

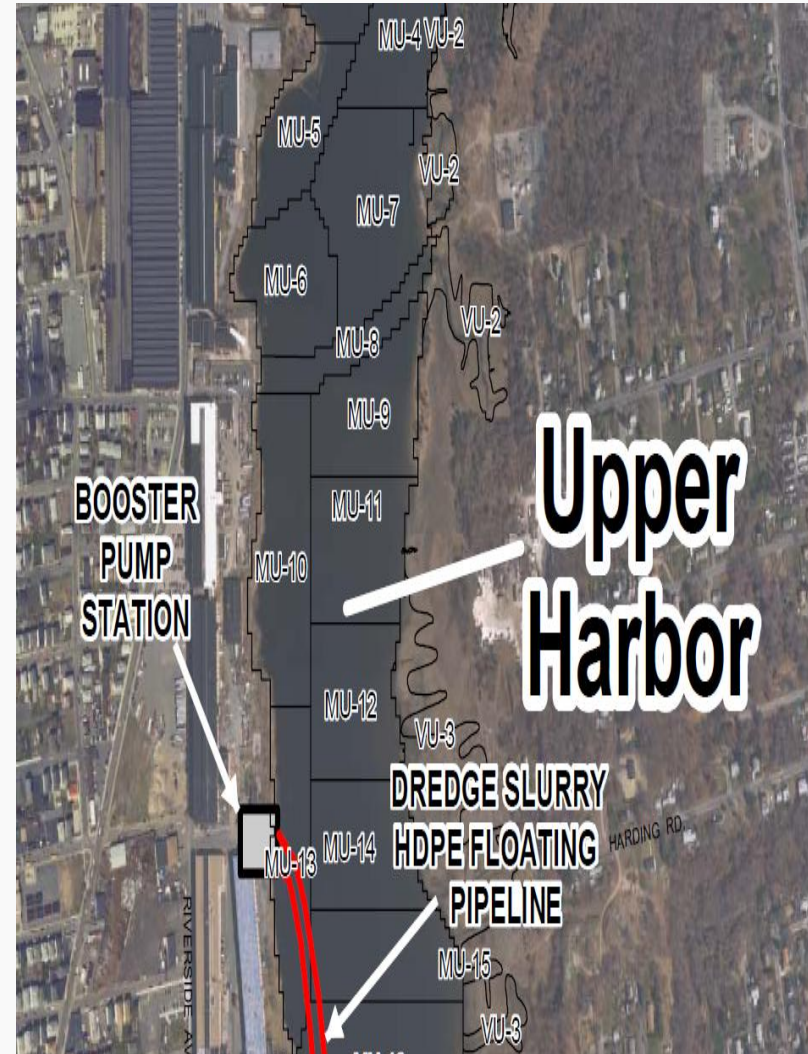
# **New Bedford Harbor Superfund Site**

## **2012-2013 Upper Harbor Dredging Overview**

**June 13, 2013**

# 2012 Season Summary

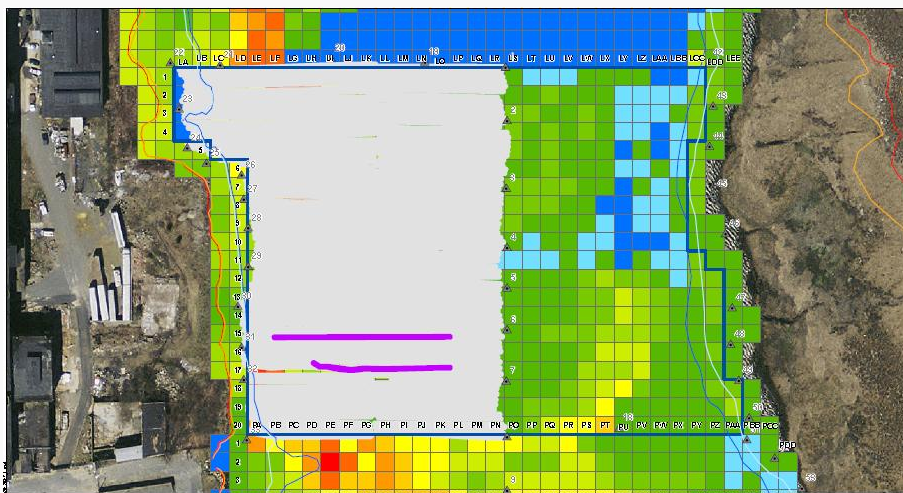
- **Dredged sediment:** 19,502 cubic yards (cy)
- **Total dredged to Date:** approx. 250,000 cy\* (out of 900,000 cy)
- **Total Dredging days:** 52
- **Dredge Areas L & P**
  - Proximity of Manomet St. and the former Cliftex Mill Buildings
  - Continue to Dredge these Areas in 2013



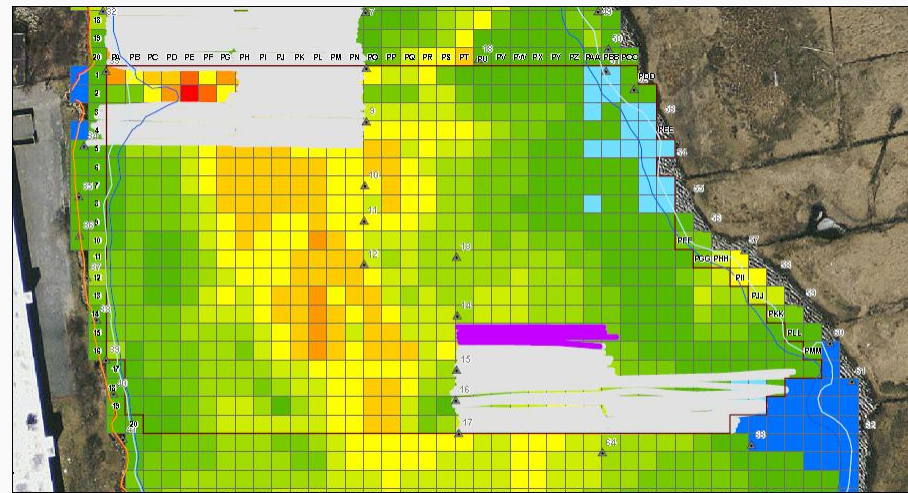
\* OU2 Hot Spot dredged quantity of 14,000 cy not included

# Current Dredge Areas



## Area L



















## Area P



### Legend

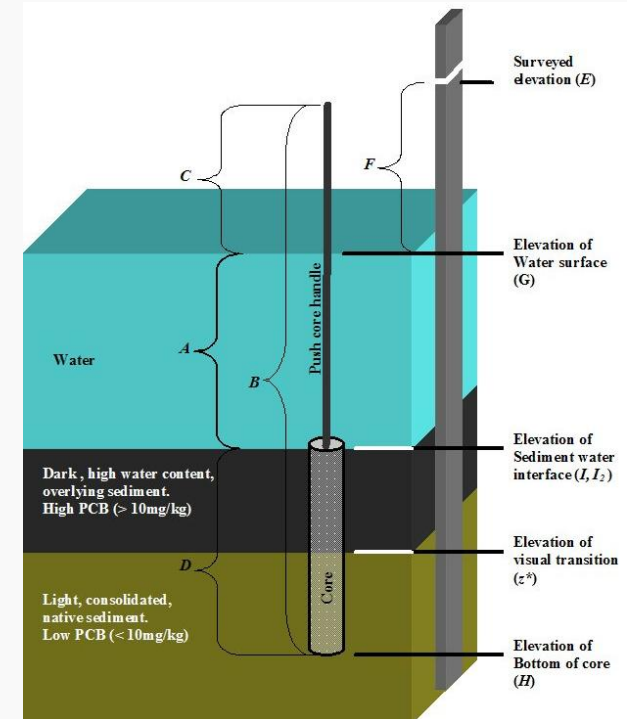
-  8 foot buffer representing area of cut
-  8 foot buffer representing area of cut from previous 2012 dredging activities

-  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

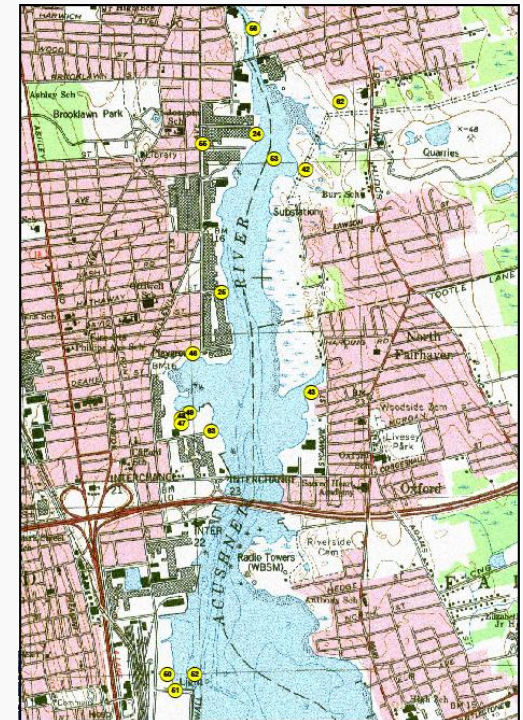
- **Samples collected during and after dredging**
  - Sediment cores taken to assess mass removal effort
  - Laboratory analysis to determine remaining PCB levels





# Air Monitoring

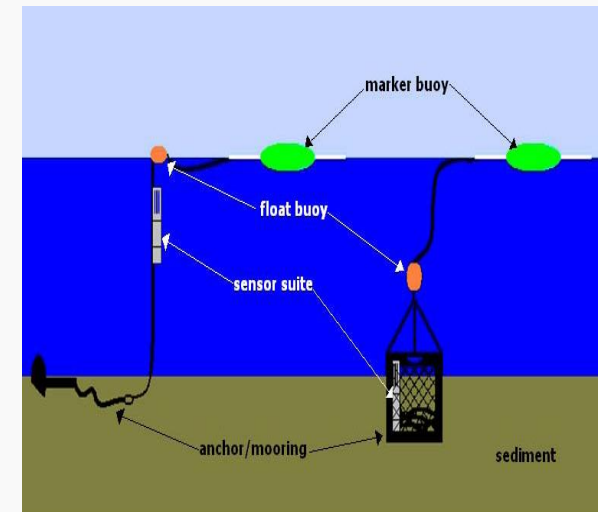
- **Frequency for 2012 season**
  - One sampling round before dredging
  - Two (2) sampling rounds times during dredging
  - One post-dredge sampling round
- **Results**
  - Consistent with previous years
  - Data reported in annual Dredge Season Reports and in air monitoring section of the NBH website 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](http://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](http://www.epa.gov/nbh)
- **Contact EPA Community Involvement Coordinator**
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