
Confined Disposal Facility

**A Presentation to
RTDF Sediment Redemediation
Action Team Meeting**

Presented by Joseph Porrovecchio

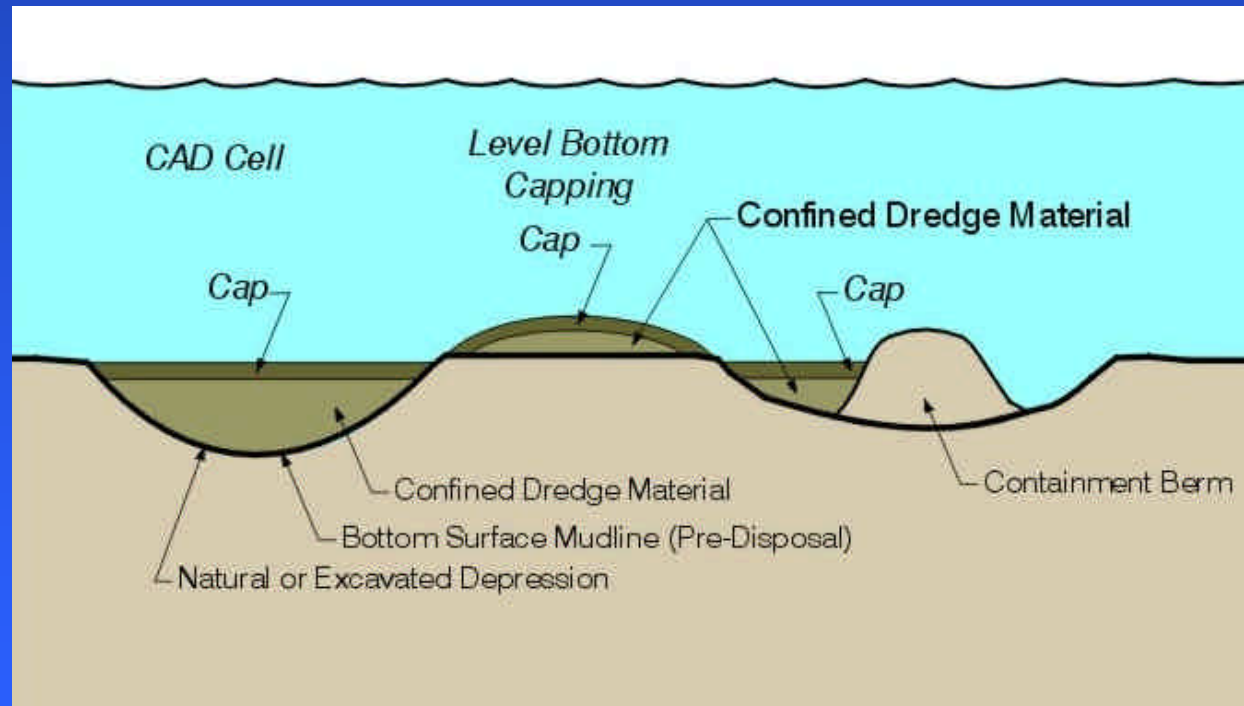
March 13, 2002



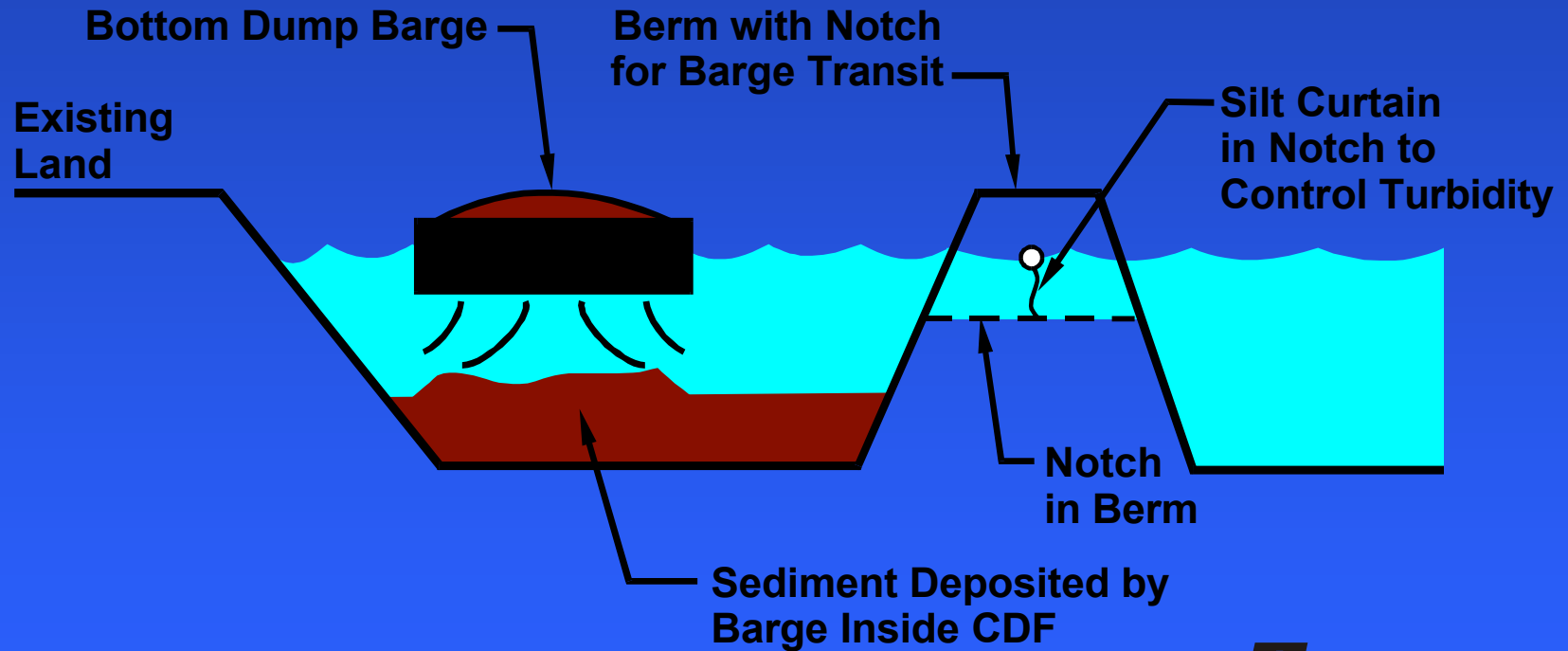
Presentation Outline

- CAD cell definition
- Investigation approach
- Example CDF Projects
- Trend Analysis

Types of Confined Aquatic Disposal Sites



Filling CDF Using Barge



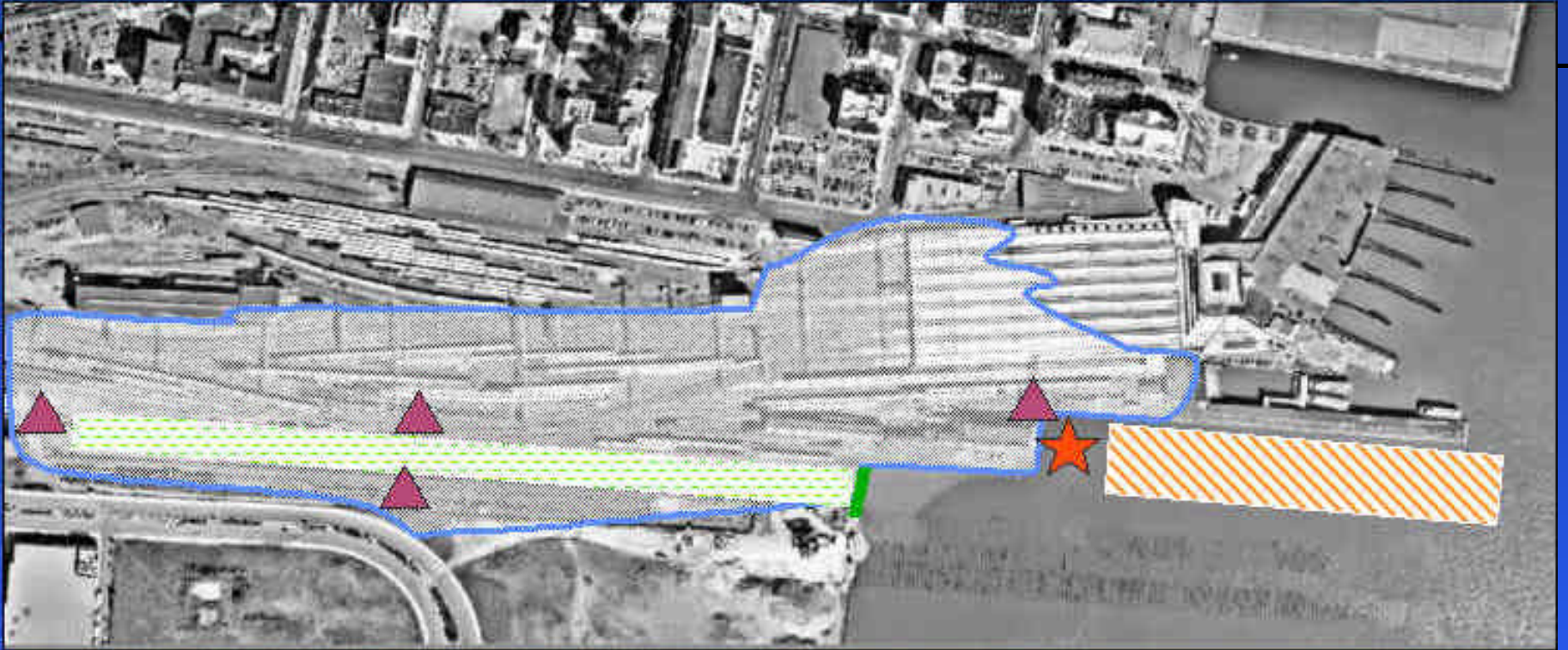


Hoboken Terminal and Habitat Creation Area



Long Slip Canal - View to East



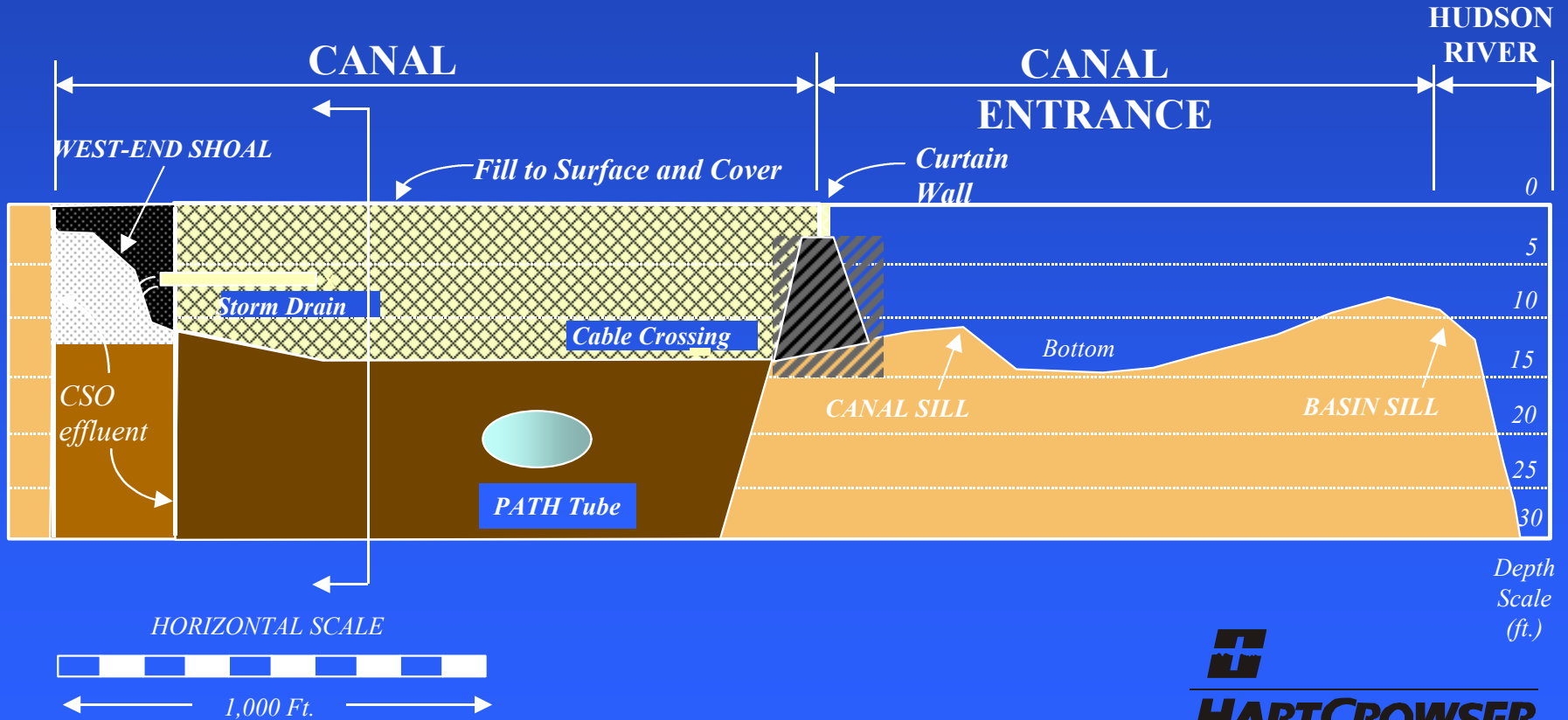


- ★ Extension of existing CSO improved by removal of sediment and floatables
- ▲ Existing discharges to be eliminated
- Rubble bermface (shelter and hard attachment substrate)

- Isolation of oxygen demanding sediment
- ▨ Reconfiguration of shoreline and bottom to optimize circulation
- ▨ Area of managed stormwater
- Landscaping with native species beneficial to wildlife

MANAGEMENT TO CREATE HABITAT

Longitudinal Section of Long Slip Canal and Environs





Morris Canal (Tidewater Basin), NJ



Mill Creek View to West

Jersey Avenue Area Improvement Project



HARTCROWSER

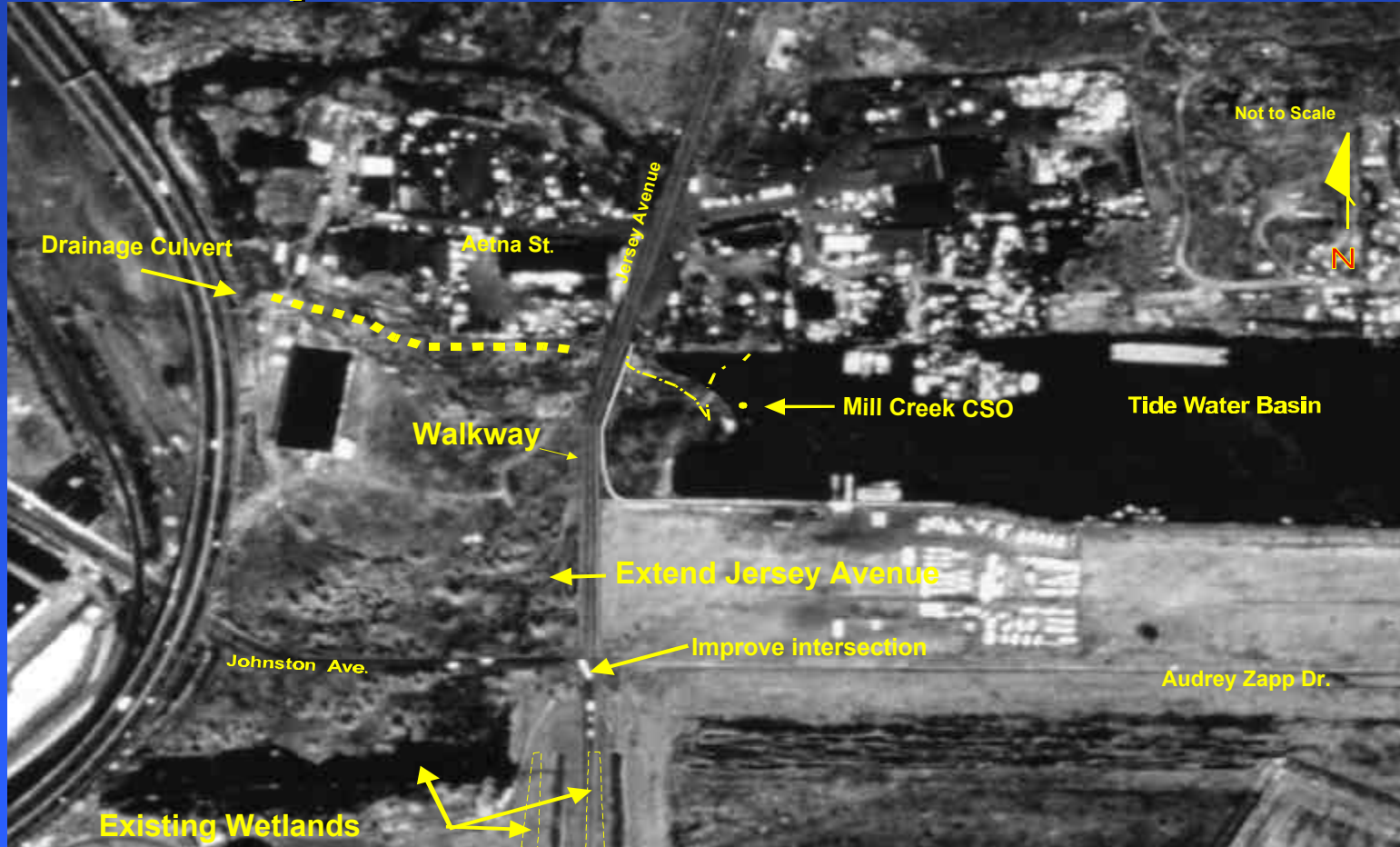
Water Quality Stressors



◆ Point Discharge

★ Site of Known Environmental Concern

Conceptual Plan



Eagle Harbor Bainbridge Island, WA

WASHDOT, Ferry Terminal

Hg Contaminated Sediment



Terminal 91 CDF Seattle, WA

Port of Seattle

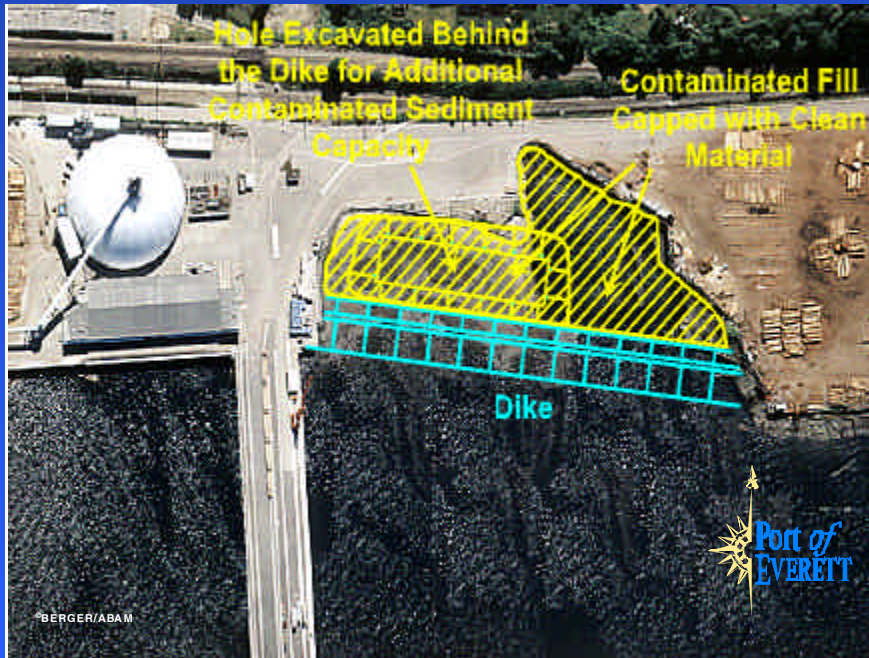
>200,000 cy

Sediment

PCB Contaminated



Everett Terminal • 130,000 Cubic Yards



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway



Milwaukee Waterway Superfund Site

Port of Tacoma

2,000,000 cy

Heavy Metals,

PAH, PCB

Contaminated

Sediment

Metals, PAH,

PCB

contaminated



River Terminal CDF South Kearny, NJ

>200,000 cy

Hg, PAH, Dioxin

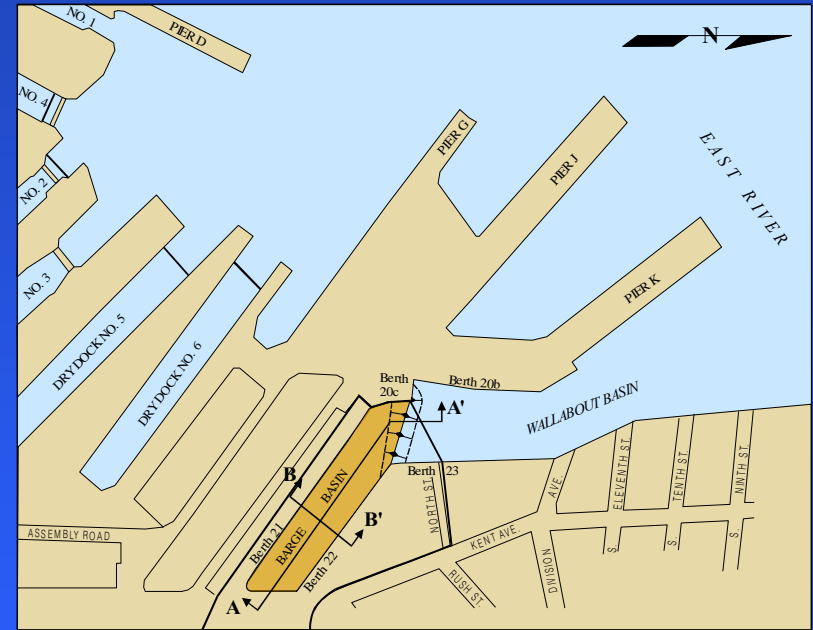
Contaminated
Sediment





HARTCROWSER

Brooklyn Navy Yard

140,000 to 155,000 cy
capacity



coref\jobs\4992\siteplan

-  Location of Proposed Nearshore CDF
-  Navy Yard Property Boundary

 Cross Section
Location and Designation

0 400 800
Scale in Feet



Palmyra Cove Renewable CDF

**Burlington County Bridge
Commission**

200,000 cy annual Capacity

**Delaware River (90% sand)
only**



Analysis of Trends

- Solidification and stabilization popular
- Treatment has not closed the cost gap
- Confined disposal greater acceptance
- Beneficial reuse coming of age

-
- Well-Tested - CDF Technology
 - Evolving - Suitability Evaluation
 - Largest Hurdle - Siting and Permitting
 - Silver Bullet - There is none