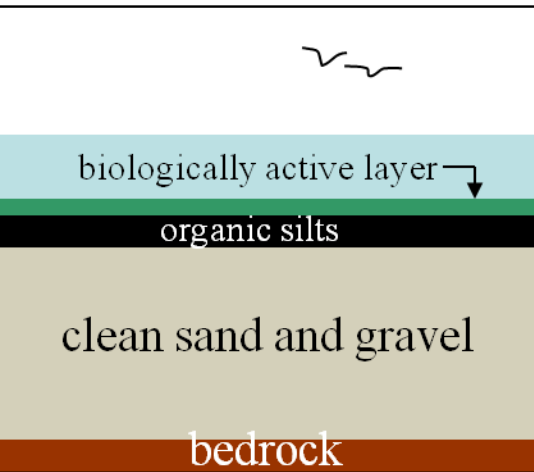
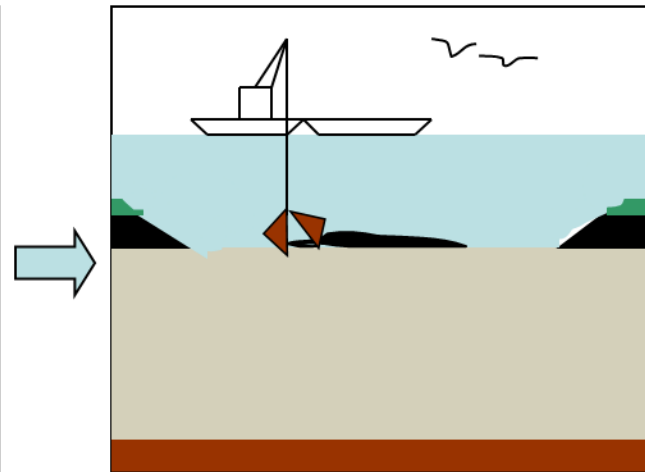


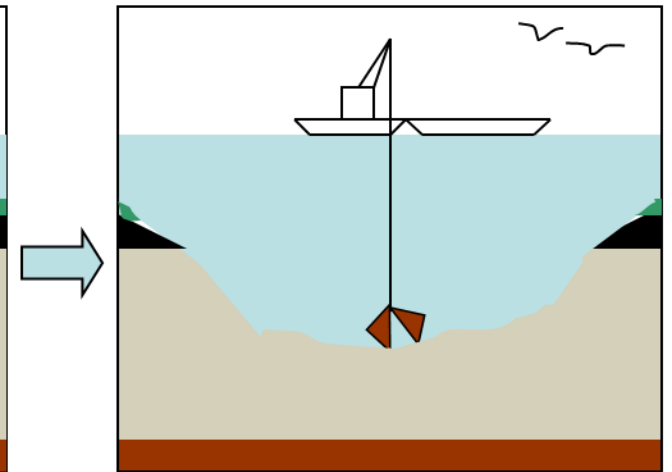
Lower Harbor Confined
Aquatic Disposal Cell (LHCC)
March 13, 2014



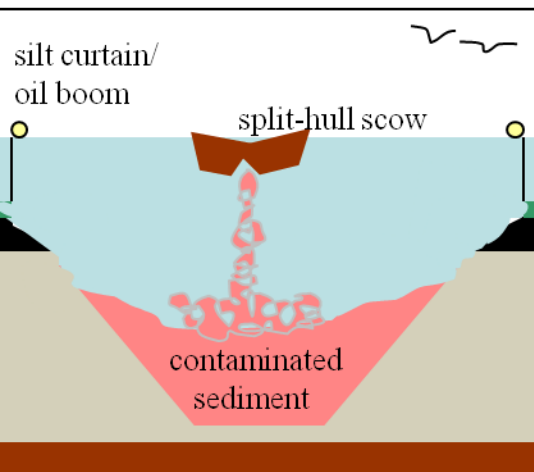
1. Harbor bottom as is



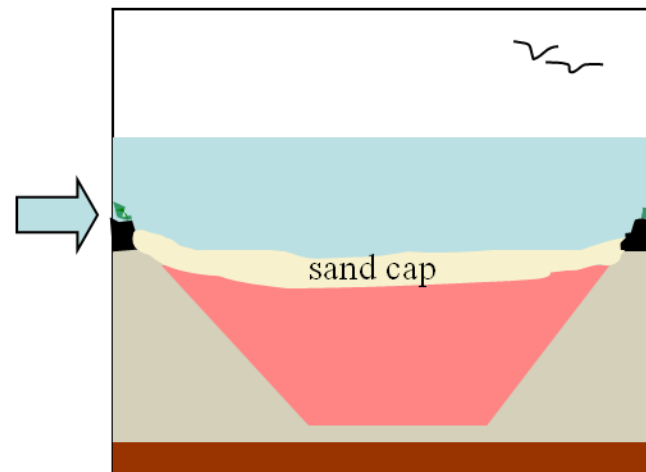
2. Excavation of top silts



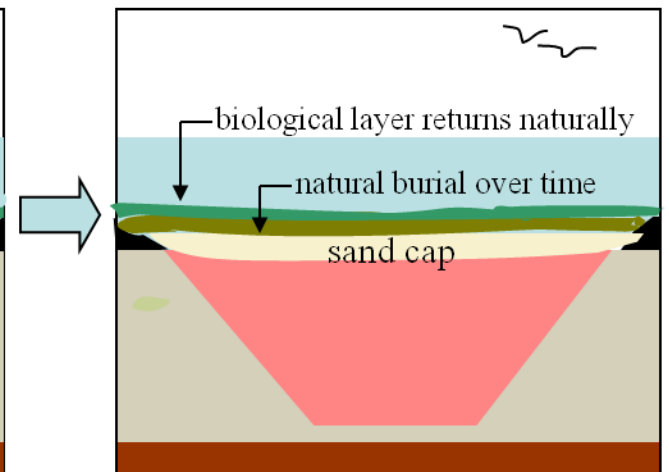
3. Excavation of clean sand



4. Placement of sediments



5. Placement of initial cap



6. Surface fills in over time

What is a confined aquatic disposal cell?

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 approximately 300,000 cubic yards of sediment above the EPA cleanup levels.
- State Enhanced Remedy: South Terminal & other Navigational Dredging of sediment below EPA cleanup levels.



NOTE: red, orange and green denote sediment areas with (or formally with) PCB levels requiring cleanup.

North of Wood Street cleanup (2002-03)

Aerovox

RED areas: continue with current remedy

New Bedford

ORANGE areas: place in Superfund CAD cell

The Superfund CAD cell would be located between the Rt. 195 and Rt. 6 bridges

Three navigational CAD cells have been built to date

Rt 195

Rt 6

Fairhaven

New Bedford Harbor

hurricane barrier

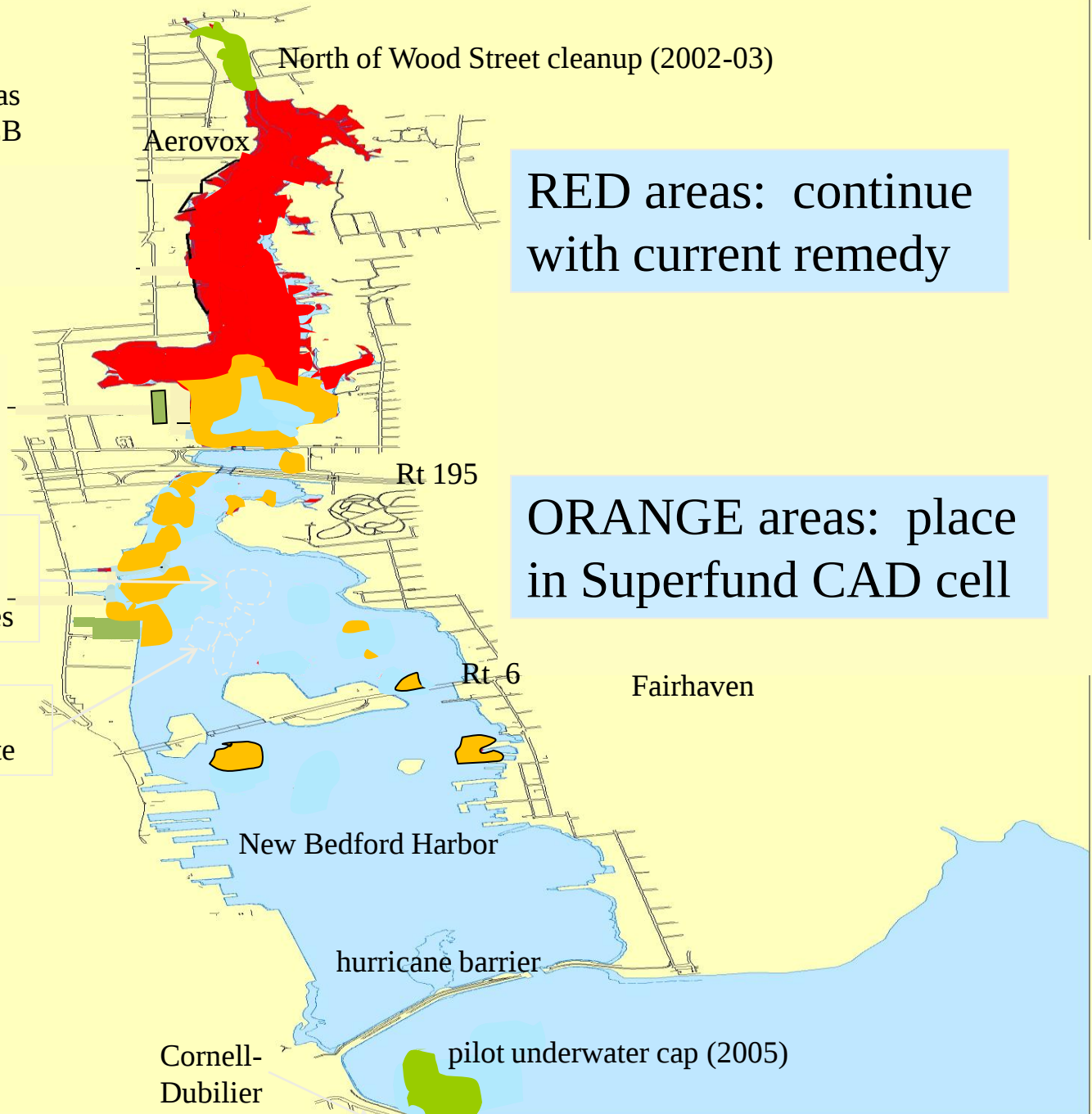
pilot underwater cap (2005)

Cornell-Dubilier

N

app. one mile

For illustration only, all areas are approximate





Phase I: Lower Harbor CAD Cell (LHCC)

- Harbor Development Commission (HDC) has cooperative agreement with EPA to design and oversee the construction of the Lower Harbor CAD cell, or 'LHCC'.
- Phase I of the LHCC construction contracted to Cashman Dredging and Marine Contracting.
- Phase I of the LHCC under construction since November 2013; scheduled to be complete this spring.

Phase I Status: LHCC

- Approximately 28,000 yards of top of CAD material
- Approximately 15,000 yards removed from bottom of CAD thus far.
- Monitoring:
 - Water Turbidity monitoring on-going
 - Results well below project limits
- Phase I air monitoring completed
 - Results well below levels of concern



Map data © 2013 Google, Imagery © 2013 Google, Map data © 2013 Google, Imagery © 2013 Google

Legend

Phase II: Lower Harbor CAD Cell Project

- Phase II scheduled to be constructed during the second half of 2014
- No 24/7 dredging allowed; No work on Sunday
- Work hours restricted to 6:30am-10:30pm; Monday through Saturday
- Air monitoring to be conducted during dredging of top-of-CAD material.
- Water Quality monitoring

Next: Dredging the Lower Harbor

Tentative Schedule (subject to change)

2015-2016: Dredging and disposal

2018: Capping of the Lower Harbor CAD Cell (LHCC)

Benefits to New Bedford Harbor of the Lower Harbor CAD Cell

- ▣ The Superfund cleanup of sediment (non-navigational) 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.