An Example of a Unique Partnership for Contaminated Sediment Management – The Port Hueneme Experience

AAPA/USACE Quality Partnership Initiative

4th Annual Project Managers Workshop
Port of Ponce, Puerto Rico
December 1-4, 2008

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Presentation Overview

- Project Background and Design Overview
- Partnership Strategy
- Cost Sharing Allocations
- Lessons Learned



Project Team

- USACE, Los Angeles District
 - Construction Operations
 - Project Management
 - Regulatory
 - Planning
 - Engineering
 - Legal



Project Team Cont.

- U.S. Navy
 - Naval Base Ventura County
 - Southwest Division
 - Legal
 - Planning
- Oxnard Harbor District
- Anchor Environmental LLC
 - Everest International Consultants, Inc
 - iLanco Environmental







Port Hueneme History

- Oxnard Harbor District (OHD) formed in 1937 with 322 acres
- Harbor constructed and operations began in 1940
- Constructed harbor = not state lands
- U.S. Navy acquired harbor by paying off bonds in May, 1942
- Navy agrees to lease 16 acres to OHD in 1947
 - commercial operations begin again



Current Uses

- Oxnard Harbor District (Port of Hueneme)
 - Produce import/export
 - RO/RO automobile imports
- U.S. Navy (Naval Base Ventura County)
 - Construction Battalion Center
 - Naval Surface Warfare Center
 - Pacific Missile Test Range



Port Hueneme – Joint Use



























Challenges for Port Hueneme

- Federal Channel has accumulated ~200,000 meters of O&M material
- USACE has authority to deepen Federal Channel by ~1.5 meters
- None of the berths have been dredged in decades resulting in modified operations
- Contaminated sediments exist throughout Harbor

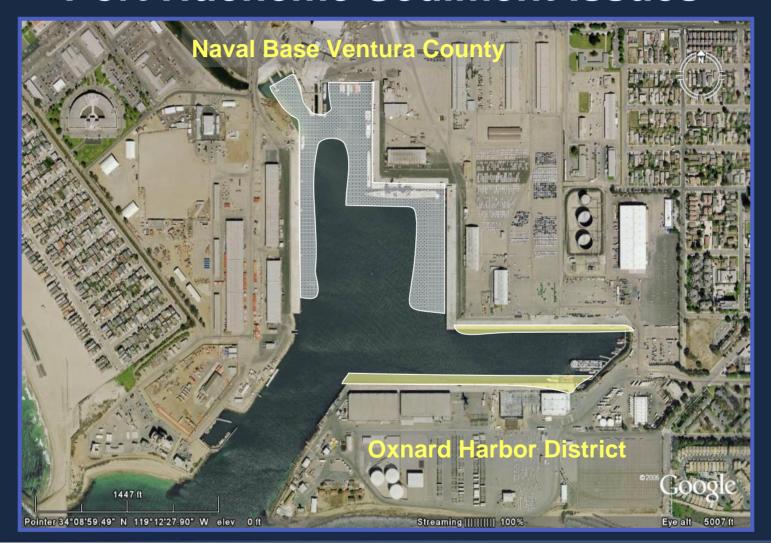


Port Hueneme Sediment Issues



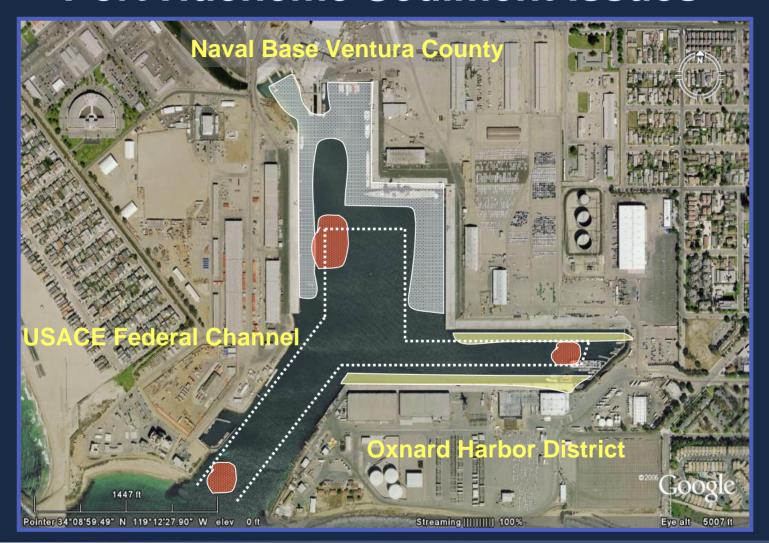


Port Hueneme Sediment Issues





Port Hueneme Sediment Issues





Sediment Contamination

- Total ~250,000 cubic meters
- Approximately 60% from berths/40% from Federal Channel
- COCs include PAHs, PCBs, DDT, TBT
- Mostly fine sands, silts and clays low organic carbon



Management Alternatives

- Landfill Disposal
- On-site near shore Confined Disposal Facility (CDF)
- Port fill site at POLA or POLB
- Contained Aquatic Disposal (CAD)



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Rationale for CAD Selection

- Provides on-site solution
- Not tied to other development or funding
- Environmentally protective
- Opportunities for beach nourishment
- Allows for Harbor deepening to advance
- Restores 100% use of Naval/OHD wharves
- Provides total solution for all 3 projects
- Shared resources = cost effective



Port Hueneme CAD Solution













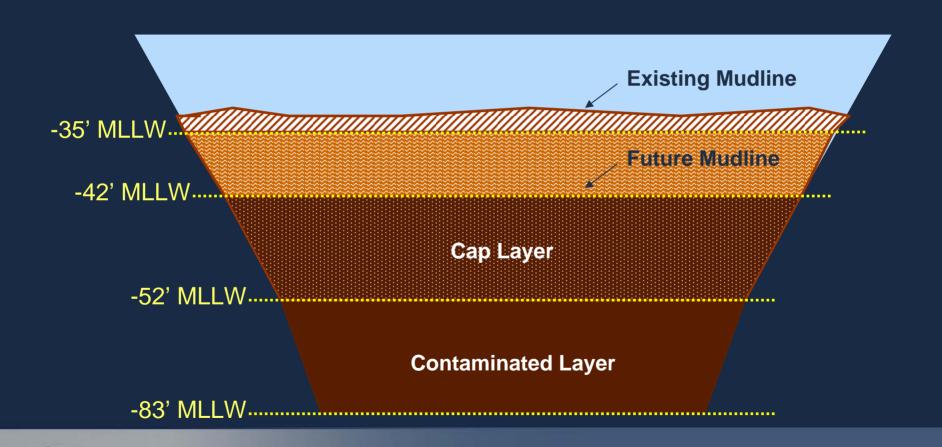








Proposed CAD Cross-Section





Funding Strategy

Challenges

- Raising funds (total project ~ \$15 million)
- Coordinating schedules
- Contractor negotiations and scheduling

Opportunities

- All participants had some funds allocated for reduced individual projects
- Staff committed from the top down
- Significant project momentum



Cost Sharing Approach

- Break project into segments (e.g., CAD excavation, Navy wharves, cap armor placement, etc)
- Estimate costs associated with each segment
- Assign segments to participants based on either ownership or limitations in authority



Cost Sharing Approach Cont.

- Fine tune cost segments to accommodate secondary cost sharing strategies and funding schedules
 - Can include financial balancing to make project more equitable among all partners
 - Recognize previous agreements
 - Account for contaminated sediment ownership allocation



Project Feature -	Responsibility		
	USACE	U.S.Navy	OHD
Project Development			
- CEQA/NEPA Permitting		X	X
- Engineering Design		X	X
Contracting			
- Contract Management	Χ		
Construction			
- Equipment Mobilization	X		
- CAD Cell Excavation		X	X
- Dredging Navy Wharves		X	
- Dredging OHD Wharves			X
- Dredging "Hotspots" within O&M Channel	X		
- Capping	X		
- Placing Rock Armor		X	X
- Water Quality Monitoring	X	X	X
- Sediment Confirmational Sampling	X	X	X
- Construction Management	X	X	X
Post-Construction Activities			
- Long-Term Monitoring		X	X



Contracting Approach

- USACE has existing contract with Manson Construction for O&M dredging in Port Hueneme and Channel Islands Harbor
- Modification issued for additional work
- OHD/USACE Cost Sharing Agreement
- USACE/Navy Cost Sharing Agreement already in place for dredging



Contracting Approach Cont.

- OHD/Navy Agreement for CAD construction and long-term monitoring/liability
- All funds transferred to USACE for contracting and management



Project Schedule

- Conceptual design for project completed in April 2007
- Design and permitting completed in August 2008
- Construction will begin in December 2008
- Estimated completion is June 2009



Lessons Learned

- Obtaining senior management approval early on is key
- "Pre-negotiate" the permit conditions during the design phase of the project
- Develop an accurate construction cost estimate early in the process
- Involve the lawyers sooner rather than later in the process



Questions?

