LOWER HARBOR CAD CELL TECHNICAL WORKING GROUP MEETING April 25th, 2012: Discussion of Potential Air Impacts

Follow up on Last Meeting

Information to be posted to EPA website soon:

- State Enhanced Remedy (SER) Turbidity Data
- SER Navigational Protocols
- Volumes, Depths, Location Data of Sediment to be Dredged
- Monitoring data from Narragansett EPA Lab and data correlating toxicity testing to turbidity levels.

Carrent Status of Lower Harbor CAD Cell Design

- Lower Harbor CAD Cell under design under Cooperative Agreement with the New Bedford Harbor Development Commission.
- Anticipate CAD cell draft design in May.
- Contract to construct the Lower Harbor CAD cell will be put out to bid this summer.

USEPA LOWER HARBOR CAD CELL PRCJECT TIMELINE 2/27/12						
D	0	Task Name	Duration	Start	Finish	2012 Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan
1	1	Cooperative Agreement signed by EPA	0 cays	Tue 9/13/11	Tue 9/13/11	
2	6	Design Contract Finalized	0 cays	Wed 11/2/11	Wed 11/2/11	11/2
3	8	Task 1: Project Plans and CAD Cell Area Bathymetric Survey	48 tays	Thu 11/10/11	Mon 1/16/12	
4	1	Task 2: CAD Cell Geotechnical Borings and Vibracores	87 days	Tue 12/13/11	Wed 4/11/12	
5	1	Geolechnical Borings	32 days	Tue 12/13/11	Wed 1/25/12	
6		Vibracores	4 ėjs	Tue 1/31/12	Fri 3/30/12	
7		Laboratory Analysis	21 days	Wed 3/14/12	Wed 4/11/12	
8		Task 3: CAD Cell Sub-bottom Survey	23 days	Wed 2029/12	Fri 3/90/12	
9	8	Task 4: CAD Cell Design	40 days	Mon 4/2/12	Fri 5/25/12	
10	6	Task 5: Offshore Disposal Permitting/ Suitability Determination	35 days	Fri 4/13/12	Thu 5/31/12	
11		Task 6: Prepare Dredge Contractor Procurement Package	30 days	Mon 5/28/12	Fri 7/6/12	
12	6	Prepare Procurement Package/Specifications	10 days	Mon 5/28/12	Fri 6/8/12	
13	5	Procurement of Contractor	20 days	Mon 6/11/12	Fri 716/12	
14	1	Task 7: Construction Oversight/ Resident Engineer	149 days	Man 7/9/12	Thu 1/31/13	

Quick Overview

New Bedford Harbor Website:

http://www.epa.gov/nbh





For illustration only, all areas are approximate

Lower Harbor CAD Cell Project

- Dredge 300,000 cubic yards of PCB contaminated sediment (mostly) from Lower Harbor;
- Contaminated at levels between 50 ppm and 190 ppm;
- Disposal in Confined Aquatic Disposal Cell (CAD) in Lower Harbor, allowed to consolidate.
- Three foot thick sand cap to cover consolidated material.

ESD: Lower Harbor CAD Cell Can be Safely Implemented

- Can be safely implemented (four separate sitespecific lines of evidence demonstrate this:
 - Lower Harbor's ecological quality significantly improved since navigational CAD cells implemented
 - State-of-the-science real-time water quality monitoring water quality performed showing protective results
 - Air and water quality modeling supports safe and effective implementation
 - 2005 underwater pilot cap outside the hurricane barrier continues to be protective

Bases of Changes Contained in LHCC ESD

- Evaluation of Short and Long Term Impacts was supportive of the change
- Siting, construction, and O&M can be performed protectively.
- Disposal in LHCC reduces time and cost to complete the harbor cleanup
- Collaboration with navigational dredging may increase cost-effectiveness.
- Potential for beneficial reuse of clean fill from LHCC construction.



Dredged Material Management Plan Area













Air Aspects of ESD

- Air monitoring will be performed during dredging of contaminated material:
 - During construction of LHCC, air monitoring will be performed during dredging of and placement of top of CAD material
 - Not performed during dredging of clean material for CAD cell.
- Dredged materials will not be allowed to dry out prior to placement to avoid generation of airborne dust.
- Significant air quality impacts are not expected due to results of air modeling.
- Results of air monitoring to be posted on EPA website.



Steve Fox, Jacobs: Air Monitoring
Dave Lederer, US EPA: Air Modeling
Margaret McDonough, US EPA: Risk Assessment