Lower Harbor Confined Aquatic Disposal Cell (LHCC) June 13, 2013

### Confined Aquatic Disposal Facility (CAD) Projects in New Bedford Harbor

- EPA Superfund Remedy: EPA (federal) lead Lower Harbor CAD cell project to dredge and dispose of 300,000 cubic yards of sediment above the EPA cleanup level south of I-195, generally 50 ppm.
- State Enhanced Remedy: State-lead projects to dredge and dispose of sediment for maintenance of navigation in New Bedford Harbor. South Terminal Project being implemented by Massachusetts CEC is a component of this.



# State Enhanced Remedy

Two navigational CAD cells, and a 'Borrow Pit' have been successfully built and filled by the since 2004 in order to remove sediments from navigational channels in the Harbor.
A new CAD Cell, CAD 3, is currently under construction as part of the South Terminal project.







For illustration only, all areas are approximate



### Managing the Construction of the Lower Harbor CAD Cell

EPA has signed a cooperative agreement with the Harbor Development Commission to design and oversee the construction of the Lower Harbor CAD cell, or 'LHCC'.

#### 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.

## Status Lower Harbor CAD Cell

- The current contract is only for the construction of the cell, not its filling/capping.
- Plans and Specifications are out for bid by HDC.
- Bids are due soon.
- Construction start around late summer.

 After the LHCC is constructed, a follow on contract will complete dredging sediment, filling the LHCC, capping the LHCC.

## Status Lower Harbor CAD Cell

- Work hours restricted under the contract to 7am-sunset, Monday through Saturday.
- Air monitoring to be conducted during dredging of top-of-CAD material.
- Water Quality monitoring to be conducted
- Construction of the LHCC should take approximately 9 months to complete.



### Benefits to New Bedford Harbor of the Lower Harbor CAD Cell

- The Superfund cleanup of sediment (nonnavigational) will be complete in the 80% of the Harbor comprising the lower harbor.
- Continued improvements in ecology measured in long-term monitoring.
- Potential for beneficial reuse of the clean CAD cell material.

### Benefits to New Bedford Harbor of the Lower Harbor CAD Cell

- Lower flux of contaminated sediment to Buzzard's Bay, currently estimated at about 95 pounds per year.
- Modeling indicates that the project will have negligible impact on air quality during construction.