099	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 44	0.0023 M	ug/g wet	0.0010 0.0030	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 52	0.0065 M	ug/g wet	0.0022 0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 66	0.0059 M	ug/g wet	0.0022 0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022 0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0014 M	ug/g wet	0.0012 0.0036	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0099	ug/g wet	0.0017 0.0051	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 153	0.012	ug/g wet	0.0014 0.0042	Modified AOAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 187	0.0025 M	ug/g wet	0.0022 0.0066	Modified AOAC 983.21	03/27/2003 12:00 AM Approved

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:         2003005-015           Sample Field ID#:         15	Site: AREA III Locator: Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date: Receive Date:	09/11/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	St	atus
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	03/27/2003 12:	00 AM Approv	ed
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	03/27/2003 12:	00 AM Approv	ed
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	03/27/2003 12:	00 AM Approv	red
Lipid Concentration	0.35	%			Modified A	OAC 983.21	03/27/2003 12:	OO AM Approv	ed
Solid Concentration	. 13	%			Modified A	OAC 950.46B	05/08/2003 1:0	OPM Approv	red
Species	Quahog				Fish Proce	ssing SOP	02/28/2003 12:	00 AM Approv	red
Weight	592	g wet			Fish Proce	ssing SOP	02/28/2003 12:	00 AM Approv	red
Sample Lab ID#: 2003005-015A	Site: AREA III				Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#: 15A	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	atus
Length	78.0	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	red
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	red
Sample Lab ID#: 2003005-015B	Site: AREA III				Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#: 15B	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	St	atus
Length	60.4	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	red
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	red
Sample Lab ID#: 2003005-015C	Site: AREA III	. :			Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#: 15C	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	93.0	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	red
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	red

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

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B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

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RDL = Reporting Detection Limit (equiv. MRL)

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LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

#### Page 68 of 82

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-015D	Site:	AREA III				Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15D	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	ult	Units	MDL	RDL	Method		Analysis Date	<u>St</u>	atus .
Length		86.	5	mm			Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red .
Abnormalities		. Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-015E	Site:	AREA III	·····			Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15E	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res		<u>Units</u>	MDL	RDL	Method		<b>Analysis Date</b>		atus
Length		90.8	8	mm			Fish Proce	~	02/28/2003 12:0		
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approv	red
Sample Lab ID#:	2003005-015F	Site:	AREA III				Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15F	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		80.	1	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	⁄ed
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-015G	Site:	AREA III				Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15G	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date		atus
Length		99.	0	mm			Fish Proce	ssing SOP	02/28/2003 12:		
Abnormalities		Nor	ne				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approv	/ed
Sample Lab ID#:	2003005-015H	Site:	AREA III				Matrix:	FBT	. Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15H	Locator:	Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res		<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	St	<u>atus</u>
Length		85.	8	mm			Fish Proce	ssina SOP	02/28/2003 12:	00 PM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

•••••					•	•		
Sample Lab ID#: 2003005-015H Sample Field ID#: 15H	Site: AREA III Locator: Station E				Matrix: Collector:	FBT Whittaker, D	Collect Date:	09/11/2002 12:00 PM 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Ştatus</u>
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approved
Sample Lab ID#: 2003005-015	Site: AREA III		······································		Matrix:	FBT	Collect Date:	09/11/2002 12:00 PM
Sample Field ID#: 15l	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Status
Length	98.8	mm	•		Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approved
Sample Lab ID#: 2003005-015J	Site: AREA III				Matrix:	FBT	Collect Date:	09/11/2002 12:00 PM
Sample Field ID#: 15J	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	77.8	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:0	00 PM Approved
Sample Lab ID#: 2003005-015K	Site: AREA III				Matrix:	FBT	Collect Date:	09/11/2002 12:00 PM
Sample Field ID#: 15K	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	79.9	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approved
Sample Lab ID#: 2003005-015L	Site: AREA III				Matrix:	FBT	Collect Date:	09/11/2002 12:00 PM
Sample Field ID#: 15L	Locator: Station E				Collector:	Whittaker, D	Receive Date:	01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Length	97.9	mm			Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approved
Abnormalities	None				Fish Proce	ssing SOP	02/28/2003 12:	00 PM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

#### Page 70 of 82

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For:

BWSC DIV RESPONSE & REMEDIATION

Project Name:

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003005-015L	Site:	AREA III	Matrix:	FBT	Collect Date:	09/11/2002	12:00 PM
Sample Field ID#:	15L	Locator:	Station E	Collector:	Whittaker, D	Receive Date:	01/03/2003	9:55 AM

				Quali	ty Control Data				
Analyte/Co	ompound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
Cadmium		LFB	93	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/07/2003 10:30 AM
Cadmium		LFM	92	% Recovery	70 - 130	EPA 200.7	0.92	mg/Kg wet	04/07/2003 10:30 AM
	Sample Lab ID#: 2003	005-011							
Cadmium		LFMDup	3.9	RPD	0 - 20	EPA 200.7	0.90	mg/Kg wet	04/07/2003 10:30 AM
	Sample Lab ID#: 2003	005-011							
Cadmium		LRB	ND	mg/Kg wet	ND	EPA 200.7	NA		04/07/2003 10:30 AM
Cadmium		QCS	94	% Recovery	70 - 130	EPA 200.7	2.5	mg/Kg dry	04/07/2003 10:30 AM
Chromium		LFB	97	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/07/2003 10:30 AM
Chromium		LFM	79	% Recovery	70 - 130	EPA 200.7	0.92	mg/Kg wet	04/07/2003 10:30 AM
	Sample Lab ID#: 2003	005-011							
Chromium		LFMDup	3.4	RPD	0 - 20	EPA 200.7	0.90	mg/Kg wet	04/07/2003 10:30 AM
	Sample Lab ID#: 2003	005-011							
Chromium		LRB	ND	mg/Kg wet	ND	EPA 200.7	NA		04/07/2003 10:30 AM
Chromium		QCS	105	% Recovery	70 - 130	EPA 200.7	0.14	mg/Kg dry	04/07/2003 10:30 AM
Copper		LFB	93	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/07/2003 10:30 AM
Copper		LFM	78	% Recovery	70 - 130	EPA 200.7	0.92	mg/Kg wet	04/07/2003 10:30 AM
	Sample Lab ID#: 2003	005-011		·				• •	
Copper LRB conc	. < 10% of sample result	LRB is in this batch	0.046 ; data qualific	mg/Kg wet	ND ecessary.	EPA 200.7	NA		04/07/2003 10:30 AM
Copper		QCS	99	% Recovery	70 - 130	EPA 200.7	71	mg/Kg dry	04/07/2003 10:30 AM
Copper		Samp DUP	3.4	RPD	0 - 20	EPA 200.7	NA		04/07/2003 10:30 AM
. , ,	Sample Lab ID#: 2003	•							
Lead		LFB	92	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/07/2003 10:30 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS

WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Page 71 of 82

Contact: Project Coordinator: Paul Craffey

			Quali	ty Control Data				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
Lead	LFM	71	% Recovery	70 - 130	EPA 200.7	0.92	mg/Kg wet	04/07/2003 10:30 AM
Sample Lab ID#: 20	003005-011							
Lead	LRB	ND	mg/Kg wet	ND	EPA 200.7	NA		04/07/2003 10:30 AM
Lead	QCS	105	% Recovery	70 - 130	EPA 200.7	0.13	mg/Kg dry	04/07/2003 10:30 AM
Lead	Samp DUP	14	RPD	0 - 20	EPA 200.7	NA		04/07/2003 10:30 AM
Sample Lab ID#: 20	003005-011							
Surrogate					<del></del>			
PCNB	LB	92	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	03/24/2003 12:00 AM
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

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MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 72 of 82

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

Analyte/Compound	QC Type	<u>Result</u>	<u>Units</u>	Acceptance Criteria	<u>Method</u>	Spike Conc.	Spike Units	Analysis Date
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 0.45%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/24/2003 12:00 AM
Surrogate								
PCNB	LB	90	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	03/25/2003 12:00 AM
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA	<del></del>	03/25/2003 12:00 AM
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or

trip blank or no trip blank was collected

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

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Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact:		Project Coordinator: Paul Craπey										
A. Markel water right of			Quali									
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date				
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
PCB Congener BZ# 209 Lipid Concentration= 0.75%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/25/2003 12:00 AM				
Surrogate												
PCNB	LB	86	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	03/26/2003 12:00 AM				
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AM				

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MDL = Method Detection Limit

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

BWSC DIV RESPONSE & REMEDIATION

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

				, common zutu				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	· ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AM
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AM
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AM
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/26/2003 12:00 AN
=								

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

Analysis Report for Login Batch:

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

2003005 **Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### Contact: **Quality Control Data** Spike Conc. Spike Units Analyte/Compound QC Type Result Units Acceptance Criteria Method **Analysis Date** PCB Congener BZ# 153 ND ND Modified AOAC 983.21 03/26/2003 12:00 AM LB ug/g wet NA PCB Congener BZ# 187 LB ND ug/g wet ND Modified AOAC 983.21 NA 03/26/2003 12:00 AM ND PCB Congener BZ# 195 LB ND ug/g wet Modified AOAC 983.21 NA 03/26/2003 12:00 AM ND LB ND Modified AOAC 983.21 NA 03/26/2003 12:00 AM PCB Congener BZ# 206 ug/g wet ND ND Modified AOAC 983.21 NA 03/26/2003 12:00 AM PCB Congener BZ# 209 LB ug/g wet Lipid Concentration = 0.62% Surrogate **PCNB** 78 60 - 140 LB % Recovery Modified AOAC 983.21 0.050 03/27/2003 12:00 AM ug/g wet ND ND Modified AOAC 983.21 03/27/2003 12:00 AM PCB A1232 LB ug/g wet PCB A1242 LB ND ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet LB ND ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM **PCB A1248** ug/g wet PCB A1254 LB ND ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet ND **PCB A1260** LB ND ug/g wet Modified AOAC 983.21 NA 03/27/2003 12:00 AM PCB Toxic Congener BZ# 77 LB ND ug/g wet ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM ND LB ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM PCB Toxic Congener BZ# 81 ug/g wet PCB Toxic Congener BZ# 105 LB ND ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet LB ND ND PCB Toxic Congener BZ# 114 ug/g wet Modified AOAC 983.21 NA 03/27/2003 12:00 AM PCB Toxic Congener BZ# 118 LB ND ug/g wet ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM PCB Toxic Congener BZ# 123 LB ND ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet PCB Toxic Congener BZ# 126 ND ND LB ug/g wet Modified AOAC 983.21 NA 03/27/2003 12:00 AM LB ND ND Modified AOAC 983.21 NA PCB Toxic Congener BZ# 156 ug/g wet 03/27/2003 12:00 AM LB ND ND Modified AOAC 983.21 NA PCB Toxic Congener BZ# 157 ug/g wet 03/27/2003 12:00 AM LB ND ND Modified AOAC 983.21 NA PCB Toxic Congener BZ# 167 03/27/2003 12:00 AM ug/g wet ND PCB Toxic Congener BZ# 169 LB ND ug/g wet Modified AOAC 983.21 NA 03/27/2003 12:00 AM PCB Toxic Congener BZ# 170 LB ND ug/g wet ND Modified AOAC 983.21 NA 03/27/2003 12:00 AM

LB

LB

ND

ND

ug/g wet

ug/g wet

PCB Toxic Congener BZ# 180

PCB Toxic Congener BZ# 189

ND

ND

Modified AOAC 983.21 NA

Modified AOAC 983.21 NA

03/27/2003 12:00 AM

03/27/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

NA = Not applicable

Analysis Report for Login Batch:

2003005

Prepared For:

Contact:

BWSC DIV RESPONSE & REMEDIATION

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Contact:		<del></del>						
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Af
PCB Congener BZ# 209 Lipid Concentration = 0.58%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
Surrogate						-, ,		
PCNB	LFB	76	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	03/24/2003 12:00 AM
PCB A1232	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 Af
PCB A1242	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 Al
PCB A1248	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 Af
PCB A1254	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 Al
PCB A1260	LFB	112	% Recovery	60 - 140	Modified AOAC 983.21	0.50	ug/g wet	03/24/2003 12:00 Af
PCB Toxic Congener BZ# 77	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 81	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 105	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 Al
PCB Toxic Congener BZ# 114	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AI
PCB Toxic Congener BZ# 118	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 Af
-								

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 77 of 82

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

			Quali	ty Control Data				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Toxic Congener BZ# 123	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 126	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 156	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 157	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 167	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 169	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 170	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Toxic Congener BZ# 189	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 8	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 18	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 28	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 44	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 52	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 66	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 101	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 128	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 138	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 153	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 187	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 195	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 206	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 0.54%	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/24/2003 12:00 AM
Surrogate					· · · · · · · · · · · · · · · · · · ·			
PCNB	LFB	92	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	03/27/2003 12:00 AM
PCB A1232	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM

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H = USEPA holding time exceeded

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MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003005

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

				•				
Analyte/Compound	QC Type	<u>Result</u>	<u>Units</u>	Acceptance Criteria	<u>Method</u>	Spike Conc.	Spike Units	<b>Analysis Date</b>
PCB A1242	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB A1248	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB A1254	LFB	112	% Recovery	60 - 140	Modified AOAC 983.21	0.49	ug/g wet	03/27/2003 12:00 AM
PCB A1260	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 77	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 81	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 105	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 114	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 118	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 123	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 126	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 156	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 157	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 167	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 169	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 170	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 189	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 8	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 18	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 28	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 44	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 52	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 66	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 101	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 128	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 138	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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MDL = Method Detection Limit

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003005

**Quality Control Data** 

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### Analyte/Compound QC Type Result Units Acceptance Criteria Method Spike Conc. Spike Units Analysis Date PCB Congener BZ# 153 LFB ND % Recovery 60 - 140 Modified AOAC 983.21 NA ug/g wet 03/27/2003 12:00 AM 60 - 140 PCB Congener BZ# 187 LFB ND % Recovery Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet PCB Congener BZ# 195 LFB ND 60 - 140% Recovery Modified AOAC 983.21 NA ug/g wet 03/27/2003 12:00 AM LFB ND PCB Congener BZ# 206 % Recovery 60 - 140 Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet PCB Congener BZ# 209 LFB ND % Recovery 60 - 140 Modified AOAC 983.21 NA 03/27/2003 12:00 AM ug/g wet

Lipid Concentration = 0.57%							ug.ge.	00.27,2000 12.007 111
Surrogate								
PCNB	LFM	80	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	03/26/2003 12:00 AM
PCB A1232	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB A1242	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB A1248	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB A1254	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB A1260	LFM	96	% Recovery	60 - 140	Modified AOAC 983.21	0.49	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 77	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 81	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 105	LFM:	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 114	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 118	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 123	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 126	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 156	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 157	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 167	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 169	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 170	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Toxic Congener BZ# 189	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM

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Analysis Report for Login Batch: 2003005

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact: Project Coordinator: Paul Craffey

			Quali	ty Control Data				:
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Congener BZ# 8	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 18	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 28	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 44	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 52	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 66	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 101	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 128	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 138	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 153	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 187	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 195	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 206	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 0.55%	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/26/2003 12:00 AM
Sample Lab ID#: 20	03005-012							
<u>Surrogate</u>								
PCNB	Samp DUP	80	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	03/25/2003 12:00 AM
PCB A1232	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1242	Samp DUP	7.2	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1248	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1254	Samp DUP	1.7	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB A1260	Samp DUP	2.6	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 77 Compound quantitated from se	Samp DUP condary column	6.2 . No MDL ger	RPD nerated from sec	0 - 25 ondary column.	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 81	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 105	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

EPA #: MA00019

Analysis Report for Login Batch: 2003005

Prepared For: **Contact:** 

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### Quality Control Data

			Qu	ality Control Data				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Toxic Congener BZ# 114	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 118	Samp DUP	4.8	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Toxic Congener BZ# 123	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Toxic Congener BZ# 126	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 156	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 157	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Toxic Congener BZ# 167	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Toxic Congener BZ# 169	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 170	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Toxic Congener BZ# 180	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Toxic Congener BZ# 189	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 8	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 18	Samp DUP	5.4	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Congener BZ# 28	Samp DUP	2.7	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 44	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 52	Samp DUP	3.6	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Congener BZ# 66	Samp DUP	2.1	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 101	Samp DUP	5.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Congener BZ# 128	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Congener BZ# 138	Samp DUP	3.3	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 153	Samp DUP	2.9	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Congener BZ# 187	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AN
PCB Congener BZ# 195	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 206	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
PCB Congener BZ# 209	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM
Sample Lab ID#: 20	003005-007							
Lipid Concentration	Samp DUP	17	RPD	0 - 25	Modified AOAC 983.21	NA		03/25/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

Report Print Date: 06/26/2003

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch:

2003005

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Page 82 of 82

Project Coordinator: Paul Craffey

			Qua	lity Control Data				2
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
Sample Lab ID#: 200	3005-007							
Solid Concentration	Samp DUP	6.7	RPD	0 - 20	Modified AOAC 950	.46B NA		05/08/2003 1:00 PI
Sample Lab ID#: 200	3005-001							
Solid Concentration	Samp DUP2	2.7	RPD	0 - 20	Modified AOAC 950	.46B NA		05/08/2003 1:00 Pi
Sample Lab ID#: 200	3006-001							
Solid Concentration	Samp DUP3	1.5	RPD	0 - 20	Modified AOAC 950	.46B NA		05/08/2003 1:00 P
Sample Lab ID#: 200	3006-002			•				
Solid Concentration	Samp DUP4	2.4	RPD	0 - 20	Modified AOAC 950	.46B NA		05/08/2003 1:00 P
Sample Lab ID#: 200	3006-021							
Solid Concentration	Samp DUP5	2.6	RPD	0 - 20	Modified AOAC 950	.46B NA		05/08/2003 1:00 PI
Sample Lab ID#: 200	3006-024							
	Δ	nnroved*·	0	20 1	Date: 05	5/20/2003		
*QA Level 1 and 2 Co				2. Carrello		5/20/2003	vailable unon i	remuest

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

### Appendix B





Commonwealth of Massachusetts **Executive Office of Environmental Affairs Department of Environmental Protection** Senator William X. Wall Experiment Station

### Sample Tracking/ Chain-of-Custody Record

Cooler Temperature at Receipt	-9	°C
-------------------------------	----	----

WES Sample Log-In #	16	(0)	00
---------------------	----	-----	----

Name: DEP/EPA Fish

Site Name: New Bedford Hbr

Case #:

Coordinator O. Pancorbo

### Region-Bureau-Division

NERO	SERO _
CERO	WERO _
Bureau:	

Division:

Phone: Fax:

(for sa	Analytical Laboratory (for samples sent to a laboratory other than WES)								
Name:									
Address:									
Contact:									
MA Cert#									
Phone#									

Field Locator	Client ID	Lab#	Collec	Collection		Collection		Collection		Receipt		Sample		Sample			Chlorine	
(within Site)	(Field #)	(Log-in # above plus # below)	Date	Time	Date	Time	G/C*	Matrix**	Preservative	Collector	Residual (yes/no)	Analysis Requested						
New Bedford Hbr. See attached MDMF sample												/						
data sheets	NBH02						G	FBT	Frozen	MUNE	No	213/Non3						
	<u></u>						G	FBT			No	Cad Cho loppe						
							G	FBT			No	Lead to Sil.						
			<u> </u>				G	FBT			No_	Po Capid						
							G	FBT			No_	1						
						<u></u>	G	FBT			No	N N						
							G	FBT			No	3						

\*G/C = Grab/Composite

Chain of Custody: (	signatures required only for	COC)							
	Relinquished by:					Received by:			
Printed name	Signature	Org.	Date	Time	Printed name	Signature	Org.	Date	Time
MAIT CHMISH	mant fan	ONF	1/3/03	95-	Carel Batdorf	Carol A Batter	DEF	1/3/03	P 35
						P			

#### \*\* MATRIX CODES

AC = Air Canister

ACT = Air Cartridge Tube

AF = Air Filter DW = Drinking Water FBT = Fish/Biological Tissue

FEC = Feces/Fecal Matter

GRYW = Grey Water GW = Ground Water

IWW = Industrial Wastewater LL = Landfill Leachate

LW = Liquid Waste

SED =-Sediment SOIL = Soil

SRW = Surface Water ME = Marine/Estuarine Water STW = Storm water/CSO SW = Solid Waste

UN = Unspecified Water/Wastewater

WO = Waste Oil

WW = POTW Wastewater

WWS = Wastewater Sludge

### FIELD COLLECTION FORM: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER MARINE FISHERIES STATION, 30 EMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH02 REQUESTED BY/AGENCY: Oscar Pancorbo / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Matthew Camisa SHIPPER: SAMPLE CONDITION: FRESH FROZEN X

		<del></del>			<del></del>		
COLLECTION DATE	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	スペランとで RESERVED FOR
DDMMYY	Fieldio		FieldLocator	EXH स		WETTOD	OFFICE USE
9/10/2002	NBH02-L-A-3	1 Lobster (2003act - a)	Station A Angelica Rock	NBH Area 3	041 34.664' 070 51.566'	Lobster Pots	Composites Obstació
		(composited ment					2003000-0.
18/10/2002	NBH02-L-A-3	1 Lobster 2013004-102	Station A Angelica Rock	NBH Area 3	041 34.664' 070 51.566'	Lobster Pots	
	NDI 102-L-A-5	to malley					a ec 3777 - 1
	<del> </del>	1	Station A	<del> </del>	041 34.664		
18/10/2002	NBH02-L-A-3	1 Lobster	Angelica Rock	NBH Area 3	070 51.566'	Lobster Pots	
	Norioz E // o	1					50.5600.70
		2-01 00:2	Station B	ļ	041 32.302'		0.003000000
18/10/2002	NBH02-L-B-3	1 Lobster 2003006-003	Radome R"8"	NBH Area 3	070 54.353	Lobster Pots	con post
		Meat		1			2003 100 100
		0.552001-00	Station B		041 32.302'		
18/10/2002	NBH02-L-B-3	1 Lobster 2503006-00\$	Radome R"8"	NBH Area 3	070 54.353'	Lobster Pots	
		<del> </del>	Station B		041 32.302'		
18/10/2002	NBH02-L-B-3	1 Lobster	Radome R"8"	NBH Area 3	070 54.353'	Lobster Pots	
			Station C		041 31.522'	_	e smpre entes
18/10/2002	NBH02-L-C-3	1 Lobster	SP Rock C"1"	NBH Area 3	070 56.268'	Lobster Pots	Mest Tomas
							Micor
		<del></del>	Station C		041 31.522'		
22/10/2002	NBH02-L-C-3	1 Lobster	SP Rock C"1"	NBH Area 3	070 56.268'	Lobster Pots	
		Ì	1				000
<del></del>	<del> </del>	<del>                                     </del>	Station C	<del>}</del>	041 31.522'		
22/10/2002	NBH02-L-C-3	1 Lobster	SP Rock C"1"	NBH Area 3	070 56.268'	Lobster Pots	
							688
	+		Station D	<del> </del>	041 31.861'		17 7 MEZT
18/10/2002	NBH02-L-D-3	1 Lobster	Sand Spit R"4"	NBH Area 3	070 54.799'	Lobster Pots	cl's Tenal
	<u> </u>		<u> </u>	<u> </u>	<u> </u>	L	1081

### FIELD COLLECTION FORM: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER MARINE FISHERIES STATION, 30 EMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH02	REQUESTED BY/AGENC	Y: Oscar Pancorbo / Dept. Environmental Protection	_ ANALYSIS REQUES	STED:		
COLLECTOR: MDMF	Matthew Camisa	SHIPPER:	SAMPLE CONDITION:	FRESH	FROZEN	Χ

COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
22/10/2002	NBH02-L-D-3	1 Lobster	Station D Sand Spit R"4"	NBH Area 3	041 31.861' 070 54.799'	Lobster Pots	CC S)
25/10/2002	NBH02-L-D-3	1 Lobster	Station D Sand Spit R"4"	NBH Area 3	041 31.861' 070 54.799'	Lobster Pots	
22/10/2002	NBH02-L-E-3	1 Lobster	Station E Lone Rock N"4"	NBH Area 3	041 33.635' 070 54.926'	Lobster Pots	009-10021 016-1001216
22/10/2002	NBH02-L-E-3	1 Lobster	Station E Lone Rock N"4"	NBH Area 3	041 33.635' 070 54.926'	Lobster Pots	616
25/10/2002	NBH02-L-E-3	1 Lobster	Station E Lone Rock N"4"	NBH Area 3	041 33.635' 070 54.926'	Lobster Pots	in
25/10/2002	NBH02-L-A-2	1 Lobster	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Lobster Pots	OH Mezt
25/10/2002	NBH02-L-A-2	1 Lobster	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Lobster Pots	0/5
25/10/2002	NBH02-L-A-2	1 Lobster	Station A SMAST Pier	NBH Area 2	041 35.556' 070 54.669'	Lobster Pots	613
29/10/2002	NBH02-L-B-2	1 Lobster	Station B Sconticut Neck	NBH Area 2	041 35.938' 070 52.043'	Lobster Pots	013 Mean 014 Tomail
29/10/2002	NBH02-L-B-2	1 Lobster	Station B Sconticut Neck	NBH Area 2	041 35.938' 070 52.043'	Lobster Pots	5/2

### FIELD COLLECTION FORM: DIVISION OF MARINE FISHERIES, ANNISQUAM RIVER MARINE FISHERIES STATION, 30 EMERSON AVE., GLOUCESTER, MA 01930

PROJECT #: NBH02 REQUESTED BY/AGENCY; Oscar Pancorbo / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Matthew Camisa SHIPPER: SAMPLE CONDITION: FRESH FROZEN X

			<del></del>	·			2003006
COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
29/10/2002	NBH02-L-B-2	1 Lobster	Station B Sconticut Neck	NBH Area 2	041 35.938' 070 52.043'	Lobster Pots	C146
29/10/2002	NBH02-L-C-2	1 Lobster	Station C Ricketsons Pt.	NBH Area 2	041 34.785' 070 55.936'	Lobster Pots	015-mest 016-Tompley 016-t
29/10/2002	NBH02-L-C-2	1 Lobster	Station C Ricketsons Pt.	NBH Area 2	041 34.785' 070 55.936'	Lobster Pots	C168
29/10/2002	NBH02-L-C-2	1 Lobster	Station C Ricketsons Pt.	NBH Area 2	041 34.785' 070 55.936'	Lobster Pots	C16 C
29/10/2002	NBH02-L-D-2	1 Lobster	Station D E-Fort Rodman	NBH Area 2	041 35.767' 070 53.922'	Lobster Pots	018 Timothy 018 Timothy
31/10/2002	NBH02-L-D-2	1 Lobster	Station D E-Fort Rodman	NBH Area 2	041 35.767' 070 53.922'	Lobster Pots	0183
31/10/2002	NBH02-L-D-2	1 Lobster	Station D E-Fort Rodman	NBH Area 2	041 35.767' 070 53.922'	Lobster Pots	0186
14/11/2002	NBH02-L-E-2	1 Lobster	Station E Fort Phoenix	NBH Area 2	041 37.422' 070 54.171'	Lobster Pots	ON Mest ON Tamping
14/11/2002	NBH02-L-E-2	1 Lobster	Station E Fort Phoenix	NBH Area 2	041 37.422' 070 54.171'	Lobster Pots	
2011/2002	NBH02-L-E-2	1 Lobster	Station E Fort Phoenix	NBH Area 2	041 37.422' 070 54.171'	Lobster Pots	<u>020 B</u>
1			<u></u>	<u> </u>		L	1 20 C

4

PROJECT #: NBH02 REQUESTED BY/AGENCY: Oscar Pancorbo / Dept. Environmental Protection ANALYSIS REQUESTED:

COLLECTOR: MDMF Matthew Camisa SHIPPER: SAMPLE CONDITION: FRESH FROZEN X

			T	1	<del></del>	<del></del>	2003006
COLLECTION DATE DDMMYY	COLLECTION/TAG #	SPECIES & # IN SAMPLE	STATION I.D.	LOCATION	LAT/LONG DEG. MIN.	COLLECTION METHOD	RESERVED FOR OFFICE USE
8/11/2002	NBH02-FF-A-1	1 Winter Flounder	Station A W-Barrier Open	NBH Area 1	041 37.465' 070 54.519'	Lobster Pot	021
25/11/2002	NBH02-FF-B-1	1 Winter Flounder	Station B 195 Overpass	NBH Area 1	041 39.307' 070 55.009'	NN Fish Pot	_ 022
25/11/2002	NBH02-FF-A-1	1 American Eel	Station A 195 Overpass	NBH Area 1	041 39.266' 070 55.098'	NN Fish Pot	<i>U</i> 23
25/11/2002	NBH02-FF-B-1	1 American Eel	Station B W-lighthouse	NBH Area 1	041 37.535' 070 54.703'	NN Fish Pot	124
13/12/2002	NBH02-FF-C-1	1 American Eel	Station C SW-Culvert	NBH Area 1	041 37.243' 070 54.856'	Eel pot	U 5 F
13/12/2002	NBH02-FF-D-1	1 American Eel	Station D Marina	NBH Area 1	041 39.221' 070 54.934'	Eel pot	024

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact: Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-001	Site: AREA III	. 1			Matrix:	FBT	Collect Date: 10/09/2002 12:00
Sample Field ID#: NBH02-L-A-3	Locator: Station A	Angelica Rock			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	0.045	mg/Kg wet	0.004	0.012	EPA 200.7		04/28/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.004	0.012	EPA 200.7		04/28/2003 10:00 AM Approved
Copper	30	mg/Kg wet	0.004	0.012	EPA 200.7		04/28/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.039	0.12	EPA 200.7		04/28/2003 10:00 AM Approved
Surrogate			Acceptano	e Criteria	1		
PCNB	84	% Recovery	/· 60 ·	- 140	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	8000.0	0.0024	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.0073	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0013 M	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-001	Site: AREA III	nalion Deals			Matrix:	FBT	Collect Date: 10/09/2002 12:00 PM
Sample Field ID#: NBH02-L-A-3	Locator: Station A An	gelica Rock			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date Status
PCB Congener BZ# 18	ND	ug/g wet	0.0016	0.0048	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 52	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 66	0.0044 M	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983,21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0018 M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0075	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 153	0.014	ug/g wet	0.0014	0.0042	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
Lipid Concentration	0.26	%			Modified AC	DAC 983.21	03/27/2003 12:00 AM Approved
Solid Concentration	22	%			Modified AC	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	Lobster Meat				Fish Proces	sing SOP	03/18/2003 1:00 PM Approved
Weight	336	g wet			Fish Proces	sing SOP	03/18/2003 1:00 PM Approved
Sample Lab ID#: 2003006-002	Site: AREA III			:	Matrix:	FBT	Collect Date: 10/09/2002 12:00 PM
Sample Field ID#: NBH02-L-A-3	Locator: Station A An	gelica Rock			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	5.6	mg/Kg wet	0.036	0.11	EPA 200.7		04/28/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.036	0.11	EPA 200.7		04/28/2003 10:00 AM Approved
Copper	59	mg/Kg wet	0.036	0.11	EPA 200.7		04/28/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.36	1.1	EPA 200.7		04/28/2003 10:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

NA = Not applicable

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:

2003006-002 Sample Field ID#: NBH02-L-A-3 Site:

AREA III

Locator: Station A Angelica Rock

Matrix: Collector:

**FBT** Camisa, M **Collect Date:** 

10/09/2002 12:00 PM

Receive Date: 01/03/2003 9:55 AM

Analyte/Compound	Result	<u>Units</u>	MDL	<u>RDL</u>	<u>Method</u>	<b>Analysis Date</b>	<u>Status</u>
<u>Surrogate</u>			Acceptan	ce Criteria	1		
PCNB	90	% Recovery	60	- 140	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1242	0.59	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1254	0.36 M	ug/g wet	0.13	0.39	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1260	0.61 M	ug/g wet	0.22	0.66	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	0.24	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	0.023 M	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	1.3	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	0.11	ug/g wet	0.011	0.033	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	0.039	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	0.082	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	0.13	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 18	0.035 M	ug/g wet	0.016	0.048	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.16	ug/g wet	0.033	0.099	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 52	0.039 M	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For: **Contact:** 

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003006-002	Site:	AREA III				Matrix:	FBT	Collect Date:	10/09/2002	12:00 PM
Sample Field ID#: NBH02-L-A-3	Locator:	Station A An	gelica Rock			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>s</u>	tatus
PCB Congener BZ# 66	0.26	<b>6</b>	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 101	0.17	7	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 128	0.13	3	ug/g wet	0.012	0.036	Modified AC	OAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 138	1.0		ug/g wet	0.017	0.051	Modified AC	DAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 153	1.6		ug/g wet	0.014	0.042	Modified A	DAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 187	0.13	3	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 195	ND		ug/g wet	0.011	0.033	Modified AC	DAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 206	ND		ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/07/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 209	ND		ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/07/2003 12:0	0 AM Appro	ved
MDLs and RLs reflect 10X dilution.										
Lipid Concentration	17		%			Modified AC	OAC 983.21	04/07/2003 12:0	0 AM Appro	ved
Solid Concentration	33		%			Modified AC	OAC 950.46B	05/08/2003 1:00	PM Appro	ved
Species	Lob	ster Tomalley				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Weight	49		g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Sample Lab ID#: 2003006-002A	Site:	AREA III				Matrix:	FBT	Collect Date:	10/09/2002	12:00 PM
Sample Field ID#: NBH02-L-A-3A	Locator:	Station A Ar	ngelica Rock			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>\$</u>	tatus
Length	77.	5	mm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Abnormalities						Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Minor shell rot on cephalothorax, m	alformed c	rushing claw	•							
Sex	Mal	le				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Claw Type	Nor	mal				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Shell Type	Har	rd .				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Lobster Meat Composite Sample ID	200	3006-001				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Lobster Tomalley Composite Sample ID	200	3006-002				Fish Proces	seina SOP	03/18/2003 1:00	PM Appro	worl

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Prepared For:

Contact:

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003006

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Oomao.						• • •	oject occium	ator, radir orano	,		
Sample Lab ID#:	2003006-002A	Site:	AREA III				Matrix:	FBT	Collect Date:	10/09/2002	12:00 PM
Sample Field ID#:	NBH02-L-A-3A	Locator:	Station A An	gelica Rock			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#:	2003006-002B	Site:	AREA III				Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#:	NBH02-L-A-3B	Locator:	Station A An	igelica Rock			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S</u> f	atus
Length		84.	5	mm			Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Abnormalities		She	ell rot				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Sex		Mal	le		•		Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Claw Type		Nor	mal				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Shell Type		Har	rd				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Approv	ved
Lobster Meat Con	nposite Sample ID	200	3006-001				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Lobster Tomalley	Composite Sample ID	200	3006-002				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Sample Lab ID#:	2003006-002C	Site:	AREA III				Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#:	NBH02-L-A-3C	Locator:	Station A An	igelica Rock			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	nd	Res	sult	Units	MDL	RDL	Method		Analysis Date	<u>S</u> 1	atus
Length		76.	5	mm			Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Less than 75%	of the weight of 2003	3006-002B							•		
Abnormalities							Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Tomailey very	liquid										
Sex		Fer	nale				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Claw Type		Cul	i				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Shell Type		Har	rd .				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Lobster Meat Con	nposite Sample ID	200	3006-001				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved
Lobster Tomalley	Composite Sample ID	200	3006-002				Fish Proce	ssing SOP	03/18/2003 1:00	0 PM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003006-003 Sample Field ID#: NBH02-L-B-3	Site: AREA III Locator: Station B Radom	e R8			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/18/2002 12:00 F Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	<u>Jnits</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	0.067	ng/Kg wet	0.007	0.022	EPA 200.7		04/28/2003 10:00 AM Approved
Chromium	ND t	ng/Kg wet	0.007	0.022	EPA 200.7		04/28/2003 10:00 AM Approved
Copper	29	ng/Kg wet	0.007	0.022	EPA 200.7		04/28/2003 10:00 AM Approved
Lead	ND I	ng/Kg wet	0.074	0.22	EPA 200.7		04/28/2003 10:00 AM Approved
Surrogate		A	cceptan	ce Criteria	 1		
PCNB	78	% Recovery	60	- 140	Modified AC	AC 983.21	03/31/2003 12:00 AM Approved
PCB A1232	ND (	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1248	ND I	ug/g wet	0.038	0.11	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1260	ND t	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND t	ıg/g wet	8000.0	0.0024	Modified AC	AC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND t	ıg/g wet	0.0010	0.0030	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	ND t	ıg/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.0064	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND I	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND 1	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

					•	-	
Sample Lab ID#: 2003006-003 Sample Field ID#: NBH02-L-B-3	Site: AREA III Locator: Station B Ra	dome R8			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/18/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
PCB Congener BZ# 18	0.0021 M	ug/g wet	0.0016		Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033			DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010		Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 52	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 66	ND	ug/g wet	0.0022		Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 101	ND:	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 128	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0044 M	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 153	0.0082	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
Lipid Concentration	0.19	%			Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
Solid Concentration	22	%			Modified AC	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	Lobster Meat				Fish Proces	ssing SOP	03/18/2003 1:00 PM Approved
Weight	436	g wet			Fish Proces	ssing SOP	03/18/2003 1:00 PM Approved
Sample Lab ID#: 2003006-004	Site: AREA III				Matrix:	FBT	Collect Date: 10/18/2002 12:00 PM
Sample Field ID#: NBH02-L-B-3	Locator: Station B Ra	dome R8			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	6.6	mg/Kg wet	0.024	0.071	EPA 200.7		04/28/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.024	0.071	EPA 200.7		04/28/2003 10:00 AM Approved
Copper	250	mg/Kg wet	0.024	0.071	EPA 200.7		04/28/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.24	0.71	EPA 200.7		04/28/2003 10:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencles

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact:

2003006-004

AREA III Sample Lab ID#: Site: Matrix: FBT **Collect Date:** 10/18/2002 12:00 PM Sample Field ID#: NBH02-L-B-3 Station B Radome R8 Locator: Collector: Camisa, M Receive Date: 01/03/2003 9:55 AM

Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	<b>Analysis Date</b>	<u>Status</u>
Surrogate			Acceptan	ce Criteria	1		
PCNB	92	% Recovery	60	- 140	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1242	0.42 M	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1254	0.55	ug/g wet	0.13	0.39	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1260	1.2	ug/g wet	0.22	0.66	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	0.21	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	0.013 M	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	1.3	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	0.17	ug/g wet	0.011	0.033	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	0.059	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	0.10	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	0.10	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	0.24	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 18	0.024 M	ug/g wet	0.016	0.048	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.083 M	ug/g wet	0.033	0.099	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 52	ND	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA#: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

						.,		•		
Sample Lab ID#: 2003006-004 Sample Field ID#: NBH02-L-B-3	Site: Locator:	AREA III Station B Rad	ome R8			Matrix: Collector:	FBT Camisa, M	Collect Date: 10 Receive Date: 0	0/18/2002 1/03/2003	12:00 PN 9:55 AN
Analyte/Compound	Res	<del></del>	Units	MDL	RDL	Method		Analysis Date		atus
PCB Congener BZ# 66	0.19		ug/g wet	0.022	0.066		OAC 983.21	04/07/2003 12:00		
PCB Congener BZ# 101	ND	,	ug/g wet	0.022	0.066		OAC 983.21	04/07/2003 12:00		
PCB Congener BZ# 128	0.22	,	ug/g wet	0.012	0.036		OAC 983.21	04/07/2003 12:00		
PCB Congener BZ# 138	1.3	-		0.012	0.050		OAC 983.21	04/07/2003 12:00		
•	1.9		ug/g wet	0.017	0.042		OAC 983.21		• • •	
PCB Congener BZ# 153		,	ug/g wet		0.042		OAC 983.21	04/07/2003 12:00	• • •	
PCB Congener BZ# 187	0.19	,	ug/g wet	0.022				04/07/2003 12:00		
PCB Congener BZ# 195	ND		ug/g wet	0.011	0.033		OAC 983.21	04/07/2003 12:00		
PCB Congener BZ# 206	ND		ug/g wet	0.012	0.036		OAC 983.21	04/07/2003 12:00		
PCB Congener BZ# 209	ND		ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/07/2003 12:00	AM Approv	rea
MDLs and RLs reflect 10X dilution.			•			44. 126. 1.4.	0.4.0.000.04	0.1/07/0000 40.00		
Lipid Concentration	25		%				OAC 983.21	04/07/2003 12:00	• •	
Solid Concentration	38		%				OAC 950.46B	05/08/2003 1:00 P		
Species		ster Tomalley				Fish Proce	•	03/18/2003 1:00 P		
Weight	56		g wet			Fish Proce	ssing SOP	03/18/2003 1:00 P	M Approv	red
Sample Lab ID#: 2003006-004A	Site:	AREA III	1.40.61			Matrix:	FBT	Collect Date: 1	0/18/2002	12:00 PM
Sample Field ID#: NBH02-L-B-3A	Locator:	Station B Rad	ome R8			Collector:	Camisa, M	Receive Date: 0	1/03/2003	9:55 AN
Analyte/Compound	Res	ult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length	84.3	3	mm			Fish Proce	ssing SOP	03/18/2003 1:00 P	M Approv	/ed
Abnormalities						Fish Proce	ssing SOP	03/18/2003 1:00 P	M Approv	<i>r</i> ed
Extensive shell rot over entire bod	у									
Sex	Mai	e				Fish Proce	ssing SOP	03/18/2003 1:00 P	M Approv	red .
Claw Type	Nor	mal				Fish Proce	ssing SOP	03/18/2003 1:00 P	M Approv	red .
Shell Type	Har	d				Fish Proce	ssing SOP	03/18/2003 1:00 P	M Approv	red
Lobster Meat Composite Sample ID						Fish Proce	ssing SOP	03/18/2003 1:00 P	• •	
Fonzier Medi Combosite Samble in	200	3006-003				1 1311 1 1006	Joning OCI	03/10/2003 1.00 F	IN APPION	eu

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

Prepared For: BWSC DIV RESPONSE & REMEDIATION

Project Name:

2003006

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

Contact:				Pr	oject Coordin	ator: Paul Craffey	1		
Sample Lab ID#: 2003006-004A	Site: A	REA III			Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-B-3A	Locator: S	station B Radome R8	-		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Sample Lab ID#: 2003006-004B	Site: A	REA III			Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-B-3B	Locator: S	station B Radome R8			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Resul	t <u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	81.7	mm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Abnormalities	Shell r	ot			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ed .
Sex	Male		•		Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Claw Type	Norma	al			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red .
Shell Type	Hard				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Lobster Meat Composite Sample ID	20030	06-003			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Lobster Tomalley Composite Sample ID	20030	06-004			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ed .
Sample Lab ID#: 2003006-004C	Site: A	REA III			Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-B-3C	Locator: S	station B Radome R8			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Resul	t <u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Length	80.1	mm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Abnormalities	Shell r	rot			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Sex	Male				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red .
Claw Type	Norma	al			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ed .
Shell Type	Hard				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red .
Lobster Meat Composite Sample ID	20030	06-003			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	red
Lobster Tomalley Composite Sample ID	20030	06-004			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ed .
Sample Lab ID#: 2003006-005	Site: A	REA III			Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-C-3	Locator: S	Station C SP Rock C 1			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Resul	t Units	MDL	RDL	Method		Analysis Date		atus

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

**Contact:** 

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003006-005 Sample Field ID#: NBH02-L-C-3	Site: AREA III Locator: Station C	SP Rock C 1			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/18/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Sta	tus
Cadmium	0.085	mg/Kg wet	0.010	0.030	EPA 200.7		04/28/2003 10:0	00 AM Approve	ed ed
Chromium	ND	mg/Kg wet	0.010	0.030	EPA 200.7		04/28/2003 10:0	00 AM Approve	ed
Copper	23	mg/Kg wet	0.010	0.030	EPA 200.7		04/28/2003 10:0	00 AM Approve	ed
Lead	ND	mg/Kg wet	0.10	0.30	EPA 200.7		04/28/2003 10:0	00 AM Approve	ed
Surrogate			Acceptan	ce Criteri	<u>a</u>				, <sub>100</sub>
PCNB	82	% Recover	y · 60	- 140	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approv	/ed
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	AC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	AC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	AC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	AC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	AC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	AC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 105	0.0030 M	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 114	0.0070	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 118	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 156	0.0016 M	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 180	0.0025 M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approvi	ed
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approve	ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact.					110	ject Coolum	ator. I au Orane,	•		
Sample Lab ID#: 2003006-005 Sample Field ID#: NBH02-L-C-3	Site: Locator:	AREA III Station C SP	Rock C 1			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/18/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Res	<u>sult</u>	Units	MDL	RDL	Method		Analysis Date	St	atus
PCB Congener BZ# 18	ND		ug/g wet	0.0016	0.0048	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 28	ND		ug/g wet	0.0033	0.0099	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 44	ND		ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 52	ND		ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 66	ND		ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 101	ND		ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:0	O AM Appro	ved
PCB Congener BZ# 128	0.0	025M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:0	O AM Approv	veď
PCB Congener BZ# 138	0.0	074	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	03/31/2003 12:0	O AM Appro	ved
PCB Congener BZ# 153	0.0	17	ug/g wet	0.0014	0.0042	Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 187	0.0	024 M	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:0	O AM Appro	ved
PCB Congener BZ# 195	ND		ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/31/2003 12:0	O AM Approv	ved
PCB Congener BZ# 206	ND		ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 209	ND		ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	03/31/2003 12:0	00 AM Appro	ved
Lipid Concentration	0.2	1	%			Modified AC	OAC 983.21	03/31/2003 12:0	00 AM Appro	ved
Solid Concentration	18		%			Modified AC	OAC 950.46B	05/08/2003 1:06	PM Appro	ved
Species	Lot	ster Meat				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Weight	381	I	g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Sample Lab ID#: 2003006-006	Site:	AREA III				Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-C-3	Locator:	Station C SP	Rock C 1			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Res	sult	<u>Units</u>	MDL.	RDL	Method		Analysis Date	<u>S1</u>	atus
Cadmium	4.8		mg/Kg wet	0.020	0.060	EPA 200.7		04/28/2003 10:0	00 AM Appro	ved
Chromium	ND		mg/Kg wet	0.020	0.060	EPA 200.7		04/28/2003 10:0	00 AM Appro	ved
Copper	330	)	mg/Kg wet	0.020	0.060	EPA 200.7		04/28/2003 10:0	00 AM Appro	ved
Lead	ND		mg/Kg wet	0.20	0.60	EPA 200.7		04/28/2003 10:0	OO AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

NA = Not applicable

and/or qualitative ID deficiencles

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab IU#:	2003006-006	Site:	AREA III			matrix:	FBI	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#:	NBH02-L-C-3	Locator:	Station C SP Roo	ck C 1		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
A			34		 001					_

Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>	<b>Analysis Date</b>	<u>Status</u>
Surrogate		£	cceptan	ce Criteria			
PCNB	96	% Recovery	60	- 140	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1242	ND	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1254	0.85	ug/g wet	0.13	0.39	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB A1260	2.1	ug/g wet	0.22	0.66	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	0.38	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	0.048	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	1.9	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	0.22	ug/g wet	0.011	0.033	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	0.10	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	0.19	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	0.23	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	0.48	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 18	ND	ug/g wet	0.016	0.048	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.17	ug/g wet	0.033	0.099	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 52	ND	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-006 Sample Field ID#: NBH02-L-C-3	Site: AREA III Locator: Station C SF	P Rock C 1			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/18/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	S	tatus
PCB Congener BZ# 66	0.24	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 101	0.21	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 128	0.37	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 138	1.4	ug/g wet	0.017	0.051	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 153	3.1	ug/g wet	0.014	0.042	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 187	0.43	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 195	0.020 M	ug/g wet	0.011	0.033	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 206	0.019 M	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 209	ND	ug/g wet	0.014	0.042	Modified AC	DAC 983.21	04/07/2003 12:0	00 AM Appro	ved
MDLs and RLs reflect 10X dilution.									
Lipid Concentration	16	%			Modified AC	OAC 983.21	04/07/2003 12:0	00 AM Appro	ved
Solid Concentration	31	%			Modified AC	OAC 950.46B	05/08/2003 1:00	PM Appro	ved
Species	Lobster Tomailey				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Weight	44	g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Sample Lab ID#: 2003006-006A	Site: AREA III				Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-C-3A	Locator: Station C SF	PRock C 1			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>s</u>	tatus
Length	84.8	mm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Abnormalities	None				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Sex	Male				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Claw Type	Normal				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Shell Type	Hard				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Lobster Meat Composite Sample ID	2003006-005				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved
Lobster Tomalley Composite Sample ID	2003006-006				Fish Proces	ssing SOP	03/18/2003 1:00	PM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003006-006B	Site: AREA III	Deals C 4			Matrix:	FBT	Collect Date:	10/22/2002	12:00 PM
Sample Field ID#: NBH02-L-C-3B	Locator: Station C SP	ROCK C 1			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		<b>Analysis Date</b>	<u>St</u>	<u>atus</u>
Length	83.2	mm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Abnormalities					Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Minor shell rot, one spot less than s	ize of a dime								
Sex	Male				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Claw Type	Normal				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Shell Type	Hard				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Lobster Meat Composite Sample ID	2003006-005				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Lobster Tomalley Composite Sample ID	2003006-006				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Sample Lab ID#: 2003006-006C	Site: AREA III				Matrix:	FBT	Collect Date:	10/22/2002	12:00 PM
Sample Field ID#: NBH02-L-C-3C	Locator: Station C SP	Rock C 1			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length	82.6	mm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Abnormalities					Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Minor shell rot, three spots totalling	less than the size of a qu	uarter							
Sex	Male				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ved
Claw Type	Normal				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Shell Type	Hard				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ved .
Lobster Meat Composite Sample ID	2003006-005				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ved .
Lobster Tomalley Composite Sample ID	2003006-006				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ved .
Sample Lab ID#: 2003006-007	Site: AREA III				Matrix:	FBT	Collect Date:	10/18/2002	12:00 PM
Sample Field ID#: NBH02-L-D-3	Locator: Station D San	d Spit R 4	·		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atu <u>s</u>
Cadmium	0.039	mg/Kg wet	0.009	0.028	EPA 200.7		04/28/2003 10:0	00 AM Annroy	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:         2003006-007           Sample Field ID#:         NBH02-L-D-3	Site: AREA III Locator: Station D	Sand Spit R 4			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/18/2002 12:00 PN 01/03/2003 9:55 AN
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Status
Chromium	ND	mg/Kg wet	0.009	0.028	EPA 200.7		04/28/2003 10:0	0 AM Approved
Copper	29	mg/Kg wet	0.009	0.028	EPA 200.7		04/28/2003 10:0	0 AM Approved
Lead	ND	mg/Kg wet	0.092	0.28	EPA 200.7		04/28/2003 10:0	0 AM Approved
Surrogate			Acceptan	ce Criteri	<u>a</u>			
PCNB	80	% Recovery	y 60	- 140	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 118	0.0068	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 156	ND	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 180	ND	· ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	AC 983.21	03/31/2003 12:0	0 AM Approved
PCB Congener BZ# 18	ND	ug/g wet	0.0016	0.0048	Modified AC	OAC 983.21	03/31/2003 12:0	0 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

B = Analyte detected in sample, and in LRB and/or

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

El A#. III/00013

Analysis Report for Login Batch:

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

2003006

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-007 Sample Field ID#: NBH02-L-D-3	Site: AREA III Locator: Station D S	and Spit R 4			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/18/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 52	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 66	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0012 M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0058	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 153	0.0099	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
Lipid Concentration	0.23	%			Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
Solid Concentration	22	%			Modified AC	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	Lobster Meat				Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Weight	443	g wet			Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Sample Lab ID#: 2003006-008	Site: AREA III				Matrix:	FBT	Collect Date: 10/18/2002 12:00 PM
Sample Field ID#: NBH02-L-D-3	Locator: Station D S	and Spit R 4			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	7.5	mg/Kg wet	0.030	0.090	EPA 200.7		04/29/2003 10:00 AM Approved
Chromium	0.13	mg/Kg wet	0.030	0.090	EPA 200.7		04/29/2003 10:00 AM Approved
Copper	150	mg/Kg wet	0.030	0.090	EPA 200.7		04/29/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.30	0.90	EPA 200.7		04/29/2003 10:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-008

Site:

AREA III

Matrix: Collector **FBT** Camisa M Collect Date: 10/18/2002 Pacaiva Data: 01/03/2003

12:00 PM

Q-55 AM

Sample Field ID#: NBH02-L-D-3	Locator: Station D	Sand Spit R 4			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Sta	atus
Surrogate		E	cceptan	ce Criter	<u>a</u>				
PCNB	94	% Recovery	60	- 140	Modified AC	AC 983.21	04/08/2003 12:0	AM Appro	ved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB A1242	ND	ug/g wet	0.19	0.57	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB A1254	ND	ug/g wet	0.13	0.39	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB A1260	0.48 M	ug/g wet	0.22	0.66	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	ed
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 105	0.21	ug/g wet	0.013	0.039	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 114	0.020 M	ug/g wet	0.013	0.039	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 118	1.2	ug/g wet	0.012	0.036	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Toxic Congener BZ# 156	0.14	ug/g wet	0.011	0.033	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	red
PCB Toxic Congener BZ# 157	0.054	ug/g wet	0.012	0.036	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	/ed
PCB Toxic Congener BZ# 167	0.11	ug/g wet	0.012	0.036	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	red .
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	red
PCB Toxic Congener BZ# 170	0.074	ug/g wet	0.013	0.039	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red .
PCB Toxic Congener BZ# 180	0.14	ug/g wet	0.012	0.036	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	red
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	ed .
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	red
PCB Congener BZ# 18	ND	ug/g wet	0.016	0.048	Modified AC	AC 983.21	04/08/2003 12:0	OAM Approv	red
PCB Congener BZ# 28	0.080 M	ug/g wet	0.033	0.099	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AC	AC 983.21	04/08/2003 12:0	O AM Approv	red
PCB Congener BZ# 52	ND	ug/g wet	0.022	0.066	Modified AC	AC 983.21	04/08/2003 12:0	AM Approv	red

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

BWSC DIV RESPONSE & REMEDIATION

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003006 Sample Field ID#: NBH02-I		AREA or: Station	III D Sand Spit R 4			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/18/2002 01/03/2003	12:00 PN 9:55 AN
Analyte/Compound		Result	Units	MDL	RDL	Method		Analysis Date	Si	tatus
PCB Congener BZ# 66		0.20	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0		
PCB Congener BZ# 101		0.19	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 128		0.23	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 138		1.4	ug/g wet	0.017	0.051	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 153		1.9	ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 187	1	0.20	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 195		ND	ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 206		ND	ug/g wet	0.012	0.036	Modified A	DAC 983.21	04/08/2003 12:0	0 AM Appro	ved
PCB Congener BZ# 209		ND	ug/g wet	0.014	0.042	Modified A	DAC 983.21	04/08/2003 12:0	0 AM Appro	ved
MDLs and RLs reflect 1	OX dilution.									
Lipid Concentration	,	28	%			Modified A	DAC 983.21	04/08/2003 12:0	0 AM Appro	ved
Solid Concentration		36	%			Modified A	DAC 950.46B	05/08/2003 1:00	PM Appro	ved
Species		Lobster Tor	nailey			Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Weight		56	g wet			Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#: 2003006	-008A Site:	AREA	111			Matrix:	FBT	Collect Date:	10/18/2002	12:00 PI
Sample Field ID#: NBH02-I	D-3A Locato	r: Station	D Sand Spit R 4			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 A
Analyte/Compound		Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	S	tatus
Length		81.5	mm			Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Abnormalities						Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Minor rot on claws and	carapace									
Sex		Male				Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Claw Type		Normal				Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Shell Type		Hard				Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Meat Composite Sa	mple ID	2003006-00	)7			Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Tomalley Composit	e Sample ID	2003006-00	08			Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

QCS = Quality Control Sample (external to lab)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

oontaot.						.,				
Sample Lab ID#: 2003006-008A	Site:	AREA III				Matrix:	FBT	Collect Date:	10/18/2002	12:00 PN
Sample Field ID#: NBH02-L-D-3A	Locator:	Station D San	d Spit R 4			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Sample Lab ID#: 2003006-008B	Site:	AREA III				Matrix:	FBT	Collect Date:	10/22/2002	12:00 PM
Sample Field ID#: NBH02-L-D-3B	Locator:	Station D San	d Spit R 4	1		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Sta</u>	atus
Length	77.	9	mm			Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red
Abnormalities						Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ed
Minor rot on claws				•						
Sex	Fer	nale				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ed
Claw Type	Nor	mal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red
Shell Type	Har	rd				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ed
Lobster Meat Composite Sample ID	200	3006-007				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ed
Lobster Tomalley Composite Sample ID	200	3006-008				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red
Sample Lab ID#: 2003006-008C	Site:	AREA III				Matrix:	FBT	Collect Date:	10/25/2002	12:00 PM
Sample Field ID#: NBH02-L-D-3C	Locator:	Station D San	d Spit R 4	-		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound	Re	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length	83.	5	mm			Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	red
Abnormalities	No	ne				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	ed .
Sex	Ma	le				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	red
Claw Type	No	rmal				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	red
Shell Type	Hai	rd				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	red
Lobster Meat Composite Sample ID	200	03006-007				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	red
Lobster Tomalley Composite Sample ID	200	3006-008				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	ed .
Sample Lab ID#: 2003006-009	Site:	AREA III				Matrix:	FBT	Collect Date:	10/22/2002	12:00 PN
Sample Field ID#: NBH02-L-E-3	Locator:	Station E Lone	- D1. N. 4			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Sample Lab ID#: 2003006-009 Sample Field ID#: NBH02-L-E-3	Site: AREA III Locator: Station E I	one Rock N 4			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/22/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Sta	atus
Cadmium	0.034 M	mg/Kg wet	0.013	0.040	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed .
Chromium	0.016 M	mg/Kg wet	0.013	0.040	EPA 200.7		04/29/2003 10:0	0 AM Approv	red .
Copper	29	mg/Kg wet	0.013	0.040	EPA 200.7		04/29/2003 10:0	00 AM Approv	/ed
Lead	ND	mg/Kg wet	0.13	0.40	EPA 200.7		04/29/2003 10:0	00 AM Approv	ed .
Surrogate			Acceptan	ce Criteri	<u>a</u>				
PCNB	83	% Recover	y · 60	- 140	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB A1232	- ND	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	04/01/2003 12:0	0 AM Approv	/ed
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	red .
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	⁄ed
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/01/2003 12:0	0 AM Approv	red
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	red .
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	red .
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	ed .
PCB Toxic Congener BZ# 105	0.0029 M	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	red .
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 118	0.0087	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	04/01/2003 12:	00 AM Approv	/ed
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 156	0.0013 M	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	04/01/2003 12:	00 AM Approv	/ed
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	red .
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Toxic Congener BZ# 180	0.0019 M	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Approv	ed .
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	04/01/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified A0	OAC 983.21	04/01/2003 12:0	00 AM Approv	/ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

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R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

					,		
Sample Lab ID#: 2003006-009 Sample Field ID#: NBH02-L-E-3	Site: AREA III Locator: Station E L	one Rock N 4	·		Matrix: Collector:	FBT Camisa, M	Collect Date: 10/22/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
PCB Congener BZ# 18	ND ND	ug/g wet	0.0016	0.0048	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 52	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 66	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0021 M	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0078	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 153	0.015	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
Lipid Concentration	0.27	%			Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
Solid Concentration	20	%			Modified AC	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	Lobster Meat				Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Weight	499	g wet			Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Sample Lab ID#: 2003006-010	Site: AREA III				Matrix:	FBT	Collect Date: 10/22/2002 12:00 PM
Sample Field ID#: NBH02-L-E-3	Locator: Station E L	one Rock N 4			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
Cadmium	7.0	mg/Kg wet	0.038	0.12	EPA 200.7		04/29/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.038	0.12	EPA 200.7		04/29/2003 10:00 AM Approved
Copper	330	mg/Kg wet	0.038	0.12	EPA 200.7		04/29/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.38	1.2	EPA 200.7		04/29/2003 10:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:

Contact:

2003006-010

Site

AREA III

FBT

Collect Date:

10/22/2002

12:00 PM

Matrix: Sample Field ID#: NBH02-L-E-3 Locator: Station E Lone Rock N 4 Collector: Camisa, M Receive Date: 01/03/2003 9:55 AM

Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	<u>Method</u>	Analysis Date	<u>Status</u>
Surrogate		E	cceptan	ce Criteria	<u>1</u>		
PCNB	97	% Recovery	60	- 140	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB A1242	ND	ug/g wet	0.19	0.57	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB A1254	0.37 M	ug/g wet	0.13	0.39	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB A1260	1.1	ug/g wet	0.22	0.66	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 105	0.30	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 114	0.013 M	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 118	1.6	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 156	0.16	ug/g wet	0.011	0.033	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 157	0.059	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 167	0.12	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 170	0.11	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 180	0.25	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Congener BZ# 18	ND	ug/g wet	0.016	0.048	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.27	ug/g wet	0.033	0.099	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved
PCB Congener BZ# 52	0.093	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/08/2003 12:00 AM	Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Ourtage.						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>(4.5)</b> a.a. o.ao,			
Sample Lab ID#: 2003006-010 Sample Field ID#: NBH02-L-E-3	Site: Locator:	AREA III Station E Lor	ne Rock N 4			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/22/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Re	sult	Units	MDL	RDL	Method		Analysis Date	St	atus
PCB Congener BZ# 66	0.5		ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0		
PCB Congener BZ# 101	0.3	0	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 128	0.2	4	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 138	1.2		ug/g wet	0.017	0.051	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 153	2.1		ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 187	0.1	8	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 195	ND		ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 206	ND		ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 209	ND		ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
MDLs and RLs reflect 10X dilution.										
Lipid Concentration	21		%			Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
Solid Concentration	35		%			Modified A	OAC 950.46B	05/08/2003 1:00	PM Appro	ved
Species	Lot	oster Tomalley				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Weight	67		g wet			Fish Proce	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#: 2003006-010A	Site:	AREA III				Matrix:	FBT	Collect Date:	10/22/2002	12:00 PM
Sample Field ID#: NBH02-L-E-3A	Locator:	Station E Lo	ne Rock N			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S</u> 1	tatus
Length	90.	9	mm			Fish Proce	ssing SOP	03/19/2003 1:0	DPM Appro	ved
Abnormalities	No	ne				Fish Proce	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Sex	Fer	male				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Claw Type	No	rmal				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Shell Type	Ha	rd				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Lobster Meat Composite Sample ID	200	03006-009				Fish Proce	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Lobster Tomalley Composite Sample ID	200	03006-010				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:	2003006-010B	Site:	AREA III				Matrix:	FBT	Collect Date:	10/22/2002	12:00 PM
Sample Field ID#:	NBH02-L-E-3B	Locator:	Station E Lone	Rock N			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	<u>sult</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		<b>Analysis Date</b>	<u>\$1</u>	atus
Length		84.	.2	mm			Fish Proces	ssing SOP	03/19/2003 1:00	OPM Appro	ved
Abnormalities		Sh	ell rot				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sex		Fet	male				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Claw Type		No	rmal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Shell Type		Ha	rd				Fish Proces	ssing SOP	03/19/2003 1:00	OPM Appro	ved
Lobster Meat Con	nposite Sample ID	200	03006-009				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Tomalley	Composite Sample ID	200	03006-010				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#;	2003006-010C	Site:	AREA III				Matrix:	FBT	Collect Date:	10/25/2002	12:00 PM
Sample Field ID#:	NBH02-L-E-3C	Locator:	Station E Lone	Rock N	•		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Length		82.	.8	mm			Fish Proces	ssing SOP	03/19/2003 1:00	OPM Appro	ved
Abnormalities							Fish Proces	ssing SOP	03/19/2003 1:00	OPM Appro	ved
Shell rot, less	than 75% by weight o	f 010A									
Sex		Ma	ile	•			Fish Proces	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Claw Type		No	rmal				Fish Proce	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Shell Type		Ha	rd				Fish Proce	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Lobster Meat Con	nposite Sample ID	200	03006-009				Fish Proces	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Lobster Tomalley	Composite Sample ID	200	03006-010				Fish Proce	ssing SOP	03/19/2003 1:0	0 PM Appro	ved
Sample Lab ID#:	2003006-011	Site:	AREA II				Matrix:	FBT	Collect Date:	10/25/2002	12:00 PM
Sample Field ID#:	NBH02-L-A-2	Locator:	Station A SMA	ST Pier			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	sult	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>S1</u>	atus
Cadmium		0.0	32 M	mg/Kg wet	0.014	0.041	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Chromium		ND	)	mg/Kg wet	0.014	0.041	EPA 200.7		04/29/2003 10:	00 AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Sample Lab ID#: 2003006-011 Sample Field ID#: NBH02-L-A-2	Site: AREA II Locator: Station A S	MAST Pier			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/25/2002 12:00 PN Receive Date: 01/03/2003 9:55 AN
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
Copper	28	mg/Kg wet	0.014	0.041	EPA 200.7		04/29/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.14	0.41	EPA 200.7		04/29/2003 10:00 AM Approved
Surrogate		<u> </u>	Acceptan	ce Criteri	<u> </u>		
PCNB	84	% Recovery	60	- 140	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1242	ND	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	0.0039	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.015	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0012 M	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.0013 M	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0021 M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 18	ND	ug/g wet	0.0016	0.0048	Modified AC	DAC 983.21	03/31/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AC	OAC 983.21	03/31/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Collect Date: 10/25/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM  Analysis Date Status 03/31/2003 12:00 AM Approved
03/31/2003 12:00 AM Approved 03/31/2003 12:00 AM Approved
03/31/2003 12:00 AM Approved 03/31/2003 12:00 AM Approved
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03/31/2003 12:00 AM Approved
03/31/2003 12:00 AM Approved
00/01/2000 12:00 AM Apploved
03/31/2003 12:00 AM Approved
05/08/2003 1:00 PM Approved
03/19/2003 1:00 PM Approved
03/19/2003 1:00 PM Approved
Collect Date: 10/25/2002 12:00 PM
Receive Date: 01/03/2003 9:55 AM
Analysis Date Status
04/29/2003 10:00 AM Approved
04/08/2003 12:00 AM Approved
-

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

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J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

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R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:         2003006-012           Sample Field ID#:         NBH02-L-A-2	Site: AREA II Locator: Station A S	SMAST Pier			Matrix: Collector:	FBT Camisa, M	Collect Date:	10/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	St	atus
PCB A1232	ND	ug/g wet	0.19	0.57	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB A1242	ND	ug/g wet	0.19	0.57	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved .
PCB A1254	0.69	ug/g wet	0.13	0.39	Modified A	DAC 983.21	04/08/2003 12:00	AM Approv	/ed
PCB A1260	1.1	ug/g wet	0.22	0.66	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 105	0.33	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 114	0.041	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 118	2.0	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified At	DAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 126	0.018 J	ug/g wet	0.010	0.030	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
Compound quantitated from se	condary column. No MDL	generated from s	econdary c	olumn.					
PCB Toxic Congener BZ# 156	0.17	ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 157	0.065	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 167	0.13	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 170	0.12	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 180	0.27	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:00	AM Appro	ved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Congener BZ# 18	ND	ug/g wet	0.016	0.048	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Congener BZ# 28	0.24	ug/g wet	0.033	0.099	Modified A	OAC 983.21	04/08/2003 12:00	AM Appro	ved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified A	OAC 983.21	04/08/2003 12:00	AM Approv	ved
PCB Congener BZ# 52	0.059 M	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:00	AM Appro	ved
PCB Congener BZ# 66	0.45	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:00	AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

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J = Other QC criteria not met (see comments)

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N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

	•				ojoot oootani				
Sample Lab ID#: 2003006-012 Sample Field ID#: NBH02-L-A-2	Site: AREA II Locator: Station A SM	MAST Pier			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	St	atus
PCB Congener BZ# 101	0.25	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0		
PCB Congener BZ# 128	0.32	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 138	1.6	ug/g wet	0.017	0.051	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	ved
PCB Congener BZ# 153	2.2	ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 187	0.18	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 195	ND	ug/g wet	- 0.011	0.033	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 206	ND	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 209	ND	ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	ved
MDLs and RLs reflect 10 X dilution									
Lipid Concentration	18	%			Modified A	OAC 983.21	04/08/2003 12:0	00 AM Appro	ved
Solid Concentration	33	%			Modified A	OAC 950.46B	05/08/2003 1:00	PM Approv	ved
Species	Lobster Tomalley				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Weight	77	g wet			Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#: 2003006-012A	Site: AREA II				Matrix:	FBT	Collect Date:	10/25/2002	12:00 PM
Sample Field ID#: NBH02-L-A-2A	Locator: Station A SA	MAST Pier			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Length	84.8	mm			Fish Proces	ssing SOP	03/19/2003 1:0	PM Appro	ved
Abnormalities	None				Fish Proces	ssing SOP	03/19/2003 1:0	PM Appro	ved
Sex	Male				Fish Proces	ssing SOP	03/19/2003 1:0	PM Appro	ved
Claw Type	Normal				Fish Proces	ssing SOP	03/19/2003 1:0	PM Appro	ved
Shell Type	Hard				Fish Proces	ssing SOP	03/19/2003 1:0	PM Appro	ved
Lobster Meat Composite Sample ID	2003006-011				Fish Proces	ssing SOP	03/19/2003 1:0	PM Appro	ved
Lobster Tomalley Composite Sample ID	2003006-012				Fish Proces		03/19/2003 1:0	PM Appro	

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

- B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected
- N = GC/MS non-target tentatively identified compound (TIC) no standard available for quantitation
- R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Prepared For:

Contact:

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

. a.a.ye.e ..epot. ie. aeg... a

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

2003006

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Contact:						PIC	oject Coorain	ator: Faul Craile	у		
Sample Lab ID#: Sample Field ID#:	2003006-012B NBH02-L-A-2B	Site: Locator:	AREA II Station A SM	IAST Pier			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compou	<u>nd</u>	Re	esult	Units	MDL	RDL	Method		Analysis Date	Stat	us
Length		88	.9	mm			Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	1
Abnormalities		. No	one				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	t
Sex		Ma	ale				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	t
Claw Type		No	ormal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	d
Shell Type		Ha	ard				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	d
Lobster Meat Con	nposite Sample ID	20	03006-011				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	d
Lobster Tomalley	Composite Sample ID	20	03006-012				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	t
Sample Lab ID#:	2003006-012C	Site:	AREA II				Matrix:	FBT	Collect Date:	10/25/2002	12:00 PM
Sample Field ID#:	NBH02-L-A-2C	Locator:	Station A SM	AST Pier			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Stat	u <u>s</u>
Length		89	0.0	mm			Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	<del>j</del>
Abnormalities		No	one				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	1
Sex		M	ale				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	i t
Claw Type		No	ormal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	đ
Shell Type		Ha	ard				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	đ
Lobster Meat Con	nposite Sample ID	20	03006-011				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approve	đ
Lobster Tomaliey	Composite Sample ID	20	03006-012				Fish Proces	ssing SOP	03/19/2003 1:00	) PM Approve	t
Sample Lab ID#:	2003006-013	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#:	NBH02-L-B-2	Locator:	Station B Sc	onticut Neck			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Re	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	Stat	<u>us</u>
Cadmium		0.	022 M	mg/Kg wet	0.010	0.029	EPA 200.7		04/29/2003 10:0	00 AM Approve	d
Chromium		NI	ס	mg/Kg wet	0.010	0.029	EPA 200.7		04/29/2003 10:0	00 AM Approve	<del>j</del>
Copper		34	<b>!</b>	mg/Kg wet	0.010	0.029	EPA 200.7		04/29/2003 10:0	00 AM Approve	t

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-013 Site: AREA II Matrix: FBT Collect Date: 10/29/2002 12:00 PM Sample Field ID#: NBH02-L-B-2 Locator: Station B Sconticut Neck Collector: Camisa, M Receive Date: 01/03/2003 9:55 AM

all Table 1						11000110 24101 0 1100			
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	Analysis Date	Status		
Lead	ND	mg/Kg wet	0.097	0.29	EPA 200.7	04/29/2003 10:00 AM	Approved		
Surrogate			Acceptan	ce Criteria	<u>a</u>				
PCNB	81	% Recovery	y 60	- 140	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB A1242	0.050 M	ug/g wet	0.019	0.057	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 77	ND	ug/g wet	8000.0	0.0024	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 105	0.0043	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 118	0.011	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 156	0.0011 M	ug/g wet	0.0011	0.0033	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 180	0.0012 M	ug/g wet	0.0012	0.0036	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Congener BZ# 18	0.0022 M	ug/g wet	0.0016	0.0048	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Congener BZ# 28	0.0039 M	ug/g wet	0.0033	0.0099	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AOAC 983.21	04/01/2003 12:00 AM	Approved		

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RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

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LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

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• <b>,</b>	3006-013 102-L-B-2	Site: Locator	AREA II : Station B Sc	onticut Neck			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/29/2002 01/03/2003	
Analyte/Compound		<u>R</u>	esult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S</u> f	tatus
PCB Congener BZ# 52		N	D	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 66		0	.0045 M	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 10	1	N	D	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 128	В	0	.0017 M	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 13	В	0	.0066	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 15	3	0	.013	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 18	7	N	D	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 19	5	N	D	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 20	6	N	D	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 209	9	N	D	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
Lipid Concentration		0	.30	%			Modified AC	DAC 983.21	04/01/2003 12:0	00 AM Appro	ved
Solid Concentration		2	2	%			Modified AC	DAC 950.46B	05/08/2003 1:00	PM Appro	ved
Species		L	obster Meat				Fish Proces	ssing SOP	03/19/2003 1:00	) PM Appro	ved
Weight		5	16	g wet			Fish Proces	ssing SOP	03/19/2003 1:00		
Sample Lab ID#: 200	3006-014	Site:	AREA II	· · · · · · · · · · · · · · · · · · ·			Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#: NBI	102-L-B-2	Locator	: Station B Sc	onticut Neck	. *		Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound		R	<u>lesult</u>	<u>Units</u>	MDL.	RDL	Method		Analysis Date	<u>s</u>	tatus
Cadmium		5	.3	mg/Kg wet	0.026	0.078	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Chromium		N	ID	mg/Kg wet	0.026	0.078	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Copper		1	60	mg/Kg wet	0.026	0.078	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Lead		N	ID	mg/Kg wet	0.26	0.78	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Surrogate					Acceptan	ce Criteri	<u>a</u>			- <del></del>	
PCNB			79	% Recovery	y 60	- 140	Modified AC	DAC 983.21	04/08/2003 12:0	00 AM Appro	oved
PCB A1232		N	ID	ug/g wet	0.19	0.57	Modified AC	DAC 983.21	04/08/2003 12:0	00 AM Appro	ved
											•

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J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For: Contact: **BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-014 Sample Field ID#: NBH02-L-B-2	Site: AREA II Locator: Station B	Sconticut Neck			***************************************	BT Camisa, M	Collect Date: 10/29/2002 12:00 PN Receive Date: 01/03/2003 9:55 AN
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
PCB A1242	0.54 M	ug/g wet	0.19	0.57	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB A1254	0.58	ug/g wet	0.13	0.39	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB A1260	0.60 M	ug/g wet	0.22	0.66	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	- 0.010	0.030	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	0.20	ug/g wet	0.013	0.039	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.013	0.039	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.44	ug/g wet	0.012	0.036	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AOA	2 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.097	ug/g wet	0.011	0.033	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	0.034 M	ug/g wet	0.012	0.036	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	0.074	ug/g wet	0.012	0.036	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AQA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.074	ug/g wet	0.013	0.039	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.11	ug/g wet	0.012	0.036	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 18	0.031 M	ug/g wet	0.016	0.048	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 28	0.24	ug/g wet	0.033	0.099	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 52	0.033 M	ug/g wet	0.022	0.066	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 66	0.26	ug/g wet	0.022	0.066	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 101	0.079	ug/g wet	0.022	0.066	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved
PCB Congener BZ# 128	0.077	ug/g wet	0.012	0.036	Modified AOA	C 983.21	04/08/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

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B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

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LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

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LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Contact:

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

Prepared For: BWSC I

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

2003006

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

001114011							,				
Sample Lab ID#: Sample Field ID#:	2003006-014 NBH02-L-B-2	Site: Locator:	AREA II Station B Sco	onticut Neck			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/29/2002 01/03/2003	12:00 PN 9:55 AN
Analyte/Compou	<u>nd</u>	Res	<u>sult</u>	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
PCB Congener B2	Z# 138	0.7	D	ug/g wet	0.017	0.051	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	red
PCB Congener B2	Z# 153	0.6	5	ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Approv	red .
PCB Congener B2	Z# 187	0.13	2	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	red .
PCB Congener B2	Z# 195	ND		ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/08/2003 12:0	0 AM Approv	/ed
PCB Congener B2	Z# 206	ND		ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/08/2003 12:0	00 AM Approv	/ed
PCB Congener B2	Z# 209	ND		ug/g wet	0.014	0.042	Modified A	DAC 983.21	04/08/2003 12:0	00 AM Approv	/ed
MDLs and RLS	reflect 10X dilution.										
Lipid Concentration	n	16		%			Modified A	OAC 983.21	04/08/2003 12:0	0 AM Approv	/ed
Solid Concentration	on	30		%			Modified A	OAC 950.46B	05/08/2003 1:00	PM Approv	/ed
Species		Lob	ster Tomalley				Fish Proces	ssing SOP	03/19/2003 1:00	) PM Approv	/ed
Weight		82		g wet			Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ved
Sample Lab ID#:	2003006-014A	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#:	NBH02-L-B-2A	Locator:	Station B Sco	onticut Neck			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	<u>nd</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length		86.	3	mm			Fish Proces	ssing SOP	03/19/2003 1:00	) PM Approv	<b>red</b>
Abnormalities		She	ell rot				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ved .
Sex		Ma	le				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Claw Type		Nor	mal				Fish Proce	ssing SOP	03/19/2003 1:00	PM Approv	ved
Shell Type		Har	d				Fish Proces	ssing SOP	03/19/2003 1:0	PM Approv	ved .
Lobster Meat Con	nposite Sample ID	200	3006-013				Fish Proces	ssing SOP	03/19/2003 1:0	PM Approv	ved
Lobster Tomalley	Composite Sample ID	200	3006-014				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ved
Sample Lab ID#:	2003006-014B	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PN
Sample Field ID#:	NBH02-L-B-2B	Locator:	Station B Sco	onticut Neck			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN

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LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

#### Page 35 of 86

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

	2003006-014B NBH02-L-B-2B	Site: Locator:	AREA II Station B Se	conticut Neck			Matrix: Collector:	FBT Camisa, M	Collect Date:  Receive Date:	10/29/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compoun	ıd	Res	sult	Units	MDL	RDL	Method		Analyşis Date	St	atus
Length		87.		mm			Fish Proces	ssing SOP	03/19/2003 1:00	_	
Abnormalities		Noi	ne				Fish Proces	ssing SOP	03/19/2003 1:00		
Sex		Fer	nale				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Claw Type		Nor	mal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Shell Type		Har	rd				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Meat Comp	posite Sample ID	200	3006-013				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Tomaliey C	Composite Sample ID	200	3006-014				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#:	2003006-014C	Site:	AREA II		<u>-i</u>		Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#:	NBH02-L-B-2C	Locator:	Station B S	conticut Neck			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	ıd	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Length		86.	1	mm			Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Abnormalities		She	ell rot				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sex		Fer	nale				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Claw Type		No	rmal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Shell Type		Hai	rd				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Meat Comp	posite Sample ID	200	3006-013				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Tomalley C	Composite Sample ID	200	3006-014				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#:	2003006-015	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#:	NBH02-L-C-2	Locator:	Station C R	icketsons Pt			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	ı <u>d</u>	Res	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	Si	tatus
Cadmium		0.0	38	mg/Kg wet	0.011	0.034	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Chromium		ND		mg/Kg wet	0.011	0.034	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Copper		31		mg/Kg wet	0.011	0.034	EPA 200.7		04/29/2003 10:0	O AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-015 Sample Field ID#: NBH02-L-C-2	Site: AREA II Locator: Station C	Ricketsons Pt			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/29/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Lead	ND	mg/Kg wet	0.11	0.34	EPA 200.7		04/29/2003 10:00 AM Approved
Surrogate		<u> </u>	Acceptane	ce Criteri	<u>a</u>		
PCNB	84	% Recovery	60	- 140	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	OAC 983.21	04/01/2003 12:00 AM Approved
PCB A1242	0.062	ug/g wet	0.019	0.057	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB A1260	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.0073	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0011 M	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 18	0.0022 M	ug/g wet	0.0016	0.0048	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 28	ND	ug/g wet	0.0033	0.0099	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
<del>-</del>							• •

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

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MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

Prepared For: **BWSC DIV RESPONSE & REMEDIATION**  2003006

**Project Name:** 

New Bedford Harbor Fish

Contact:

**Project Coordinator: Paul Craffey** 

					,,		
Sample Lab ID#: 2003006-015 Sample Field ID#: NBH02-L-C-2	Site: AREA II Locator: Station C Ric	cketsons Pt			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/29/2002 12:00 P Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
PCB Congener BZ# 52	ND	ug/g wet	0.0022	0.0066	Modified A	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 66	0.0036 M	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0021 M	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 138	0.0074	ug/g wet	0.0017	0.0051	Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 153	0.013	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 187	ND	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
Lipid Concentration	0.21	%			Modified A	OAC 983.21	04/01/2003 12:00 AM Approved
Solid Concentration	23	%			Modified A	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	Lobster Meat				Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Weight	557	g wet			Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Sample Lab ID#: 2003006-016	Site: AREA II				Matrix:	FBT	Collect Date: 10/29/2002 12:00 P
Sample Field ID#: NBH02-L-C-2	Locator: Station C Ric	cketsons Pt			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 A
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	5.1	mg/Kg wet	0.031	0.094	EPA 200.7		04/29/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.031	0.094	EPA 200.7		04/29/2003 10:00 AM Approved
Copper	340	mg/Kg wet	0.031	0.094	EPA 200.7		04/29/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.31	0.94	EPA 200.7		04/29/2003 10:00 AM Approved
Surrogate			Acceptan	ce Criteri	a		
PCNB	81	% Recover	y 60	- 140	Modified A	OAC 983.21	04/09/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified A	OAC 983.21	04/09/2003 12:00 AM Approved

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LRB = Laboratory Reagent Blank

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LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-016 Sample Field ID#: NBH02-L-C-2	Site: AREA II Locator: Station C	Ricketsons Pt			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/29/2002 Receive Date: 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method	<u></u>	Analysis Date St	atus
PCB A1242	ND	ug/g wet	0.19	0.57	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	/ed
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AC	OAC 983.21	04/09/2003 12:00 AM Approv	<b>v</b> ed
PCB A1254	0.82	ug/g wet	0.13	0.39	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approx	ved
PCB A1260	1.1	ug/g wet	0.22	0.66	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0080	0.024	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 105	0.40	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 114	0.033 M	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 118	1.9	ug/g wet	0.012	0.036	Modified AC	OAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approx	ved
PCB Toxic Congener BZ# 156	0.16	ug/g wet	0.011	0.033	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 157	0.067	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 167	0.12	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 170	0.12	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 180	0.27	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 18	ND	ug/g wet	0.016	0.048	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 28	0.18	ug/g wet	0.033	0.099	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 52	ND	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 66	0.43	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 101	0.15	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved
PCB Congener BZ# 128	0.29	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 39 of 86

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

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Sample Lab ID#: 2003006-016 Sample Field ID#: NBH02-L-C-2	Site: Locator:	AREA II Station C Rick	retsons Pt			Matrix: Collector:	FBT Camisa, M	Collect Date:	10/29/2002	12:00 PM 9:55 AM
Analyte/Compound		sult	Units	MDL	RDL	Method		Analysis Date		atus
PCB Congener BZ# 138	1.4		ug/g wet	0.017	0.051		OAC 983.21	04/09/2003 12:		
PCB Congener BZ# 153	2.2		ug/g wet	0.017	0.042		OAC 983.21	04/09/2003 12:	• • •	
PCB Congener BZ# 187	0.1		ug/g wet	0.022	0.066		OAC 983.21	04/09/2003 12:	• • •	
PCB Congener BZ# 195	NE		ug/g wet	0.011	0.033		OAC 983,21	04/09/2003 12:		
PCB Congener BZ# 206	NE		ug/g wet	0.012	0.036		OAC 983.21	04/09/2003 12:	• •	
PCB Congener BZ# 209	NC		ug/g wet	0.014	0.042		OAC 983.21	04/09/2003 12:		
MDLs and RLs reflect 10X dilution	–	,	ug/g wet	0.014	0.042	Wiodilica 7	OAO 300.21	04/05/2008 12.	o Airi Appio	<b>,</b>
Lipid Concentration	25		%			Modified A	OAC 983.21	04/09/2003 12:	00 AM Appro	ved
Solid Concentration	38		%			-	OAC 950,46B	05/08/2003 1:0	• • •	
Species		bster Tomalley	,,			Fish Proce		03/19/2003 1:0		
Weight	80	•	g wet			Fish Proce	•	03/19/2003 1:0		
Sample Lab ID#: 2003006-016A	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PN
Sample Field ID#: NBH02-L-C-2A	Locator:	Station C Rick	cetsons Pt			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound	Re	sult	<u>Units</u>	MDL	RDL.	Method		Analysis Date	<u>S1</u>	atus
Length	97	.1	mm			Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Abnormalities	No	ne				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Sex	Ma	ile				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Claw Type	No	rmal				Fish Proce	ssing SOP	03/19/2003 1:0	PM Appro	ved
Shell Type	Ha	rd				Fish Proce	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Lobster Meat Composite Sample ID	20	03006-015				Fish Proce	ssing SOP	03/19/2003 1:0	0 PM Appro	ved
Lobster Tomalley Composite Sample	ID 20	03006-016				Fish Proce	ssing SOP	03/19/2003 1:0	OPM Appro	ved
Sample Lab ID#: 2003006-016B	Site:	AREA II			:	Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#: NBH02-L-C-2B	Locator:	Station C Rick	ketsons Pt			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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H = USEPA holding time exceeded

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LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

2003006

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Comact.						FIG	ojeci Gooraiii	ator. I aui Cianey	(		
	2003006-016B NBH02-L-C-2B	Site: Locator:	AREA II Station C Rick	ketsons Pt		, , ,	Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/29/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	1	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		82.	9	mm			Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Abnormalities		No	ne				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Sex		Fer	male				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Claw Type		No	mal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ved .
Shell Type		Ha	rd ,				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ved
Lobster Meat Comp	osite Sample ID	200	3006-015				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Lobster Tomalley Co	omposite Sample ID	200	3006-016				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Sample Lab ID#: 2	2003006-016C	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#:	NBH02-L-C-2C	Locator:	Station C Ric	ketsons Pt			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	1	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
Length		80.	6	mm			Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Abnormalities		No	ne				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Sex		Ma	le				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	/ed
Claw Type		No	rmal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Shell Type		Ha	rd				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Meat Comp	osite Sample ID	200	03006-015				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Lobster Tomalley C	omposite Sample ID	200	03006-016				Fish Proces	ssing SOP	03/19/2003 1:00	PM Appro	ved
Sample Lab ID#:	2003006-017	Site:	AREA II			······································	Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#:	NBH02-L-D-2	Locator:	Station D E F	ort Rodman			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	1	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>S1</u>	atus
Cadmium		0.0	19 M	mg/Kg wet	0.012	0.035	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Chromium		ND	1	mg/Kg wet	0.012	0.035	EPA 200.7		04/29/2003 10:0	00 AM Appro	ved
Copper		25		mg/Kg wet	0.012	0.035	EPA 200.7		04/29/2003 10:0	O AM Approx	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-017 Sample Field ID#: NBH02-L-D-2	Site: AREA II Locator: Station D E	Fort Rodman		Matrix: FBT Collector: Camisa, M	Collect Date: 10/29/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL RDL	Method	Analysis Date Status
Lead	ND	mg/Kg wet	0.12 0.35	EPA 200.7	04/29/2003 10:00 AM Approved
<u>Surrogate</u>		•	Acceptance Crit	<del></del>	
PCNB	86	% Recovery		Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019 0.057		04/01/2003 12:00 AM Approved
PCB A1242	0.14	ug/g wet	0.019 0.057	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038 0.11	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013 0.039	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB A1260	0.023 M	ug/g wet	0.022 0.066	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008 0.002	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	0.013	ug/g wet	0.0013 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.053	ug/g wet	0.0012 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0046	ug/g wet	0.0011 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	0.0015 M	ug/g wet	0.0012 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	0.0029 M	ug/g wet	0.0012 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006 0.00	8 Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.0034 M	ug/g wet	0.0013 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0047	ug/g wet	0.0012 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 18	0.0041 M	ug/g wet	0.0016 0.004	Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 28	0.013	ug/g wet	0.0033 0.009	9 Modified AOAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010 0.003	Modified AOAC 983.21	04/01/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Sample Lab ID#: 2003006-017 Sample Field ID#: NBH02-L-D-2	Site: AREA II Locator: Station D E Fo	ort Rodman			Matrix: Collector:	FBT Camisa, M	Collect Date: 10/29/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method	~	Analysis Date Status
PCB Congener BZ# 52	0.0046 M	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 66	0.019	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 101	ND	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 128	0.0074	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 138	0.035	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 153	0.051	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 187	0.0048 M	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
Lipid Concentration	0.23	%			Modified AC	DAC 983.21	04/01/2003 12:00 AM Approved
Solid Concentration	20	%			Modified AC	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	Lobster Meat				Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Weight	427	g wet			Fish Proces	ssing SOP	03/19/2003 1:00 PM Approved
Sample Lab ID#: 2003006-018	Site: AREA II		· · · · · · · · · · · · · · · · · · ·		Matrix:	FBT	Collect Date: 10/29/2002 12:00 PM
Sample Field ID#: NBH02-L-D-2	Locator: Station D E Fo	ort Rodman			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	4.1	mg/Kg wet	0.034	0.10	EPA 200.7		04/29/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.034	0.10	EPA 200.7		04/29/2003 10:00 AM Approved
Copper	510	mg/Kg wet	0.034	0.10	EPA 200.7		04/29/2003 10:00 AM Approved
Lead	ND	mg/Kg wet	0.34	1.0	EPA 200.7		04/29/2003 10:00 AM Approved
Surrogate			Acceptan	ce Criteri	<u>a</u>		
PCNB	82	% Recover	y 60	- 140	Modified AC	DAC 983.21	04/09/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified AC	OAC 983.21	04/09/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-018 Sample Field ID#: NBH02-L-D-2	Site: AREA II Locator: Station D	E Fort Rodman			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/29/2002	12:00 PM 9:55 AM
Sample Field ID#: NBHUZ-L-D-2	Locator: Station D	E FOR ROOMAII			Conector:	Camisa, W	Receive Date:		9.55 AIV
Analyte/Compound	Result	<u>Units</u>	MDL.	<u>RDL</u>	<u>Method</u>		<b>Analysis Date</b>	<u>St</u>	atus
PCB A1242	1.1	ug/g wet	0.19	0.57	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified AC	DAC 983.21	04/09/2003 12:00	AM Approv	/ed
PCB A1254	2.0	ug/g wet	0.13	0.39	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB A1260	1.9	ug/g wet	0.22	0.66	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 77	0.12 J	ug/g wet	0.0080	0.024	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
Compound quantitated from se	condary column. No MDL	generated from se	econdary co	olumn.					
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 105	0.58	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 114	0.073	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 118	3.1	ug/g wet	0.012	0.036	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	veđ
PCB Toxic Congener BZ# 126	0.035 J	ug/g wet	0.010	0.030	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
Compound quantitated from se-	condary column. No MDL	generated from s	econdary c	olumn.					
PCB Toxic Congener BZ# 156	0.28	ug/g wet	0.011	0.033	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 157	0.10	ug/g wet	0.012	0.036	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Toxic Congener BZ# 167	0.20	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:0	O AM Approv	ved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified AC	DAC 983.21	04/09/2003 12:0	AM Approv	ved
PCB Toxic Congener BZ# 170	0.27	ug/g wet	0.013	0.039	Modified AC	OAC 983.21	04/09/2003 12:0	AM Approv	ved
PCB Toxic Congener BZ# 180	0.49	ug/g wet	0.012	0.036	Modified AC	OAC 983.21	04/09/2003 12:0	O AM Approv	ved
PCB Toxic Congener BZ# 189	0.018 M	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:0	O AM Approv	ved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AC	OAC 983.21	04/09/2003 12:0	AM Approv	ved
PCB Congener BZ# 18	0.058	ug/g wet	0.016	0.048	Modified AC	DAC 983.21	04/09/2003 12:0	AM Approv	ved
PCB Congener BZ# 28	0.65	ug/g wet	0.033	0.099	Modified AC	DAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Congener BZ# 44	ND	ug/g wet	0.010	0.030	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Congener BZ# 52	0.24	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/09/2003 12:00	AM Approv	ved
PCB Congener BZ# 66	0.72	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/09/2003 12:0	AM Approv	veđ

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded
J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

## MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

**DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** 

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator:** Paul Craffey

Sample Lab ID#: 2003006-018 Sample Field ID#: NBH02-L-D-2	Site: Locator:	AREA II Station D E F	ort Rodman			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	10/29/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Res	sult	Units	MDL	RDL	Method		Analysis Date	Si	atus
PCB Congener BZ# 101	0.3		ug/g wet	0.022	0.066		OAC 983.21	04/09/2003 12:0		
PCB Congener BZ# 128	0.53		ug/g wet	0.012	0.036	Modified AOAC 983.21		04/09/2003 12:00 AM Approved		
PCB Congener BZ# 138	2.3		ug/g wet	0.017	0.051	Modified AOAC 983.21		04/09/2003 12:00 AM Approved		ved
PCB Congener BZ# 153	3.3		ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 187	0.37		ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/09/2003 12:	00 AM Appro	ved
PCB Congener BZ# 195	0.016 M		ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 206	ND		ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/09/2003 12:	00 AM Appro	ved
PCB Congener BZ# 209	ND		ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/09/2003 12:0	00 AM Appro	ved
MDLs and RLS reflect 10X dilution.										
Lipid Concentration	15		%			Modified A	DAC 983.21	04/09/2003 12:	00 AM Appro	ved
Solid Concentration	25		%			Modified AOAC 950.46B		05/08/2003 1:00 PM Approved		
Species	Lobster Tomalley					Fish Processing SOP		03/19/2003 1:00 PM Approved		
Weight	60		g wet			Fish Processing SOP		03/19/2003 1:00 PM Approved		
Sample Lab ID#: 2003006-018A	Site:	AREA II				Matrix:	FBT	Collect Date:	10/29/2002	12:00 PM
Sample Field ID#: NBH02-L-D-2A	Locator:	Station D E F	Fort Rodman			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Re	sult	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>s</u>	tatus
Length	85.9		mm			Fish Processing SOP		03/19/2003 1:0	00 PM Approved	
Abnormalities						Fish Processing SOP		03/19/2003 1:00 PM Approved		
Shell rot on body and claw										
Sex	Male					Fish Processing SOP		03/19/2003 1:0	1:00 PM Approved	
Claw Type	Normal					Fish Processing SOP		03/19/2003 1:0	19/2003 1:00 PM Approved	
Shell Type	Hard					Fish Processing SOP		03/19/2003 1:0	03 1:00 PM Approved	
Lobster Meat Composite Sample ID	2003006-017					Fish Processing SOP		03/19/2003 1:0	1:00 PM Approved	
Lobster Tomalley Composite Sample ID	200	03006-018				Fish Proce	ssing SOP	03/19/2003 1:0	0 PM Appro	vod

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

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LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 45 of 86

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

**Contact:** 

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

							<u>-</u>				
Sample Lab ID#:	2003006-018B	Site:	AREA II				Matrix:	FBT	Collect Date:	10/31/2002	12:00 PM
Sample Field ID#:	NBH02-L-D-2B	Locato	r: Station D E Fort	Rodman			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	<u>d</u>		Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	<u>itus</u>
Length			84.5	mm			Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Abnormalities			Shell rot				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Sex			Male				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Claw Type			Normal				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Shell Type			Hard				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Lobster Meat Comp	osite Sample ID		2003006-017				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Lobster Tomalley C	omposite Sample ID		2003006-018				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Sample Lab ID#:	2003006-018C	Site:	AREA II				Matrix:	FBT	Collect Date:	10/31/2002	12:00 PM
Sample Field ID#:	NBH02-L-D-2C	Locato	or: Station D E Fort	Rodman			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	<u>d</u>		Result	<u>Units</u>	MDL	RDL.	Method		Analysis Date	Sta	itus
Length			82.5	mm			Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Abnormalities			None				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Sex			Male				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Claw Type			Normal				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Shell Type			Hard				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	eď
Lobster Meat Comp	osite Sample ID		2003006-017				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Lobster Tomalley C	composite Sample ID		2003006-018				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Sample Lab ID#:	2003006-019	Site:	AREA II				Matrix:	FBT	Collect Date:	11/14/2002	12:00 PM
Sample Field ID#:	NBH02-L-E-2	Locate	or: Station E Fort P	hoenix			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compoun	₫		Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	ntus
Cadmium			0.024 M	mg/Kg wet	0.011	0.033	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed
Chromium			ND	mg/Kg wet	0.011	0.033	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed
			24	mg/Kg wet	0.011	0.033	EPA 200.7		04/29/2003 10:0		

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-019 Sample Field ID#: NBH02-L-E-2	Site: AREA II Locator: Station E F	ort Phoenix			Matrix: Collector:	FBT Camisa, M	Collect Date: 11/14/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Lead	ND	mg/Kg wet	0.11	0.33	EPA 200.7		04/29/2003 10:00 AM Approved
Surrogate		E	cceptan	ce Criteri	<u>a</u>		
PCNB	92	% Recovery	60	- 140	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB A1232	ND	ug/g wet	0.019	0.057	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB A1242	0.061	ug/g wet	0.019	0.057	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB A1248	ND	ug/g wet	0.038	0.11	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB A1254	ND	ug/g wet	0.013	0.039	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB A1260	0.022 M	ug/g wet	0.022	0.066	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.0008	0.0024	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.0010	0.0030	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 105	0.013	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 118	0.056	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 156	0.0040	ug/g wet	0.0011	0.0033	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 157	0.0013 M	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 167	0.0029 M	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 170	0.0026 M	ug/g wet	0.0013	0.0039	Modified AC	OAC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 180	0.0044	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 8	ND	ug/g wet	0.0010	0.0030	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 18	0.0042 M	ug/g wet	0.0016	0.0048	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 28	0.017	ug/g wet	0.0033	0.0099	Modified AC	AC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 44	ND	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	04/03/2003 12:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-019	Site: AREA II				Matrix:	FBT		11/14/2002	12:00 PM
Sample Field ID#: NBH02-L-E-2	Locator: Station E Fo	ort Phoenix			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Sta	itus
PCB Congener BZ# 52	0.0042 M	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 66	0.021	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 101	0.0053 M	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	eđ
PCB Congener BZ# 128	0.0056	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 138	0.027	ug/g wet	0.0017	0.0051	Modified A	OAC 983.21	04/03/2003 12:00	AM Approv	ed
PCB Congener BZ# 153	0.045	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 187	0.0048 M	ug/g wet	0.0022	0.0066	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 195	ND	ug/g wet	0.0011	0.0033	Modified A	DAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 206	ND	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified A	OAC 983.21	04/03/2003 12:0	O AM Approv	ed
Lipid Concentration	0.33	%			Modified A	OAC 983.21	04/03/2003 12:0	AM Approv	ed
Solid Concentration	18	%			Modified A	OAC 950.46B	05/08/2003 1:00	PM Approv	eđ
Species	Lobster Meat				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ed
Weight	343	g wet			Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	ed
Sample Lab ID#: 2003006-020	Site: AREA II				Matrix:	FBT	Collect Date:	11/14/2002	12:00 PM
Sample Field ID#: NBH02-L-E-2	Locator: Station E Fo	ort Phoenix			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	<u>itus</u>
Cadmium	1.6	mg/Kg wet	0.027	0.080	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed
Chromium	ND	mg/Kg wet	0.027	0.080	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed
Copper	230	mg/Kg wet	0.027	0.080	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed
Lead	ND	mg/Kg wet	0.27	0.80	EPA 200.7		04/29/2003 10:0	0 AM Approv	ed
Surrogate			Acceptan	ce Criteri	<u>a</u>				
PCNB	88	% Recovery	y 60	- 140	Modified A	OAC 983.21	04/09/2003 12:0	0 AM Appro	ved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified A	OAC 983.21	04/09/2003 12:0	O AM Approv	ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

	03006-020	Site:	AREA II				Matrix:	FBT	Collect Date:	11/14/2002	12:00 PM
Sample Field ID#: NE	3H02-L-E-2	Locator:	Station E F	ort Phoenix			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AN
Analyte/Compound		Res	ult	Units	MDL	RDL	Method		Analysis Date	S	tatus
PCB A1242		1.7		ug/g wet	0.19	0.57	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB A1248		ND		ug/g wet	0.38	1.1	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB A1254		4.9		ug/g wet	0.13	0.39	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB A1260		1.6		ug/g wet	0.22	0.66	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 77	0.19	J	ug/g wet	0.0080	0.024	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
Compound quanti	tated from sec	ondary column	n. No MDL g	enerated from s	econdary o	olumn.					
PCB Toxic Congener	BZ# 81	ND		ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	B <b>Z</b> # 105	0.51		ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 114	0.08	30	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 118	3.2		ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 123	ND		ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 126	0.03	34 J	ug/g wet	0.010	0.030	Modified AC	OAC 983.21	04/09/2003 12:0	00 AM Appro	ved
Compound quanti	tated from sec	ondary columr	ı. No MDL ç	enerated from s	econdary o	olumn.					
PCB Toxic Congener	BZ# 156	0.25	5	ug/g wet	0.011	0.033	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 157	0.07	<b>'</b> 5	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 167	0.20	)	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 169	ND		ug/g wet	0.0060	0.018	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 170	0.19	)	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 180	0.35	5	ug/g wet	0.012	0.036	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Toxic Congener	BZ# 189	0.01	14 M	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 8		0.02	28 M	ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 1	8	0.10	)	ug/g wet	0.016	0.048	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 2	8	0.86	6	ug/g wet	0.033	0.099	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 4	4	0.03	38	ug/g wet	0.010	0.030	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 5	2	0.28	3	ug/g wet	0.022	0.066	Modified AC	DAC 983.21	04/09/2003 12:0	00 AM Appro	ved
PCB Congener BZ# 6	6	1.0		ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/09/2003 12:0	O AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

#### Page 49 of 86

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

**Contact:** 

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-020 Sample Field ID#: NBH02-L-E-2	Site: AREA II Locator: Station E Fo	rt Phoenix			Matrix: Collector:	FBT Camisa, M	Collect Date: 11/14/200 Receive Date: 01/03/200	
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	Status
PCB Congener BZ# 101	0.44	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 128	0.36	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 138	2.0	ug/g wet	0.017	0.051	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 153	3.1	ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 187	0.38	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 195	0.016 M	ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 206	ND	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
PCB Congener BZ# 209	ND	ug/g wet	0.014	0.042	Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
MDLs and RLs reflect 10X dilution.								•
Lipid Concentration	12	%			Modified A	OAC 983.21	04/09/2003 12:00 AM App	roved
Solid Concentration	26	%			Modified A	OAC 950.46B	05/08/2003 1:00 PM App	roved
Species	Lobster Tomalley				Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Weight	51	g wet			Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Sample Lab ID#: 2003006-020A	Site: AREA II		<u>-,</u>		Matrix:	FBT	Collect Date: 11/14/200	
Sample Field ID#: NBH02-L-E-2A	Locator: Station E Fo	rt Phoenix			Collector:	Camisa, M	Receive Date: 01/03/200	3 9:55 AM
Analyte/Compound	<u>Result</u>	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>Status</u>
Length	82.5	mm			Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Abnormalities					Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Minor shell rot on cephalon								
Sex	Male				Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Claw Type	Normal				Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Shell Type	Hard				Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Lobster Meat Composite Sample ID	2003006-019				Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved
Lobster Tomalley Composite Sample ID	2003006-020				Fish Proce	ssing SOP	03/19/2003 1:00 PM App	roved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:         2003006-020B           Sample Field ID#:         NBH02-L-E-2B	Site: AREA II Locator: Station E For	rt Phoenix			Matrix: Collector:	FBT Camisa, M		11/14/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	atus
Length	76.6	mm			Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Abnormalities	None				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red
Sex	Male				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red
Claw Type	Normal				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Shell Type	Hard				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red
Lobster Meat Composite Sample ID	2003006-019				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red
Lobster Tomalley Composite Sample ID	2003006-020				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red
Sample Lab ID#: 2003006-020C	Site: AREA II			**	Matrix:	FBT	Collect Date:	11/20/2002	12:00 PM
Sample Field ID#: NBH02-L-E-2C	Locator: Station E For	t Phoenix			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>St</u>	atus
Length	75.1	mm			Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red
Abnormalities	None				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	ed
Sex	Male				Fish Proces	sing SOP	03/19/2003 1:00	PM Approv	red .
Claw Type	Normal				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red
Shell Type	Hard				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red .
Lobster Meat Composite Sample ID	2003006-019				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red .
Lobster Tomalley Composite Sample ID	2003006-020				Fish Proces	ssing SOP	03/19/2003 1:00	PM Approv	red .
Sample Lab ID#: 2003006-021	Site: AREA I				Matrix:	FBT	Collect Date:	11/08/2002	12:00 PM
Sample Field ID#: NBH02-FF-A-1	Locator: Station A W-	Barrier Open			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	<u>Method</u>		Analysis Date	<u>St</u>	atus
Cadmium	ND	mg/Kg wet	0.010	0.029	EPA 200.7		04/29/2003 10:00	AM Approv	red .
Chromium	0.068	mg/Kg wet	0.010	0.029	EPA 200.7		04/29/2003 10:00	AM Approv	⁄ed
Copper	3.1	mg/Kg wet	0.010	0.029	EPA 200.7		04/29/2003 10:00	AM Approv	red .

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 51 of 86

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Total Family Residence	2003006-021 NBH02-FF-A-1	Site: Locator:	AREA I Station A W	-Barrier Open			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	11/08/200	
Analyte/Compoun		Res		Units	MDL	RDL	Method		Analysis Date		Status
Weight	-	282	_	g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Apr	proved
Length		29		cm			Fish Proces	-	03/18/2003 1:00	٠.	proved
Abnormalities		Nor	ne				Fish Proces	ssing SOP	03/18/2003 1:00	PM App	proved
Sex		Fen	nale				Fish Proces	ssing SOP	03/18/2003 1:00	PM App	proved
Lead		ND		mg/Kg wet	0.096	0.29	EPA 200.7	_	04/29/2003 10:0	0 AM Ap	proved
Surroga	te				Acceptan	ce Criteria	 a		**************************************	<del></del>	
PCNB		:	88	% Recovery		- 140	Modified A0	DAC 983.21	04/03/2003 12:0	OAM Ap	proved
PCB A1232		ND		ug/g wet	0.019	0.057	Modified AC	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB A1242		0.08	38	ug/g wet	0.019	0.057	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB A1248		ND		ug/g wet	0.038	0.11	Modified AC	DAC 983.21	04/03/2003 12:0	0 AM App	proved
PCB A1254		0.44	<b>!</b>	ug/g wet	0.013	0.039	Modified AC	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB A1260		0.03	34 M	ug/g wet	0.022	0.066	Modified A	DAC 983.21	04/03/2003 12:0	0 AM App	proved
PCB Toxic Congen	er BZ# 77	0.00	)22 J	ug/g wet	0.0008	0.0024	Modified A0	DAC 983.21	04/03/2003 12:0	0 AM App	proved
Compound qua	ntitated from seco	ondary columi	n. No MDL go	enerated ffrom se	condary o	column.					
PCB Toxic Congen	er BZ# 81	ND		ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 105	0.01	13	ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 114	ND		ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 118	0.07	70	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 123	ND		ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 126	ND		ug/g wet	0.0010	0.0030	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 156	0.00	)55	ug/g wet	0.0011	0.0033	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 157	0.00	014 M	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 167	0.00	035 M	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 169	ND		ug/g wet	0.0006	0.0018	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved
PCB Toxic Congen	er BZ# 170	0.00	)44	ug/g wet	0.0013	0.0039	Modified A	DAC 983.21	04/03/2003 12:0	0 AM App	proved
PCB Toxic Congen		0.00	)77	ug/g wet	0.0012	0.0036	Modified A	DAC 983.21	04/03/2003 12:0	0 AM Ap	proved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey Contact:

Sample Lab ID#: Sample Field ID#:	2003006-021 NBH02-FF-A-1	Site: Locator:	AREA I Station A W-I	Barrier Open			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	11/08/2002	12:00 PM 9:55 AM
Analyte/Compou		Res		Units	MDL	RDL	Method		Analysis Date		atus
PCB Toxic Conge	<del></del>	ND		ug/g wet	0.0013		Modified AC	DAC 983.21	04/03/2003 12:0	_	
PCB Congener B	Z# 8	0.00	014 M	ug/g wet	0.0010	0.0030	Modified AC	DAC 983.21	04/03/2003 12:0	00 AM Approv	ved
PCB Congener Ba	Z# 18	0.00	061	ug/g wet	0.0016	0.0048	Modified AC	DAC 983.21	04/03/2003 12:0	00 AM Approv	ved
PCB Congener Ba		0.03	34	ug/g wet	0.0033	0.0099	Modified AC	DAC 983.21	04/03/2003 12:0		
PCB Congener B		0.00	015 M	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	04/03/2003 12:	00 AM Approv	ved
PCB Congener Ba		0.0	15	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/03/2003 12:	00 AM Appro	ved
PCB Congener B	Z# 66	0.03	34	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/03/2003 12:	00 AM Appro	ved
PCB Congener B	Z# 101	0.0	18	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/03/2003 12:0	00 AM Approv	ved
PCB Congener Ba		0.0	092	ug/g wet	0.0012	0.0036	Modified AC	DAC 983.21	04/03/2003 12:0	00 AM Approv	ved
PCB Congener Ba	Z# 138	0.09	52	ug/g wet	0.0017	0.0051	Modified AC	DAC 983.21	04/03/2003 12:	00 AM Approv	ved
PCB Congener B	Z# 153	0.0	75	ug/g wet	0.0014	0.0042	Modified AC	OAC 983.21	04/03/2003 12:	00 AM Approv	ved
PCB Congener B	Z# 187	0.00	045 M	ug/g wet	0.0022	0.0066	Modified AC	DAC 983.21	04/03/2003 12:	00 AM Approv	ved
PCB Congener B	Z# 195	ND		ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	04/03/2003 12:	00 AM Approv	ved
PCB Congener B	Z# 206	ND		ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	04/03/2003 12:	OO AM Approv	ved
PCB Congener B		ND		ug/g wet	0.0014	0.0042	Modified AC	OAC 983.21	04/03/2003 12:	00 AM Appro	ved
Lipid Concentration		0.14	4	%			Modified AC	OAC 983.21	04/03/2003 12:	00 AM Appro	ved
Solid Concentration	on	21		%			Modified AC	DAC 950.46B	05/08/2003 1:0		
Species		Wir	nter Flounder				Fish Proces	ssing SOP		Appro	ved
Sample Lab ID#:	2003006-022	Site:	AREA I				Matrix:	FBT	Collect Date:	11/25/2002	12:00 PM
Sample Field ID#:	NBH02-FF-B-1	Locator:	Station B 195	5 Overpass			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compou	ınd	Res	<u>sult</u>	Units	MDL	RDL	Method	, , , , , , , , , , , , , , , , , , , ,	Analysis Date	St	atus
Cadmium		ND		mg/Kg wet	0.011	0.034	EPA 200.7		04/29/2003 10:	00 AM Appro	ved
Chromium		0.0	80	mg/Kg wet	0.011	0.034	EPA 200.7		04/29/2003 10:	00 AM Appro	ved
Copper		1.6		mg/Kg wet	0.011	0.034	EPA 200.7		04/29/2003 10:	00 AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-022 Sample Field ID#: NBH02-FF-B-1	Site: AREA I Locator: Station B 19	5 Overpass			Matrix: Collector:	FBT Camisa. M		11/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method	outriou, in	Analysis Date	Stat	
Weight	<u>resuit</u> 213	g wet	MIDL	NUL	Fish Proces	seina SOD	03/18/2003 1:00 l		
Length	27	cm			Fish Proces	•	03/18/2003 1:00	• •	
Abnormalities	None	GII			Fish Proces	•	03/18/2003 1:00 1		
Sex	Female				Fish Proces	•	03/18/2003 1:00		
Lead	ND .	mg/Kg wet	0.11	0.34	EPA 200.7	=	04/29/2003 10:00		
<del></del>	ND			ce Criteri			04/29/2003 10.00	Will Wholoke	<del></del>
Surrogate PCNB	84	% Recovery		- 140		DAC 983.21	04/03/2003 12:00	AM Approx	ad
PCB A1232	ND		0.019	0.057		DAC 983.21	04/03/2003 12:00		
PCB A1242	0.80	ug/g wet	0.019	0.057		DAC 983.21 DAC 983.21	04/03/2003 12:00	• •	
PCB A1248	ND	ug/g wet	0.019	0.037		DAC 983.21 DAC 983.21	04/03/2003 12:00	• • •	
PCB A1254	1.9	ug/g wet	0.038	0.11		DAC 983.21 DAC 983.21		• • •	
		ug/g wet	0.013				04/03/2003 12:00	• • •	•
PCB A1260	0.14	ug/g wet		0.066		DAC 983.21	04/03/2003 12:00		
PCB Toxic Congener BZ# 77	0.0086 J	ug/g wet	0.0008	0.0024	модіпед А	OAC 983.21	04/03/2003 12:00	AM Approve	a
Compound quantitated from sec	-				94-416-4 8 <i>/</i>	0.4.0.000.04	04/02/0002 42:00		
PCB Toxic Congener BZ# 81	ND	ug/g wet		0.0030		OAC 983.21	04/03/2003 12:00	• •	
PCB Toxic Congener BZ# 105	0.030	ug/g wet		0.0039		OAC 983.21	04/03/2003 12:00	• •	
PCB Toxic Congener BZ# 114	0.0047	ug/g wet		0.0039		OAC 983.21	04/03/2003 12:00		
PCB Toxic Congener BZ# 118	0.16	ug/g wet		0.0036		OAC 983.21	04/03/2003 12:00		
PCB Toxic Congener BZ# 123	ND	ug/g wet		0.0039		OAC 983.21	04/03/2003 12:00	• •	
PCB Toxic Congener BZ# 126	ND	ug/g wet		0.0030		OAC 983.21	04/03/2003 12:00	• •	
PCB Toxic Congener BZ# 156	0.012	ug/g wet	0.0011			OAC 983.21	04/03/2003 12:00	AM Approve	ed
PCB Toxic Congener BZ# 157	0.0029 M	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	04/03/2003 12:00	AM Approve	:d
PCB Toxic Congener BZ# 167	0.0090	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	04/03/2003 12:00	AM Approve	d
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0006	0.0018	Modified A	OAC 983.21	04/03/2003 12:00	AM Approve	d
PCB Toxic Congener BZ# 170	0.010	ug/g wet	0.0013	0.0039	Modified A	OAC 983.21	04/03/2003 12:00	AM Approve	d
PCB Toxic Congener BZ# 180	0.020	ug/g wet	0.0012	0.0036	Modified A	OAC 983.21	04/03/2003 12:00	AM Approve	ed

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 54 of 86

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-022 Sample Field ID#: NBH02-FF-B-1	Site: AREA I Locator: Station I	3 195 Overpass			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	11/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.0013	0.0039	Modified AC	AC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 8	0.019	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 18	0.049	ug/g wet	0.0016	0.0048	Modified AC	AC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 28	0.28	ug/g wet	0.0033	0.0099	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 44	0.035	ug/g wet	0.0010	0.0030	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 52	0.14	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 66	0.088	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	red .
PCB Congener BZ# 101	0.16	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 128	0.017	ug/g wet	0.0012	0.0036	Modified AC	AC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 138	0.10	ug/g wet	0.0017	0.0051	Modified AC	OAC 983.21	04/03/2003 12:0	O AM Approv	/ed
PCB Congener BZ# 153	0.15	ug/g wet	0.0014	0.0042	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 187	0.020	ug/g wet	0.0022	0.0066	Modified AC	OAC 983.21	04/03/2003 12:0	OAM Approv	/ed
PCB Congener BZ# 195	0.0019 M	ug/g wet	0.0011	0.0033	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 206	0.0015 M	ug/g wet	0.0012	0.0036	Modified AC	OAC 983.21	04/03/2003 12:0	00 AM Approv	/ed
PCB Congener BZ# 209	ND	ug/g wet	0.0014	0.0042	Modified AC	DAC 983.21	04/03/2003 12:0	00 AM Approv	ved .
Lipid Concentration	0.18	%			Modified AC	OAC 983.21	04/03/2003 12:0	O AM Approv	ved .
Solid Concentration	21	%			Modified AC	DAC 950.46B	05/08/2003 1:00	PM Approv	ved
Species	Winter Floun	der			Fish Proces	sing SOP		Approv	ved
Sample Lab ID#: 2003006-023	Site: AREA I	<del></del>			Matrix:	FBT	Collect Date:	11/25/2002	12:00 PM
Sample Field ID#: NBH02-FF-A-1	Locator: Station	A 195 Overpass			Collector:	Camisa, M	Receive Date:	01/03/2003	9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	St	atus .
Cadmium	ND	mg/Kg wet	0.014	0.042	EPA 200.7		04/29/2003 10:0	00 AM Approv	ved
Chromium	ND	mg/Kg wet	0.014	0.042	EPA 200.7		04/29/2003 10:0	OO AM Approv	ved
Copper	0.12 J	mg/Kg wet	0.014	0.042	EPA 200.7		04/29/2003 10:0	OO AM Approv	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#:         2003006-023           Sample Field ID#:         NBH02-FF-A-1	Site: ARE Locator: Stat	EA I tion A 195 Overpass			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	11/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	Sta	tus
Weight	830	g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approve	ed
Length	73	cm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approve	ed
Abnormalities	None				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approve	ed
Sex	Unknown	1			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approve	ed
Lead	ND	mg/Kg wet	0.14	0.42	EPA 200.7		04/29/2003 10:0	0 AM Approve	ed
Surrogate			Acceptar	nce Criter	ia				
PCNB	88	% Recovery	60	) - 140	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	red .
PCB A1232	ND	ug/g wet	0.95	2.9	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approve	ed
PCB A1242	5.4	ug/g wet	0.95	2.9	Modified A	OAC 983.21	04/03/2003 12:0	O AM Approve	ed
PCB A1248	ND	ug/g wet	1.9	5.5	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB A1254	62	ug/g wet	0.65	1.9	Modified A	OAC 983.21	04/03/2003 12:0	O AM Approve	ed
PCB A1260	3.5	ug/g wet	1.1	3.3	Modified A	OAC 983.21	04/03/2003 12:0	O AM Approve	ed
PCB Toxic Congener BZ#77	ND	ug/g wet	0.040	0.12	Modified A	OAC 983.21	04/03/2003 12:0	O AM Approve	ed
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.050	0.15	Modified A	OAC 983.21	04/03/2003 12:0	O AM Approvi	ed
PCB Toxic Congener BZ# 105	0.57	ug/g wet	0.065	0.20	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 114	0.19 M	ug/g wet	0.065	0.20	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 118	6.5	ug/g wet	0.060	0.18	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.065	0.20	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.050	0.15	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 156	0.50	ug/g wet	0.055	0.17	Modified A	OAC 983.21	04/03/2003 12:0	00 AM Approv	ed
PCB Toxic Congener BZ# 157	0.13 M	ug/g wet	0.060	0.18	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 167	0.34	ug/g wet	0.060	0.18	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approve	ed
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.030	0.090	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approve	ed
PCB Toxic Congener BZ# 170	0.40	ug/g wet	0.065	0.20	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approve	ed
PCB Toxic Congener BZ# 180	0.66	ug/g wet	0.060	0.18	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.065	0.20	Modified A	OAC 983.21	04/03/2003 12:0	0 AM Approv	ed

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

#### Page 56 of 86

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

O I I I I I I I I I I I I I I I I I I I					•	•	
Sample Lab ID#: 2003006-023 Sample Field ID#: NBH02-FF-A-1	Site: AREA I Locator: Station A	195 Overpass			Matrix: Collector:	FBT Camisa, M	Collect Date: 11/25/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date Status
PCB Congener BZ# 8	ND	ug/g wet	0.050	0.15	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 18	0.30	ug/g wet	0.080	0.24	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 28	2.3	ug/g wet	0.17	0.49	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 44	2.2	ug/g wet	0.050	0.15	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 52	8.4	ug/g wet	0.11	0.33	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 66	3.2	ug/g wet	0.11	0.33	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 101	6.5	ug/g wet	0.11	0.33	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 128	0.75	ug/g wet	0.060	0.18	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 138	4.4	ug/g wet	0.085	0.26	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 153	6.1	ug/g wet	0.070	0.21	Modified AC	OAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 187	0.72	ug/g wet	0.11	0.33	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.055	0.17	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.060	0.18	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.070	0.21	Modified AC	DAC 983.21	04/03/2003 12:00 AM Approved
MDLs and RLs reflect 50X dilution	on of sample.						
Lipid Concentration	9.3	%			Modified A	DAC 983.21	04/03/2003 12:00 AM Approved
Solid Concentration	31	%			Modified A	OAC 950.46B	05/08/2003 1:00 PM Approved
Species	American Eel				Fish Proces	ssing SOP	Approved
Sample Lab ID#: 2003006-024	Site: AREA I				Matrix:	FBT	Collect Date: 11/25/2002 12:00 PM
Sample Field ID#: NBH02-FF-B-1	Locator: Station B	W lighthouse			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 Af
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	ND	mg/Kg wet	0.011	0.033	EPA 200.7		04/29/2003 10:00 AM Approved
Chromium	0.066	mg/Kg wet	0.011	0.033	EPA 200.7		04/29/2003 10:00 AM Approved
Copper	1.0 J	mg/Kg wet	0.011	0.033	EPA 200.7		04/29/2003 10:00 AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact: Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-024 Sample Field ID#: NBH02-FF-B-1	Site: AREA I Locator: Station B W	lighthouse			Matrix: Collector:	FBT Camisa, M	Collect Date: Receive Date:	11/25/2002 01/03/2003	12:00 PM 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method		Analysis Date	St	atus
Weight	764	g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Length	73	cm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Abnormalities	None				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	ved
Sex	Unknown				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approv	/ed
Lead	ND	mg/Kg wet	0.11	0.33	EPA 200.7		04/29/2003 10:0	00 AM Approv	ved
Surrogate			cceptar	nce Criter	ia				
PCNB	86	% Recovery	60	- 140	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Appro	ved
PCB A1232	ND	ug/g wet	0.38	1.1	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Approv	/ed
PCB A1242	0.24	ug/g wet	0.019	0.057	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Approv	/ed
PCB A1248	ND	ug/g wet	0.76	2.2	Modified A	DAC 983.21	04/04/2003 12:0	00 AM Approv	ved
PCB A1254	9.6	ug/g wet	0.26	0.78	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Approv	ved .
PCB A1260	0.88 M	ug/g wet	0.44	1.3	Modified A	OAC 983.21	04/04/2003 12:0	OO AM Appro	ved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.016	0.048	Modified A	OAC 983.21	04/04/2003 12:0	OO AM Appro	ved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.020	0.060	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Appro	ved
PCB Toxic Congener BZ# 105	0.45	ug/g wet	0.026	0.078	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Appro	ved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.026	0.078	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Appro	ved
PCB Toxic Congener BZ# 118	2.1	ug/g wet	0.024	0.072	Modified A	OAC 983.21	04/04/2003 12:0	00 AM Appro	ved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.026	0.078	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.020	0.060	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 156	0.15	ug/g wet	0.022	0.066	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 157	0.047 M	ug/g wet	0.024	0.072	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 167	0.11	ug/g wet	0.024	0.072	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 170	0.098	ug/g wet	0.026	0.078	Modified A	OAC 983.21	04/04/2003 12:	OO AM Appro	ved
PCB Toxic Congener BZ# 180	0.22	ug/g wet	0.024	0.072	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.026	0.078	Modified A	OAC 983.21	04/04/2003 12:	00 AM Appro	ved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)
LFM = Laboratory Fortified Sample Matrix (equiv. MS)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Sample Lab ID#: 2003006-024 Sample Field ID#: NBH02-FF-B-1	Site: AREA I Locator: Station B V	/ lighthouse			Matrix: Collector:	FBT Camisa, M	Collect Date: 11/25/2002 12:00 PM Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method	· · · · · · · · · · · · · · · · · · ·	Analysis Date Status
PCB Congener BZ# 8	ND	ug/g wet	0.020	0.060	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 18	ND	ug/g wet	0.032	0.096	Modified AC		04/04/2003 12:00 AM Approved
PCB Congener BZ# 28	0.38	ug/g wet	0.066	0.20	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 44	0.27	ug/g wet	0.020	0.060	Modified AC	DAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 52	1.5	ug/g wet	0.044	0.13	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 66	0.73	ug/g wet	0.044	0.13	Modified AC	DAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 101	1.7	ug/g wet	0.044	0.13	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 128	0.25	ug/g wet	0.024	0.072	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 138	1,5	ug/g wet	0.034	0.10	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 153	1.1	ug/g wet	0.028	0.084	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 187	0.17	ug/g wet	0.044	0.13	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 195	ND	ug/g wet	0.022	0.066	Modified AC	OAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 206	ND	ug/g wet	0.024	0.072	Modified AC	DAC 983.21	04/04/2003 12:00 AM Approved
PCB Congener BZ# 209	ND	ug/g wet	0.028	0.084	Modified AC	DAC 983.21	04/04/2003 12:00 AM Approved
MDLs and RLs reflect 20X dilution	on.						
Lipid Concentration	8.5	%			Modified AC	DAC 983.21	04/04/2003 12:00 AM Approved
Solid Concentration	31	%			Modified AC	DAC 950.46B	05/08/2003 1:00 PM Approved
Species	American Eel				Fish Proces	ssing SOP	Approved
Sample Lab ID#: 2003006-025	Site: AREAI				Matrix:	FBT	Collect Date: 12/13/2002 12:00 PM
Sample Field ID#: NBH02-FF-C-1	Locator: Station C S	W Culvert			Collector:	Camisa, M	Receive Date: 01/03/2003 9:55 AM
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date Status
Cadmium	ND	mg/Kg wet	0.009	0.026	EPA 200.7		04/29/2003 10:00 AM Approved
Chromium	ND	mg/Kg wet	0.009	0.026	EPA 200.7		04/29/2003 10:00 AM Approved
Copper	0.14 J	mg/Kg wet	0.009	0.026	EPA 200.7		04/29/2003 10:00 AM Approved
J= LRB contamination exceeded	1 10% of the concentration	in the sample					

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:         2003006-025           Sample Field ID#:         NBH02-FF-C-1	Site: AREA I Locator: Station C SV	V Culvert			Matrix: FE Collector: Ca	BT amisa, M	Collect Date: Receive Date:	12/13/2002 12:00 F 01/03/2003 9:55 A
Analyte/Compound	Result	Units	MDL.	RDL	Method		Analysis Date	Status
Weight	117	g wet			Fish Processing	SOP	03/18/2003 1:00	PM Approved
Length	43	cm			Fish Processing	SOP	03/18/2003 1:00	PM Approved
Abnormalities	None				Fish Processing	SOP	03/18/2003 1:00	PM Approved
Sex	Unknown				Fish Processing	SOP	03/18/2003 1:00	PM Approved
Lead	ND	mg/Kg wet	0.088	0.26	EPA 200.7		04/29/2003 10:00	AM Approved
Surrogate		4	cceptan	ce Criter	l <u>a</u>		هاهستین به اسان پروهها نیوان اسان اسان اسان اسان اسان اسان اسان ا	
PCNB	86	% Recovery	60	- 140	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB A1232	ND	ug/g wet	0.38	1.1	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB A1242	0.78 M	ug/g wet	0.38	1.1	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB A1248	ND	ug/g wet	0.76	2.2	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB A1254	12	ug/g wet	0.26	0.78	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB A1260	0.92 M	ug/g wet	0.44	1.3	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 77	ND	ug/g wet	0.016	0.048	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.020	0.060	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 105	0.57	ug/g wet	0.026	0.078	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.026	0.078	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 118	2.3	ug/g wet	0.024	0.072	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.026	0.078	Modified AOAC	983.21	04/04/2003 12:0	AM Approved
PCB Toxic Congener BZ# 126	ND	ug/g wet	0.020	0.060	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 156	0.15	ug/g wet	0.022	0.066	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 157	0.045 M	ug/g wet	0.024	0.072	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 167	0.11	ug/g wet	0.024	0.072	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.012	0.036	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 170	0.097	ug/g wet	0.026	0.078	Modified AOAC	983.21	04/04/2003 12:00	AM Approved
PCB Toxic Congener BZ# 180	0.21	ug/g wet	0.024	0.072	Modified AOAC	983.21	04/04/2003 12:0	AM Approved
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.026	0.078	Modified AOAC	983.21	04/04/2003 12:0	AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

EPA#: MA00019

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

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Jate: U	01/03/2003	9:55 AN
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ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Sample Lab ID#:         2003006-026           Sample Field ID#:         NBH02-FF-D-1	Site: AREA I Locator: Station D M	arina			Matrix: Collector:	FBT Camisa, M		12/13/2002 12:00 Pi 01/03/2003 9:55 Al
Analyte/Compound	Result	<u>Units</u>	MDL	RDL	Method		Analysis Date	<u>Status</u>
Weight	314	g wet			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approved
Length	57	cm			Fish Proces	ssing SOP	03/18/2003 1:00	PM Approved
Abnormalities	None				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approved
Sex	Unknown				Fish Proces	ssing SOP	03/18/2003 1:00	PM Approved
Lead	ND	mg/Kg wet	0.10	0.30	EPA 200.7		04/29/2003 10:00	AM Approved
Surrogate		<u> </u>	cceptan	ce Criter	i <u>a</u>			
PCNB	100	% Recovery	60	- 140	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB A1232	ND	ug/g wet	0.19	0.57	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB A1242	0.56 M	ug/g wet	0.19	0.57	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB A1248	ND	ug/g wet	0.38	1.1	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB A1254	1.3	ug/g wet	0.13	0.39	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB A1260	0.30 M	ug/g wet	0.22	0.66	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 77	0.018 J	ug/g wet	0.0080	0.024	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
Compound quantitated from sec	condary column. No MDL g	enerated from sec	ondary c	olumn.				
PCB Toxic Congener BZ# 81	ND	ug/g wet	0.010	0.030	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 105	0.11	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 114	ND	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 118	0.56	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 123	ND	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 126	ND ·	ug/g wet	0.010	0.030	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 156	0.050	ug/g wet	0.011	0.033	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 157	0.014 M	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 167	0.031 M	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 169	ND	ug/g wet	0.0060	0.018	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 170	0.041	ug/g wet	0.013	0.039	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved
PCB Toxic Congener BZ# 180	0.062	ug/g wet	0.012	0.036	Modified A	OAC 983.21	04/07/2003 12:00	AM Approved

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact:

**Project Coordinator: Paul Craffey** 

Sample Lab ID#: 2003006-026 Sample Field ID#: NBH02-FF-D-1	Site: AREA I Locator: Station D I	Marina			Matrix: FBT Collector: Camisa, M	Collect Date: 12/13 Receive Date: 01/03	3/2002 12:00 PM 3/2003 9:55 AM
Analyte/Compound	Result	Units	MDL	RDL	Method	Analysis Date	Status
PCB Toxic Congener BZ# 189	ND	ug/g wet	0.013	0.039	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 8	ND	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 18	0.050	ug/g wet	0.016	0.048	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 28	0.070 M	ug/g wet	0.033	0.099	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 44	0.047	ug/g wet	0.010	0.030	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 52	0.28	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 66	0.075	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 101	0.18	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 128	0.056	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 138	0.51	ug/g wet	0.017	0.051	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 153	0.67	ug/g wet	0.014	0.042	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 187	0.050 M	ug/g wet	0.022	0.066	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 195	ND	ug/g wet	0.011	0.033	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 206	ND	ug/g wet	0.012	0.036	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
PCB Congener BZ# 209	ND	ug/g wet	0.014	0.042	Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
MDLs and RLs reflect 10X dilution.							
Lipid Concentration	2.0	%			Modified AOAC 983.21	04/07/2003 12:00 AM	Approved
Solid Concentration	26	%			Modified AOAC 950.46B	05/08/2003 1:00 PM	Approved
Species	American Eel				Fish Processing SOP		Approved
		Qua	ality Con	trol Da	la		
Analyte/Compound	OC Type Result	linite	Accor	tance Cr	iteria Method	Snike Conc Snike Unite	Analysis Data

Analyte/Compound	QC Туре	Result	<u>Units</u>	Acceptance Criteria	<u>Method</u>	Spike Conc.	Spike Units	Analysis Date
Cadmium	LFB	88	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/28/2003 10:00 AM
Cadmium	LFB	96	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/29/2003 10:00 AM
Cadmium	LFM	83	% Recovery	70 - 130	EPA 200.7	0.99	mg/Kg wet	04/28/2003 10:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

NA = Not applicable

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

#### Page 63 of 86

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

21 7 11 11 10 10 10

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Contac	·		Project Coordinator, radi Graney									
	. 1			Quali	ty Control Data							
Analyte/Co	ompound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date			
	Sample Lab ID#:											
Cadmium		LFM	102	% Recovery	70 - 130	EPA 200.7	7.9	mg/Kg wet	04/29/2003 10:00 A			
	Sample Lab ID#:											
Cadmium	•	LFM2	94	% Recovery	70 - 130	EPA 200.7	6.1	mg/Kg wet	04/29/2003 10:00 A			
	Sample Lab ID#:	2003006-020										
Cadmium		LRB	ND	mg/L	ND	EPA 200.7	, NA		04/28/2003 10:00 A			
Cadmium		LRB	ND	mg/L	. ND	EPA 200.7	NA		04/29/2003 10:00 A			
Cadmium		QCS	93	% Recovery	70 - 130	EPA 200.7	2.5	mg/Kg dry	04/28/2003 10:00 AI			
Cadmium		QCS	93	% Recovery	70 - 130	EPA 200.7	2.5	mg/Kg dry	04/29/2003 10:00 Al			
Cadmium		QCS2	109	% Recovery	70 - 130	EPA 200.7	1.0	mg/L	04/29/2003 10:00 Af			
Cadmium		Samp DUP	6.5	RPD	0 - 20	EPA 200.7	NA		04/28/2003 10:00 Al			
	Sample Lab ID#:	2003006-001										
Cadmium		Samp DUP	13	RPD	0 - 20	EPA 200.7	NA		04/29/2003 10:00 Al			
	Sample Lab ID#:	2003006-008										
Chromium		LFB	116	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/28/2003 10:00 AI			
LFB accur	acy was acceptable	le in other LFBs in t	he batch; dat	a qualification w	as not necessary.				•			
Chromium		LFB	98	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/29/2003 10:00 Al			
Chromium	•	LFM	112	% Recovery	70 - 130	EPA 200.7	1.0	mg/Kg wet	04/28/2003 10:00 AI			
	Sample Lab ID#:	2003006-001										
Chromium		LFM	92	% Recovery	70 - 130	EPA 200.7	7.9	mg/Kg wet	04/29/2003 10:00 Al			
	Sample Lab ID#:	2003006-008										
Chromium	·	LFM2	90	% Recovery	70 - 130	EPA 200.7	6.1	mg/Kg wet	04/29/2003 10:00 A			
	Sample Lab ID#:	2003006-020										
Chromium	-	LRB	ND	mg/L	ND	EPA 200.7	NA		04/28/2003 10:00 Al			
Chromium		LRB	ND	mg/L	ND	EPA 200.7	NA		04/29/2003 10:00 AI			
O I II O I I I I I I I I I		000	112	% Recovery	70 - 130	EPA 200.7	0.14	mg/Kg dry	04/28/2003 10:00 Al			
Chromium		QCS	112	10 Mecovery	10 - 100	LI A 200.1	V. 17	mg/ng ury	04/20/2003 10.00 AI			

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

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H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

				Quali	ty Control Data		•		
Analyte/C	ompound	QC Type	Result	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
Chromium		Samp DUP	0.0	RPD	0 - 20	EPA 200.7	NA		04/28/2003 10:00 AN
	Sample Lab ID#:	2003006-001							
Chromium		Samp DUP	0.0	RPD	0 - 20	EPA 200.7	NA		04/29/2003 10:00 AM
	Sample Lab ID#:	2003006-008							
Copper		LFB	110	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/28/2003 10:00 AN
Copper	•	LFB	117	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/29/2003 10:00 AM
LFB accu	racy was acceptab	ile in other LFBs in t	he batch; dat	a qualification w	as not necessary.				
Copper		LFM2	104	% Recovery	70 - 130	EPA 200.7	270	mg/Kg wet	04/29/2003 10:00 AN
	Sample Lab ID#:	2003006-020							
Copper		LRB	0.12	mg/L	ND	EPA 200.7	NA		04/28/2003 10:00 AN
Copper		LRB	0.16	mg/L	ND	EPA 200.7	NA		04/29/2003 10:00 AN
Copper		QCS	102	% Recovery	70 - 130	EPA 200.7	72	mg/Kg dry	04/28/2003 10:00 AM
Copper		QCS	96	% Recovery	70 - 130	EPA 200.7	72	mg/Kg dry	04/29/2003 10:00 AM
Copper		Samp DUP	9.5	RPD	0 - 20	EPA 200.7	NA		04/28/2003 10:00 AM
	Sample Lab ID#:	2003006-001							
Copper		Samp DUP	13	RPD	0 - 20	EPA 200.7	NA		04/29/2003 10:00 AM
	Sample Lab ID#	: 2003006-008							
Lead		LFB	96	% Recovery	85 - 115	EPA 200.7	0.25	mg/L	04/28/2003 10:00 AN
Lead		LFB	92	% Recovery	<b>85</b> - 115	EPA 200.7	0.25	mg/L	04/29/2003 10:00 AM
Lead		LFM	87	% Recovery	70 - 130	EPA 200.7	0.99	mg/Kg wet	04/28/2003 10:00 AN
	Sample Lab ID#	: 2003006-001							
Lead		LFM	92	% Recovery	70 - 130	EPA 200.7	7.9	mg/Kg wet	04/29/2003 10:00 AM
	Sample Lab ID#	: 2003006-008							
Lead		LFM2	91	% Recovery	70 - 130	EPA 200.7	6.1	mg/Kg wet	04/29/2003 10:00 AM
	Sample Lab ID#	: 2003006-020							
Lead		LRB	ND	mg/L	ND	EPA 200.7	NA		04/28/2003 10:00 AM
Lead		LRB	ND	mg/L	ND	EPA 200.7	NA		04/29/2003 10:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

NA = Not applicable

#### Page 65 of 86

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

#### **Quality Control Data**

L									
Analyte/Co	ompound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	<b>Analysis Date</b>
Lead		QCS	103	% Recovery	70 - 130	EPA 200.7	0.13	mg/Kg dry	04/28/2003 10:00 AM
Lead	4	QCS2	95	% Recovery	70 - 130	EPA 200.7	1.0	mg/L	04/29/2003 10:00 AM
Lead		Samp DUP	0.0	RPD	0 - 20	EPA 200.7	NA		04/28/2003 10:00 AM
	Sample Lab ID#: 20030	006-001							
Lead		Samp DUP	0.0	RPD	0 - 20	EPA 200.7	NA		04/29/2003 10:00 AM
	Sample Lab ID#: 20030	006-008							

Surrogate								
PCNB	LB	78	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	03/27/2003 12:00 AM
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Contact:	Project Coordinator: Paul Craffey										
		Quality Control Data									
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date			
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AI			
PCB Congener BZ# 18	LB	ИD	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 At			
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AI			
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AI			
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 A			
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 Al			
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 AI			
PCB Congener BZ# 209 Lipid Concentration = 0.58%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/27/2003 12:00 A			
Surrogate							<del></del>				
PCNB	LB	88	% Recovery	60 - 140	Modified AOAC 983.21	0.048	ug/g wet	03/31/2003 12:00 AN			
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 Al			
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 A			
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AI			
•											

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Contact:	Project Coordinator: Paul Craffey										
and the second			Quali	ty Control Data							
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date			
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AN			
PCB Congener BZ# 209 Lipid Concentration = 0.58%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		03/31/2003 12:00 AM			
Surrogate											
PCNB	LB	83	% Recovery	60 - 140	Modified AOAC 983.21		ug/g wet	04/01/2003 12:00 AM			
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AN			

ND = Analyzed for, but not detected above MDL (equiv. U)	ı
Estimated Value:	

M = Analyte concentration > MDL but < RDL

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

Prepared For:

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch:

2003006

**Project Name:** 

New Bedford Harbor Fish

Contact: Project Coordinator: Paul Craffey

**BWSC DIV RESPONSE & REMEDIATION** 

			Qua	lity Control Data				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA:		04/01/2003 12:00 AM
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	· ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

ype Result	· · · · · · · · · · · · · · · · · · ·	ity Control Data									
	linite	Quality Control Data									
	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/01/2003 12:00 AM					
85	% Recovery	60 - 140	Modified AOAC 983.21	0.048	ug/g wet	04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM					
	ND N	ND ug/g wet	ND         ug/g wet         ND           ND         ug/g wet         ND	ND         ug/g wet         ND         Modified AOAC 983.21           ND         ug/g wet         ND	ND         ug/g wet         ND         Modified AOAC 983.21         NA           ND         u	ND         ug/g wet         ND         Modified AOAC 983.21         NA           ND         u					

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

**j** = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

NA = Not applicable

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSÉ & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Contact:				Project	Coordinator: Paul Cr	affey		
			Quali	ty Control Data	•			
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Af
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 At
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Af
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 At
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Af
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Al
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 A
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Al
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Af
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Al
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 A
PCB Congener BZ# 209 Lipid Concentration = 0.68%	LB	ND ·	ug/g wet	ND	Modified AOAC 983.21	NA		04/03/2003 12:00 Al
Surrogate								
PCNB Surrogate recovery just belo	LB w lower acceptar	54 nce limit; how	% Recovery ever, other LBs in	60 - 140 n the batch were accep	Modified AOAC 983.21 ptable. Data qualification		ug/g wet essary.	04/04/2003 12:00 AN
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 Af
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 Al
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 Al
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 A
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 A
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 A
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 A
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 A
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 Al

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 200

2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

Analyte/Compound PCB Toxic Congener BZ# 118 PCB Toxic Congener BZ# 123	QC Type LB LB LB	<u>Result</u> ND ND	<u>Units</u> ug/g wet	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
• •	LB		ug/g wet					
PCB Toxic Congener BZ# 123		ND		ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
	LB		ug/g wet	ND .	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 126		ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	. ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983,21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 0.87%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/04/2003 12:00 AM
Surrogate				<u></u>				
PCNB	LB	88	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	04/07/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

				ing continue butter				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB A1248	LB	ND	ug/g wet	ND .	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	· ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 169	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 52	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM
<del>-</del>								

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

DWGC DW DECDO

Project Name:

New Bedford Harbor Fish

Prepared For: Contact:

BWSC DIV RESPONSE & REMEDIATION

Project Coordinator: Paul Craffey

	Quality Control Data									
Analyte/Compound	QC Type	Result	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date		
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM		
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM		
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM		
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM		
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/07/2003 12:00 AM		
PCB Congener BZ# 209 Lipid Concentration = 0.43%	LB	ND	ug/g wet	ND .	Modified AOAC 983.21	NA		04/07/2003 12:00 AM		
Surrogate										
PCNB	LB	88	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	04/08/2003 12:00 AM		
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB A1242	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 118	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 123	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 126	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 156	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 157	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 167	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 169	ĹB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 170	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		
PCB Toxic Congener BZ# 180	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM		

ND ≈ Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

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LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSÉ & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### Quality Control Data

			Quali	ity Control Data				
Analyte/Compound	QC Type	Result	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Toxic Congener BZ# 189	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 8	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 18	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 28	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 44	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 52	LB	ND	ug/g wet	· ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 66	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 101	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 128	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 138	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 153	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 187	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 195	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 206	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 0.64%	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/08/2003 12:00 AM
Surrogate								
PCNB	LB	92	% Recovery	60 - 140	Modified AOAC 983.21		ug/g wet	04/09/2003 12:00 AM
PCB A1232	LB	ND	ug/g wet	ND	Modified AOAC 983.21	7.7		04/09/2003 12:00 AM
PCB A1242	LB .	ND	ug/g wet	ND	Modified AOAC 983.21			04/09/2003 12:00 AM
PCB A1248	LB	ND	ug/g wet	ND	Modified AOAC 983.21			04/09/2003 12:00 AM
PCB A1254	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/09/2003 12:00 AM
PCB A1260	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/09/2003 12:00 AM
PCB Toxic Congener BZ# 77	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/09/2003 12:00 AM
PCB Toxic Congener BZ# 81	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/09/2003 12:00 AM
PCB Toxic Congener BZ# 105	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/09/2003 12:00 AM
PCB Toxic Congener BZ# 114	LB	ND	ug/g wet	ND	Modified AOAC 983.21	NA		04/09/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

04/09/2003 12:00 AM

03/27/2003 12:00 AM

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003006

**Quality Control Data** 

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

Modified AOAC 983.21

Modified AOAC 983.21 NA

Modified AOAC 983.21 0.049

#### Analyte/Compound QC Type Result Units Acceptance Criteria Method Spike Conc. Spike Units Analysis Date PCB Toxic Congener BZ# 118 LB ND Modified AOAC 983.21 NA ug/g wet ND 04/09/2003 12:00 AM ND LB ND PCB Toxic Congener BZ# 123 ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM LB ND ND PCB Toxic Congener BZ# 126 ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM ND ND PCB Toxic Congener BZ# 156 LB ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM PCB Toxic Congener BZ# 157 LB ND ND Modified AOAC 983.21 NA ug/g wet 04/09/2003 12:00 AM LB ND ND Modified AOAC 983.21 NA PCB Toxic Congener BZ# 167 ug/g wet 04/09/2003 12:00 AM PCB Toxic Congener BZ# 169 LB ND ND Modified AOAC 983.21 NA ug/g wet 04/09/2003 12:00 AM PCB Toxic Congener BZ# 170 LB ND ug/g wet ND Modified AOAC 983.21 NA 04/09/2003 12:00 AM PCB Toxic Congener BZ# 180 LB ND ND Modified AOAC 983.21 NA 04/09/2003 12:00 AM ug/g wet LB ND ND Modified AOAC 983.21 NA PCB Toxic Congener BZ# 189 ug/g wet 04/09/2003 12:00 AM ND PCB Congener BZ# 8 LB ND ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM LB ND ND PCB Congener BZ# 18 ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM ND ND PCB Congener BZ# 28 LB ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM ND PCB Congener BZ# 44 LB ND ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM PCB Congener BZ# 52 LB ND ug/g wet ND Modified AOAC 983.21 NA 04/09/2003 12:00 AM LB ND ND PCB Congener BZ# 66 Modified AOAC 983.21 NA 04/09/2003 12:00 AM ug/g wet ND PCB Congener BZ# 101 LB ND Modified AOAC 983.21 ug/g wet 04/09/2003 12:00 AM ND ND PCB Congener BZ# 128 LB ug/g wet Modified AOAC 983.21 NA 04/09/2003 12:00 AM

ND

ND

ND

ND

ND

ND

60 - 140

ND = Analyzed for, but not detected above MDL (equiv. U	J)
Estimated Value:	

LB

LB

LB

LB

LB

LB

LFB

ND

ND

ND

ND

ND

ND

92

ug/g wet

ug/g wet

ug/g wet

ug/g wet

ug/g wet

ug/g wet

% Recovery

ug/g wet

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

NA = Not applicable

PCNB

PCB Congener BZ# 138

PCB Congener BZ# 153

PCB Congener BZ# 187

PCB Congener BZ# 195

PCB Congener BZ# 206

PCB Congener BZ# 209

Lipid Concentration = 0.71%
Surrogate

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB A1232	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB A1242	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB A1248	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB A1254	LFB	112	% Recovery	60 - 140	Modified AOAC 983.21	0.49	ug/g wet	03/27/2003 12:00 AM
PCB A1260	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 77	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 81	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 105	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 114	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 118	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 123	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 126	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 156	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 157	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 167	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 169	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 170	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Toxic Congener BZ# 189	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 8	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 18	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 28	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 44	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 52	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 66	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 101	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM
PCB Congener BZ# 128	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	03/27/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003006

Prepared For:

BWSC DIV RESPONSE & REMEDIATION

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffev

#### Contact: **Quality Control Data** Analyte/Compound QC Type Result Units Acceptance Criteria Method Spike Conc. Spike Units **Analysis Date** PCB Congener BZ# 138 LFB ND 60 - 140 Modified AOAC 983.21 % Recovery NA ug/g wet 03/27/2003 12:00 AM PCB Congener BZ# 153 LEB ND % Recovery 60 - 140Modified AOAC 983.21 ug/g wet 03/27/2003 12:00 AM PCB Congener BZ# 187 LFB ND % Recovery 60 - 140 Modified AOAC 983.21 ug/g wet 03/27/2003 12:00 AM LFB ND PCB Congener BZ# 195 % Recovery 60 - 140 Modified AOAC 983.21 NA ua/a wet 03/27/2003 12:00 AM ND PCB Congener BZ# 206 LFB % Recovery 60 - 140 Modified AOAC 983.21 ug/g wet 03/27/2003 12:00 AM PCB Congener BZ# 209 LFB ND 60 - 140 Modified AOAC 983.21 NA 03/27/2003 12:00 AM % Recovery ug/g wet Lipid Concentration = 0.57% Surrogate **PCNB** LFB 90 % Recovery 60 - 140 Modified AOAC 983 21 0.050 ug/g wet 04/03/2003 12:00 AM PCB A1232 LFB ND 60 - 140 Modified AOAC 983.21 % Recovery ug/g wet 04/03/2003 12:00 AM PCB A1242 LFB ND 60 - 140 Modified AOAC 983.21 % Recovery NA ug/g wet 04/03/2003 12:00 AM **PCB A1248** LFB ND 60 - 140 Modified AOAC 983.21 NA 04/03/2003 12:00 AM % Recovery ug/g wet PCB A1254 LFB ND % Recovery 60 - 140 Modified AOAC 983.21 NA ug/g wet 04/03/2003 12:00 AM **PCB A1260** I FR ND 60 - 140Modified AOAC 983.21 04/03/2003 12:00 AM % Recovery NA ug/g wet LFB 112 PCB Toxic Congener BZ# 77 60 - 140 Modified AOAC 983.21 0.025 04/03/2003 12:00 AM % Recovery ug/g wet LFB 80 60 - 140 Modified AOAC 983.21 PCB Toxic Congener BZ# 81 0.025 04/03/2003 12:00 AM % Recovery ug/g wet 92 PCB Toxic Congener BZ# 105 LFB 60 - 140 Modified AOAC 983.21 0.025 04/03/2003 12:00 AM % Recovery ug/g wet PCB Toxic Congener BZ# 114 LFB 96 % Recovery 60 - 140Modified AOAC 983.21 0.025 04/03/2003 12:00 AM ug/g wet PCB Toxic Congener BZ# 118 LFB 112 % Recovery 60 - 140Modified AOAC 983.21 0.025 ug/g wet 04/03/2003 12:00 AM 100 60 - 140PCB Toxic Congener BZ# 123 LFB % Recovery Modified AOAC 983.21 0.025 ug/g wet 04/03/2003 12:00 AM LFB 96 PCB Toxic Congener BZ# 126 % Recovery 60 - 140Modified AOAC 983.21 0.025 ug/g wet 04/03/2003 12:00 AM PCB Toxic Congener BZ# 156 LFB 108 % Recovery 60 - 140Modified AOAC 983.21 0.025 ua/a wet 04/03/2003 12:00 AM 100 PCB Toxic Congener BZ# 157 LFB % Recovery 60 - 140Modified AOAC 983.21 0.025 04/03/2003 12:00 AM ua/a wet 92 PCB Toxic Congener BZ# 167 LFB % Recovery 60 - 140 Modified AOAC 983.21 0.025 04/03/2003 12:00 AM ug/g wet PCB Toxic Congener BZ# 169 **LFB** % Recovery 60 - 140Modified AOAC 983.21 0.025 ug/g wet 04/03/2003 12:00 AM Percent recovery outside acceptance limits. Results for extraction set (4/3/03) still considered valid.

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSÉ & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

			Quali	ty Contion Data				
Analyte/Compound	QC Type	Result	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Toxic Congener BZ# 170 Percent recovery outside acce	LFB eptance limits. Re	56 esults for extra	% Recovery action set (4/3/03	60 - 140 ) still considered valid	Modified AOAC 983.21	0.025	ug/g wet	04/03/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFB	100	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/03/2003 12:00 AM
PCB Toxic Congener BZ# 189 Lipid Concentration = 0.62%	LFB	76	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 8	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 18	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 28	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 44	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	· NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 52	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 66	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 101	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 128	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 138	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 153	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 187	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 195	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 206	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
PCB Congener BZ# 209	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/03/2003 12:00 AM
Surrogate								
PCNB	LFB	92	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	04/08/2003 12:00 AM
PCB A1232	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB A1242	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB A1248	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB A1254	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB A1260	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ#77	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively Identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

#### Page 79 of 86

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For:

Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

			Quun	ty control butt				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Toxic Congener BZ# 81	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 105	LFB	112	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 114	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 118	LFB	104	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 123	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 126	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 156	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 157	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 167	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 169	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 170	LFB	124	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFB	124	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Toxic Congener BZ# 189	LFB	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 8	LFB	100	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 18	LFB	128	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN
PCB Congener BZ# 28	LFB	104	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN
PCB Congener BZ# 44	LFB	92	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 52	LFB	104	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN
PCB Congener BZ# 66	LFB	108	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 101	LFB	104	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN
PCB Congener BZ# 128	LFB	116	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 138	LFB	112	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN
PCB Congener BZ# 153	LFB	108	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN
PCB Congener BZ# 187	LFB	120	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 195	LFB	116	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AM
PCB Congener BZ# 206	LFB	116	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 AN

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Contact:

# MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For: BWSC DIV RESPONSE & REMEDIATION

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

			Quaii	ty Control Data				
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	<b>Analysis Date</b>
PCB Congener BZ# 209 Lipid Concentration = 0.53%	LFB	120	% Recovery	60 - 140	Modified AOAC 983.21	0.025	ug/g wet	04/08/2003 12:00 Al
Surrogate								
PCNB	LFM	84	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	04/01/2003 12:00 AM
PCB A1232	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB A1242	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AI
PCB A1248	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB A1254	LFM	102	% Recovery	60 - 140	Modified AOAC 983.21	0.50	ug/g wet	04/01/2003 12:00 AI
PCB A1260	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 77	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 81	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 105	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 114	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 118	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 123	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 126	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 A
PCB Toxic Congener BZ# 156	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 157	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 167	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 169	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 A
PCB Toxic Congener BZ# 170	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 A
PCB Toxic Congener BZ# 180	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Toxic Congener BZ# 189	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 A
PCB Congener BZ# 8	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Congener BZ# 18	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 Al
PCB Congener BZ# 28	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 A
PCB Congener BZ# 44	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AI

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

B = Analyte detected in sample, and in LRB and/or

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)
QCS = Quality Control Sample (external to lab)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

Report for Login Batch: 2003006

Analysis Report for Login Batch:

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

Project Name:

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

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Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Congener BZ# 52	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 66	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 101	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 128	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 138	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 153	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 187	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 195	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 206	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 0.22%	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/01/2003 12:00 AM

Sample Lab ID#: 2003006-017

Sample Lab ID#. 2	003000-017							
Surrogate								
PCNB	LFM	102	% Recovery	60 - 140	Modified AOAC 983.21	0.050	ug/g wet	04/07/2003 12:00 AM
PCB A1232	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB A1242	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB A1248	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB A1254	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB A1260	LFM	114	% Recovery	60 - 140	Modified AOAC 983.21	0.80	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 77	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 81	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 105	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 114	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 118	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 123	LFM	ND	% Recovery .	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 126	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 156	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) Estimated Value:

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

EPA #: MA00019

Analysis Report for Login Batch:

2003006 -

**Project Name:** 

New Bedford Harbor Fish

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Coordinator: Paul Craffey** 

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Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB Toxic Congener BZ# 157	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 167	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 169	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 170	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 180	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Toxic Congener BZ# 189	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 8	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 18	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 28	LFM	ND -	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 44	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 52	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 66	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 101	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 128	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 138	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 153	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 187	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 195	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 206	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM
PCB Congener BZ# 209 Lipid Concentration = 2.2%	LFM	ND	% Recovery	60 - 140	Modified AOAC 983.21	NA	ug/g wet	04/07/2003 12:00 AM

Sample Lab ID#: 2003006-026

Surrogate								
PCNB	Samp DUP	81	% Recovery	60 - 140	Modified AOAC 983.21	0.048	ug/g wet	03/31/2003 12:00 AM
PCB A1232	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB A1242	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB A1248	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

#### Page 83 of 86

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS** WILLIAM X, WALL EXPERIMENT STATION

EPA #: MA00019

Analysis Report for Login Batch: 2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Project Coordinator: Paul Craffey

#### **Quality Control Data**

				,				
Analyte/Compound	QC Type	Result	Units	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date
PCB A1254	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB A1260	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 77	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 81	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 105	Samp DUP	8.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 114	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 118	Samp DUP	22	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 123	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 126	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 156	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 157	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 167	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 169	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 170	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 180	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Toxic Congener BZ# 189	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 8	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 18	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 28	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 44	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 52	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 66	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 101	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA	•	03/31/2003 12:00 AM
PCB Congener BZ# 128	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 138	Samp DUP	17	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 153	Samp DUP	12	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
PCB Congener BZ# 187	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM
=								

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL H = USEPA holding time exceeded

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS) QCS = Quality Control Sample (external to lab)

J = Other QC criteria not met (see comments)

Analysis Report for Login Batch: 2003006

Prepared For:

BWSC DIV RESPONSE & REMEDIATION

Project Name:

New Bedford Harbor Fish

Contact:		Project Coordinator: Paul Craffey											
		:	Quali	ty Control Data									
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date					
PCB Congener BZ# 195	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM					
PCB Congener BZ# 206	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM					
PCB Congener BZ# 209	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AM					
Sample Lab ID#: 20	003006-011												
Surrogate													
PCNB	Samp DUP	86	% Recovery	60 - 140	Modified AOAC 983.21	0.049	ug/g wet	04/04/2003 12:00 AM					
PCB A1232	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB A1242	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB A1248	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB A1254	Samp DUP	3.1	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB A1260	Samp DUP	3.4	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 77	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 81	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 105	Samp DUP	2.2	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 114	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 118	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 123	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 126	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 156	Samp DUP	6.5	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 157	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 167	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 169	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 170	Samp DUP	2.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 180	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Toxic Congener BZ# 189	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Congener BZ# 8	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					
PCB Congener BZ# 18	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM					

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

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J = Other QC criteria not met (see comments)

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R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

#### Page 85 of 86

### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION **DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION**

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For: Contact:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

**Project Coordinator: Paul Craffey** 

Contact.				110,000	Coordinator. Faur Cr	uncy						
en de la companya de Mangana de la companya		Quality Control Data										
Analyte/Compound	QC Type	Result	<u>Units</u>	Acceptance Criteria	Method	Spike Conc.	Spike Units	Analysis Date				
PCB Congener BZ# 28	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 44	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 52	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 66	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM				
PCB Congener BZ# 101	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 128	Samp DUP	3.9	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 138	Samp DUP	0.0	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 153	Samp DUP	63	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AM				
PCB Congener BZ# 187 Results reflect 20X dilution.	Samp DUP	5.7	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 195	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 206	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
PCB Congener BZ# 209	Samp DUP	ND		0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
Sample Lab ID#: 2	003006-024											
Lipid Concentration	Samp DUP	11	RPD	0 - 25	Modified AOAC 983.21	NA		03/31/2003 12:00 AN				
Sample Lab ID#: 2	2003006-011											
Lipid Concentration	Samp DUP	2.4	RPD	0 - 25	Modified AOAC 983.21	NA		04/04/2003 12:00 AN				
Sample Lab ID#: 2	2003006-024											
Solid Concentration	Samp DUP	6.7	RPD	0 - 20	Modified AOAC 950.46	B NA		05/08/2003 1:00 PM				
Sample Lab ID#: 2	2003005-001											
Solid Concentration	Samp DUP2	2.7	RPD	0 - 20	Modified AOAC 950.46	B NA		05/08/2003 1:00 PM				
Sample Lab ID#: 2	2003006-001											
Solid Concentration	Samp DUP3	1.5	RPD	0 - 20	Modified AOAC 950.46	3 NA		05/08/2003 1:00 PM				
Sample Lab ID#: 2	2003006-002											
Solid Concentration	Samp DUP4	2.4	RPD	0 - 20	Modified AOAC 950.46	3 NA		05/08/2003 1:00 PM				
Sample Lab ID#: 2												
Solid Concentration	Samp DUP5	2.6	RPD	0 - 20	Modified AOAC 950.46	3 NA		05/08/2003 1:00 PM				

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

H = USEPA holding time exceeded

J = Other QC criteria not met (see comments)

B = Analyte detected in sample, and in LRB and/or trip blank or no trip blank was collected

N = GC/MS non-target tentatively identified compound (TIC) - no standard available for quantitation

R = Data rejected due to severe QC, quantitation and/or qualitative ID deficiencies

MDL = Method Detection Limit

RDL = Reporting Detection Limit (equiv. MRL)

LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS)

LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

Report Print Date: 06/26/2003

#### MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION

**DIVISION OF ENVIRONMENTAL ANALYSIS WILLIAM X. WALL EXPERIMENT STATION** 

EPA #: MA00019

Analysis Report for Login Batch:

2003006

Prepared For:

**BWSC DIV RESPONSE & REMEDIATION** 

**Project Name:** 

New Bedford Harbor Fish

Contact:

Project Coordinator: Paul Craffey

**Quality Control Data** 

Analyte/Compound

QC Type

Result

Units

Acceptance Criteria Method

Spike Conc. Spike Units

**Analysis Date** 

Page 86 of 86

Sample Lab ID#: 2003006-024

Approved\*:

Vea Q. Q. al Date:

05/22/2003

\*QA Level 1 and 2 Completed - QA/QC documentation, raw analytical data, and Chain-of-Custody/Sample Tracking Form are available upon request.

ND = Analyzed for, but not detected above MDL (equiv. U) **Estimated Value:** 

M = Analyte concentration > MDL but < RDL

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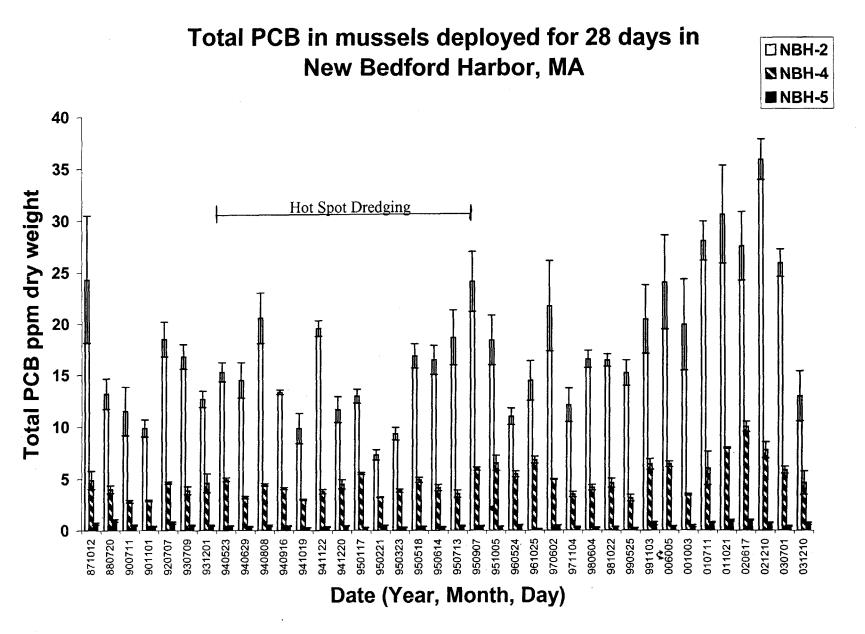
LRB = Laboratory Reagent Blank

LB = Laboratory Blank (equiv. Method Blank)

LFB = Laboratory Fortified Blank (equiv. LCS) LFM = Laboratory Fortified Sample Matrix (equiv. MS)

QCS = Quality Control Sample (external to lab)

### Appendix C



Note: reported concentrations are the total of the ten most prevalent congeners (52, 101, 118, 128, 138, 153, 180, 195, 206, 209). NBH-2 is at the Coggeshall Street bridge, NBH-4 is at the hurricane barrier, and NBH-5 is the reference station at West Island in Fairhaven.

### Appendix D

#### PCB SUMMARY SHEET

### PCB analysis in lobsters from sampling sites in New Bedford Harbor (Area 3) Division of Marine Fisheries and State Food and Drug ppm (ug/g wet wt. edible portion)

Station	*1980 Spring 		*1981 Summer DMF	*1981 Fall DMF	1982 Spring DMF	1982 Spring F&D	1982 Summer F&D	1982 Fall DMF	1982 Fall F&D	1983 Spring DMF	1983 Fall DMF	1984 Spring F&D	1984 Fall F&D	1985 Spring DMF	1985 Fall DMF	*1986 Spring DMF	1986 Fall DMF	1987 Spring DMF	1987 Fall DMF
777	5.8	3.2		1.7	5.4	6.5	2.2	1.9	5.0	3.5	2.0	5.7	5.0	4.3	4.6				
KKK	4.8			0.8	2.1	6.5	1.9	1.4	3.2	7.0	2.3	6.0	4.4	3.3	2.6	1.88	1.15	5.29	2.79
LLL				2.2	4.6	8.1	5.7	23.8	8.1	2.7	4.4	7.6	7.0	6.8	6.8	4.83	8.31	7.82	2.91
MMM	4.4			0.7	4.0	5.5	2.2	2.2	6.4	7.6	3.4	9.3	4.2	5.5	4.4	1.41	1.55	4.95	4.08
RR				1.2	7.5	8.8	4.6	11.5	3.3	6.1	2.9	8.1	7.0	6.1	11.4	3.43	3.21	5.52	5.83**
SS	4.7	2.3	8.8	0.5	7.5	7.4	6.1	6.9	4.1	3.8	3.9	11.1	7.6	3.6	3.8	3.01	2.35	5.79	5.24
TT		1.6	8.3	1.1	4.4	5.8	3.4	3.2	6.1	7.8	5.5	2.9	3.4	5.1	3.9	4.51	1.77	4.49	6.58**
UU	3.4	0.8	4.0	0.4	2.9	4.6	2.5	2.4	2.1	2.1	1.3	3.1	4.9	3.4	1.0	2.59	1.38	4.65	2.36
νν	2.4	0.8	2.5	0.7	3.3	3.9	0.7	0.6	2.7	1.0	2.1	7.0	1.5	3.9		1.61	1.81	1.74	0.89
YY	4.8	1.2	1.7	0.7	2.0	5.5	2.1	1.2	3.2		2.8	2.9	4.1	5.2	*2.0	1.72	1.91	2.99	1.23
<b>ZZ</b>	2.4	2.3		1.1	2.9	3.5	1.7	1.3	2.9	1.2	2.0	3.6	3.3	5.6	1.1	3.15	2.63	3.15	2.60
Season Av	ve. 4.1	1.7	5.1	1.0	4.2	6.0	3.0	5.1	4.3	4.3	3.0	6.1	4.8	4.8	4.2	2.81	2.61	4.64	3.45

#### (Continued)

	Spring 1989	Fall 1989	Spring 1990	Spring 1991	Spring 1992	Spring 1993	Spring 1994	Spring 1995	Spring 1996	Spring 1997	Spring 1998
Station	DMF	DMF	DMF	DMF	DMF	DMF	DMF	DMF	DMF	DMF	DMF
JJJ											
KKK	2.90	1.12	1.60	2.60	1.70	1.50	0.40	0.94	1.20	1.40	0.64
LLL	2.09	1.80	4.63	6.30	0.21	0.80	0.38	1.60	0.82	1.30	0.79
MMM	3.17	2.19	1.63	2.20	1.00	0.76	0.33	1.50	0.75	0.72	0.92
RR	4.19	1.74	2.11	1.60	0.77	1.20	0.68	1.00	1.30	1.20	1.20
SS	3.74	1.90	1.82	1.10	0.62	1.20	0.75	1.40	0.87	0.88	0.78
ΤT	1.58	1.81	1.52	2.10	0.48	1.40	0.46	1.40	0.82	0.89	0.95
UU	2.58	1.58	2.84	3.70	1.30	1.30	1.10	1.50	0.50	0.74	0.74
VV	3.18	1.47	1.94	2.00	1.10	1.20	0.77	0.97	0.37	0.60	0.63
YY	2.01	2.13	3.57	2.70	1.20	0.95	0.77	1.70	0.60	0.73	0.63
ZZ	2.56	2.53	2.37	2.10	1.10	1.10	0.64	1.10	0.54	0.70	0.85
Season Av	e. 2.80	1.83	2.40	2.60	0.95	1.10	0.63	1.30	0.78	1.02	0.81

<sup>\*</sup> Values for 1980-1981, Spring 1986, and Sta. YY - Fall 1985 represent averages of individual analyses or single analyses. All other values are composite PCB concentrations of 2-3 individuals.

<sup>\*\*</sup> Values are averages of two composites.