

New Bedford Harbor Superfund Site

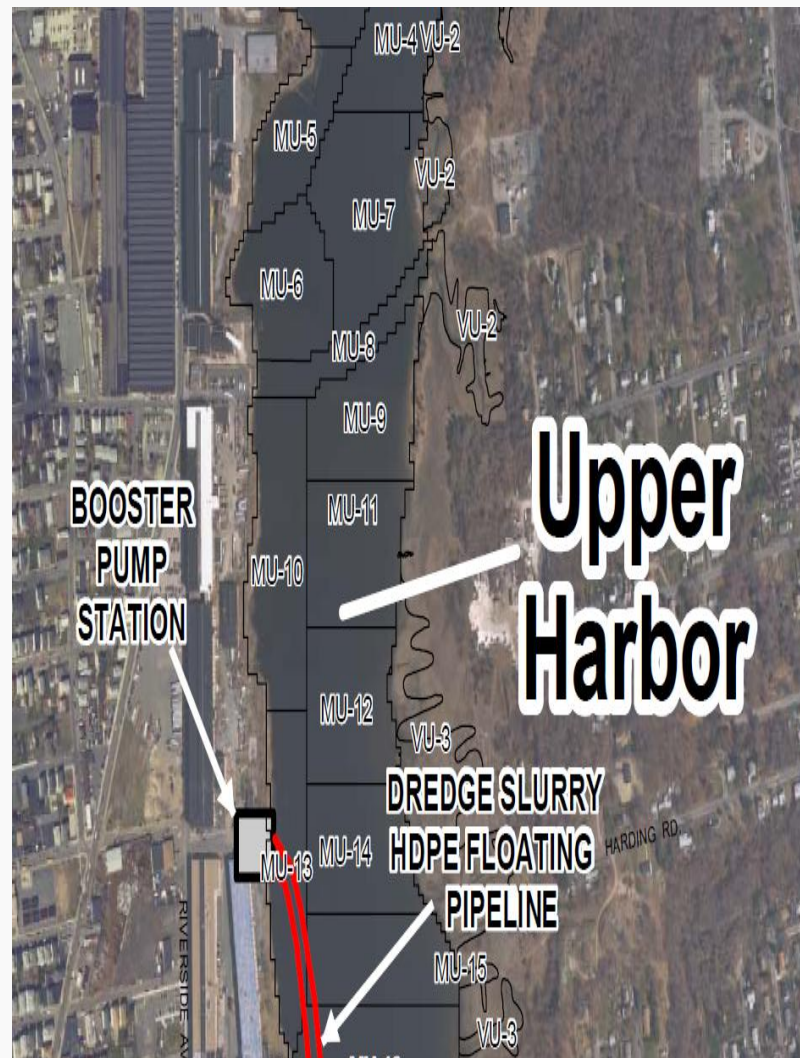
2012-2013 Upper Harbor Dredging Overview

June 13, 2013



2012 Season Summary

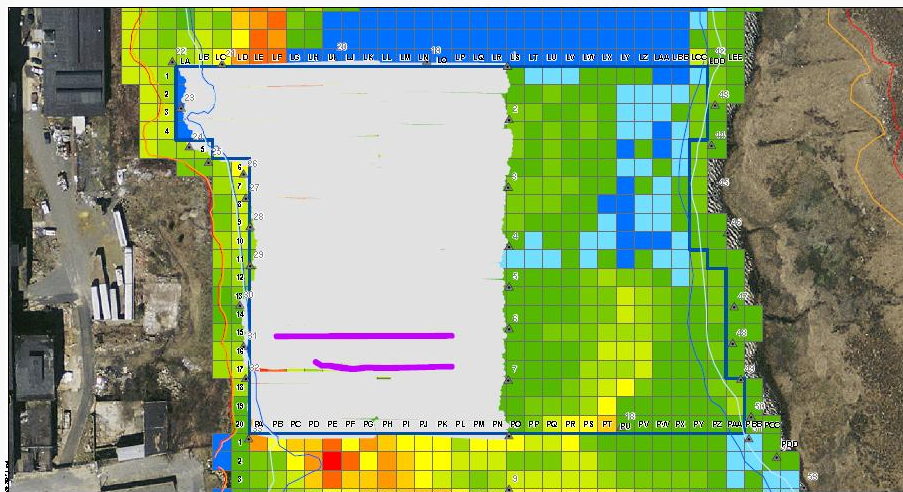
- **Dredged sediment:** 19,502 cubic yards (cy)
- **Total dredged to Date:** approx. 250,000 cy* (out of 900,000 cy)
- **Total Dredging days:** 52
- **Dredge Areas L & P**
 - Proximity of Manomet St. and the former Cliftex Mill Buildings
 - Continue to Dredge these Areas in 2013



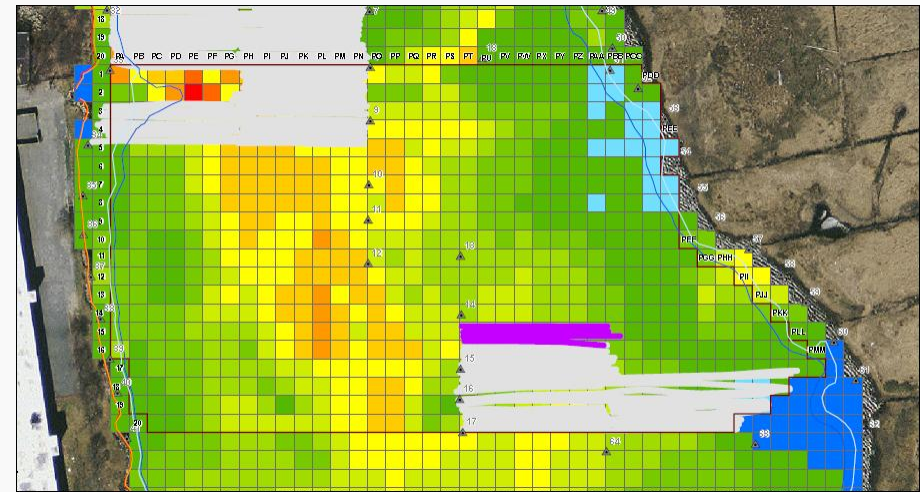
* OU2 Hot Spot dredged quantity of 14,000 cy not included

Current Dredge Areas

Area L



Area P



Legend

-  8 foot buffer representing area of cut
-  8 foot buffer representing area of cut from previous 2012 dredging activities

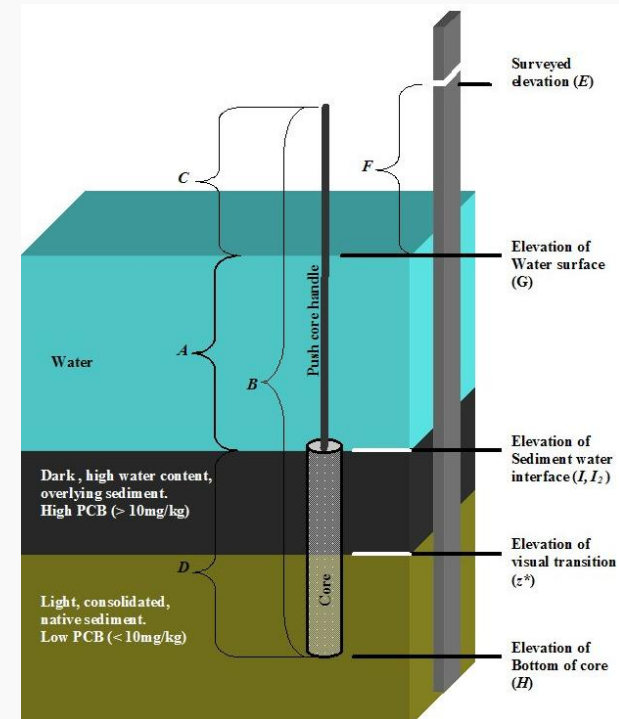
-  2012 Sheet Pile Locations
-  MLLW
-  MLW
-  MHW
-  MHHW

Z Blocks

	0		3.1 - 3.5
	0.1 - 1.0		3.6 - 4.0
	1.1 - 1.5		4.1 - 4.5
	1.6 - 2.0		4.6 - 5.0
	2.1 - 2.5		5.1 - 5.5
	2.6 - 3.0		

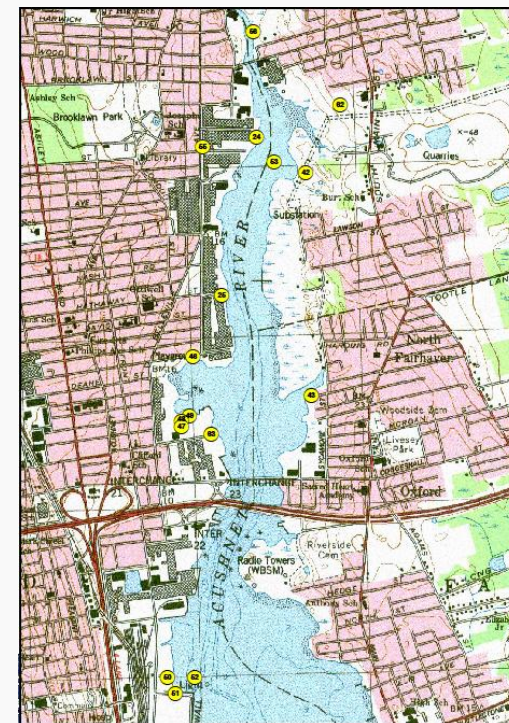
Sediment Sampling

- **Samples collected during and after dredging**
 - Sediment cores taken to assess mass removal effort
 - Laboratory analysis to determine remaining PCB levels



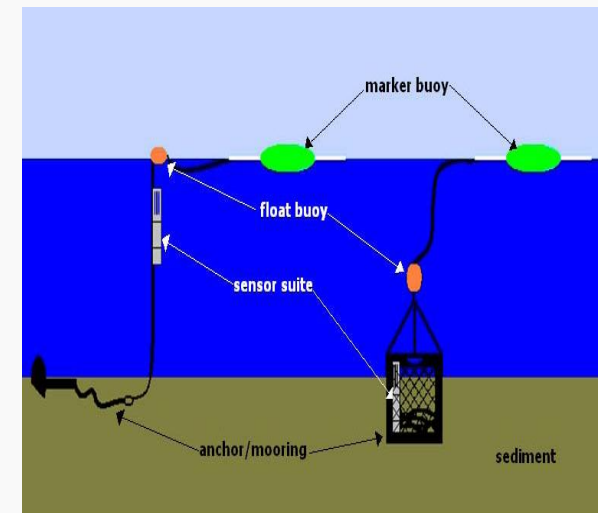
Air Monitoring

- **Frequency for 2012 season**
 - One sampling round before dredging
 - Two (2) sampling rounds times during dredging
 - One post-dredge sampling round
- **Results**
 - Consistent with previous years
 - Data reported in annual Dredge Season Reports and in air monitoring section of the NBH website to be posted soon



Water Quality & Fish Migration Monitoring

- **Measured Turbidity, Dissolved Oxygen, & PCB concentration**
 - Boat-based (discrete water samples) - physical, chemical, and biological testing
 - Mooring (continuous; fixed points) - affects from weather events, tidal activity, etc.
- **Results:**
 - No water quality exceedences
 - No restriction of fish movement passing the dredge areas



Archaeology Update

- **Marine Archaeological Survey of Dredge Areas**
 - Completed & submitted to Archaeological Stakeholders
 - No submerged cultural resources (SCRs) confirmed
 - No known impact to existing historic channels
- **Recovered Artifacts**
 - One historic ship anchor given to the City of New Bedford
 - Baptismal fountain cover returned to the Grace Church in New Bedford.
 - Shipwreck timbers, one anchor, and historic shoe has been/ will be disposed of
- **All Finds have been documented and the reports will be available on the NBH website: EPA Harbor Website: www.epa.gov/nbh**





Other 2012 Monitoring

- **North of Wood Street**
 - Data has been consistent as previous years
 - subtidal area PCB concentrations vary
 - Intertidal areas remain less than or equal to target PCB cleanup levels
- **Groundwater at Sawyer Street**
 - No change from previous years, indicating no contaminant migration from Pilot CDF
- **Pilot Cap near Hurricane Barrier**
 - Bathymetric and sediment sampling for PCBs
 - Cap cover ranges between 1 to 6 feet; with concentrations averaging 0.56 ppm within the cap area
- **Additional Sediment Samples collected along Aerovox shoreline**

2013 Upper Harbor Dredging

- Mobilization began June 3, 2013
- Dredging 43 days between June 28 and August 30
- Baseline water quality and air monitoring conducted
- Continue Dredging Areas L & P (same as last year)
 - Continue to focus on mass removal
 - Material will be taken off-site by truck
 - Archaeology survey completed last year
 - New this year - adding in telemetry units to water quality monitoring to track real-time conditions



Update on Former Aerovox Facility Site

- **EPA non-time critical removal action (NTCRA) Notice of Completion for building demolition and site capping was issued on May 16, 2013**
- **AVX Final Report, EPA Quality Assurance Report and the AVX Monitoring and Maintenance Plan will be available on the NBH website**
- **Site is currently capped and monitored in accordance with the 2010 EPA/AVX Administrative Order on Consent**
- **MassDEP will now oversee subsurface investigations and any cleanup actions required at the site, in accordance with MassDEP Ch. 21E and the 2010 MassDEP/AVX Administrative Consent Order**



More Information

- **EPA Harbor Website:** www.epa.gov/nbh
- **Contact EPA Community Involvement Coordinator**
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