

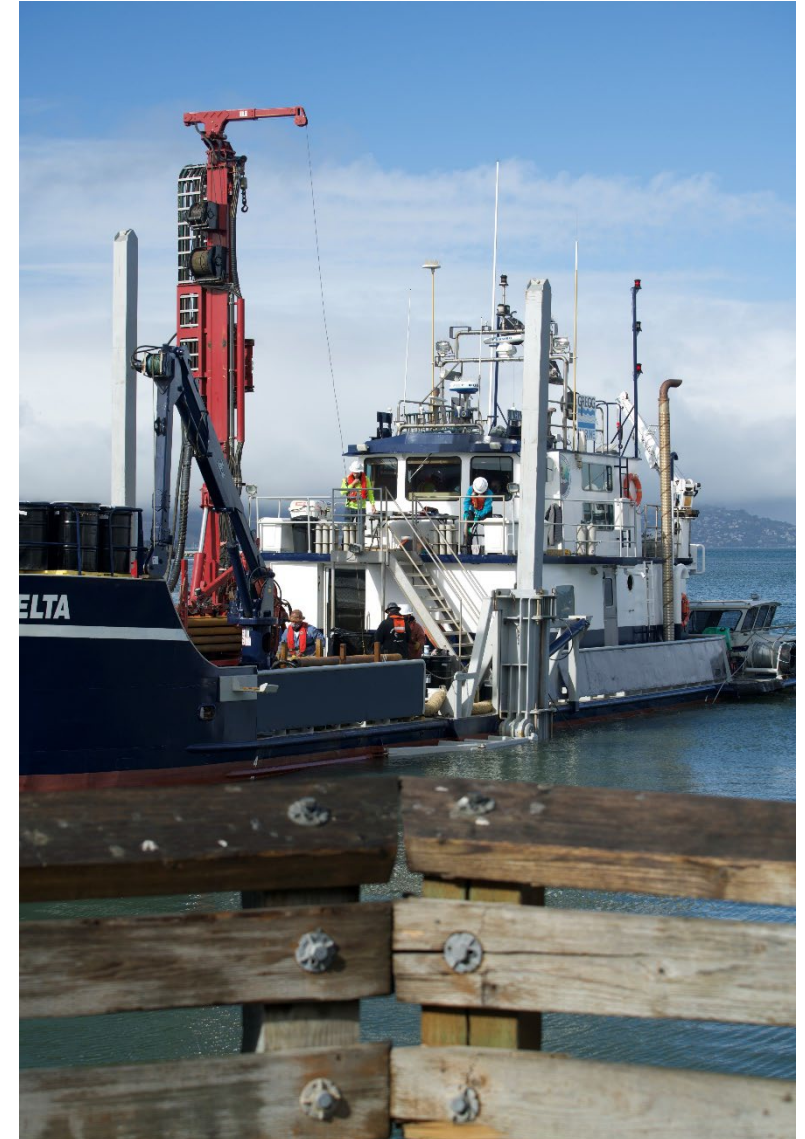
# Piers 39 to 43½ – Sediment Remediation Project BCDC Commission Hearing

November 7, 2024



# Meeting Objective

- 1 Introductions
- 2 Remediation Regulatory History
- 3 Project Purpose
- 4 Project Overview
- 5 Environmental Protections
- 6 Public Outreach & Engagement
- 7 Discussion



# Remediation Regulatory History – Water Board Ordered Remediation

- 2017 – 2020: Site Investigations
- January 2020: Investigation Report
- September 2021: Approved Remediation Plan
- January 2022: CEQA Initial Study-Mitigated Negative Declaration Adopted
- February 2022: Water Board Order issued
- September 2024: CEQA Amendment
- September 2024: 401 Certification Issued



# Project Purpose



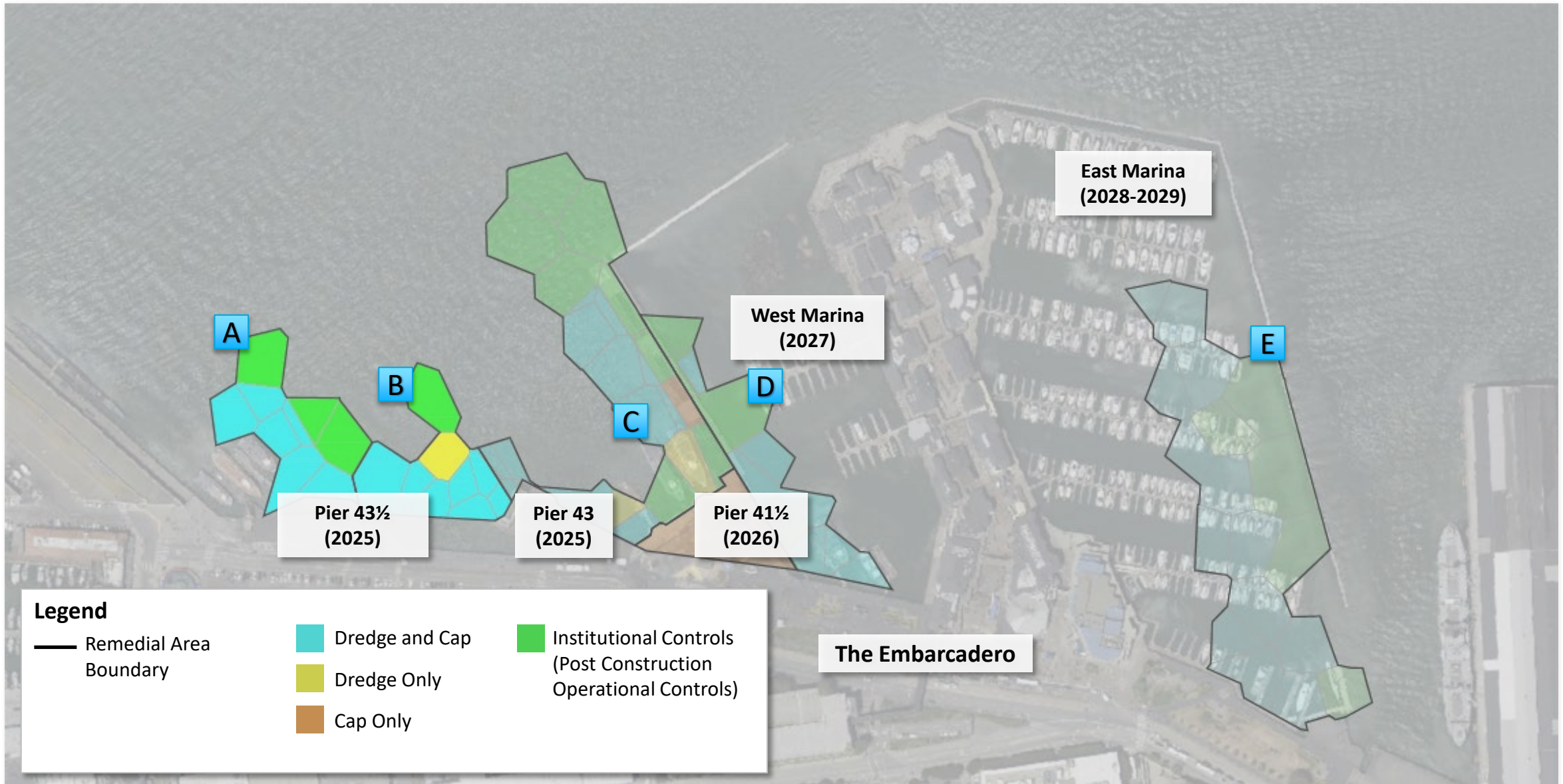
## Objective:

Prevent toxicity to benthic invertebrates, birds, and humans who may be exposed to PAHs by consuming biota with PAH concentrations bioaccumulated in prey tissue via direct contact with sediments and associated pore water or through the aquatic food web.

## **Responsible Parties:**

- Pacific Gas & Electric Company: Responsible for Manufactured Gas Plant residues
- Port of San Francisco: Property owner

# Project Overview: Offshore Remedial Response Areas



# Project Overview: Project Sequencing

- Site Preparation
- Dredging and Off-Site Sediment Handling
- Sediment Pin Pile
- Cap & Armoring
- Demobilization



**Project oversight by the Regional Water Board and Port staff will include site inspections to ensure compliance.**

# 2025 - Site Preparation



- Tenant Temporary Relocation
- Turbidity Curtain Installation
- Coast Guard Navigational Aides
- Public Notifications

# Dredging & Sediment Handling



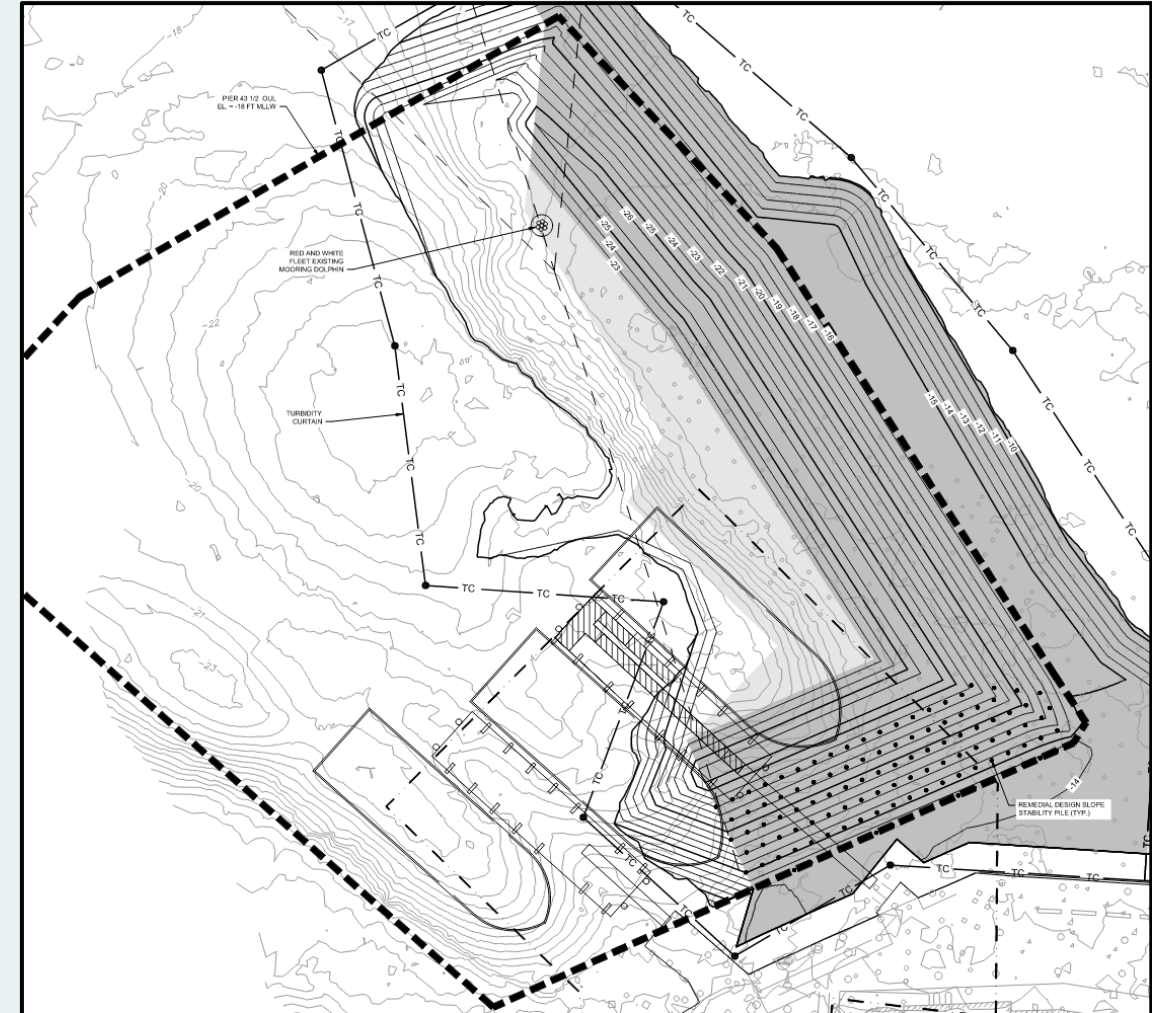
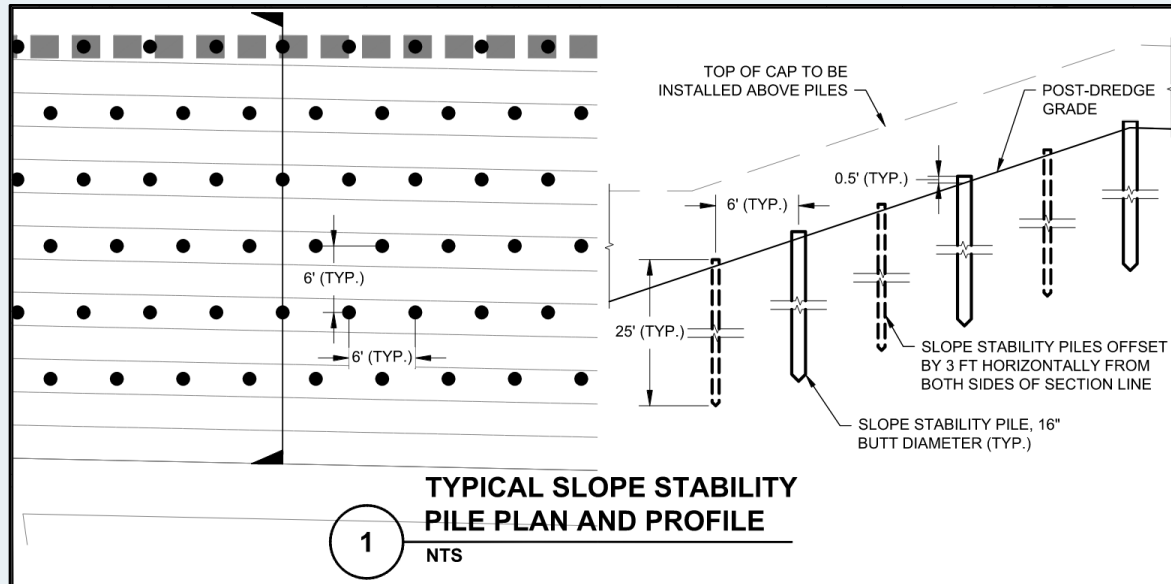
Removal of contaminated sediment: 102,900 cubic yards across all areas.

Transport to Montezuma material handling facility for preparation for disposal at landfill.

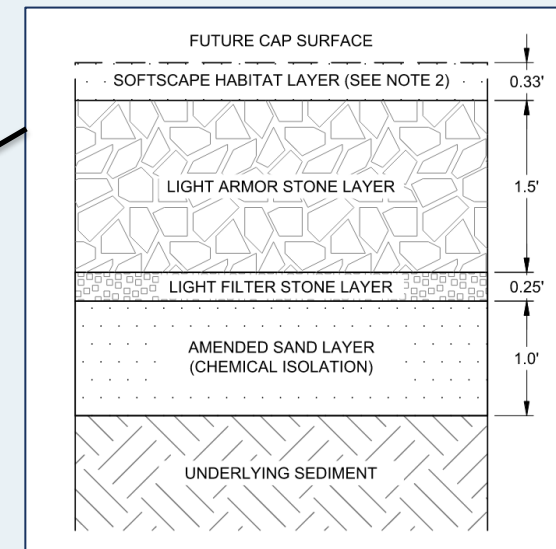
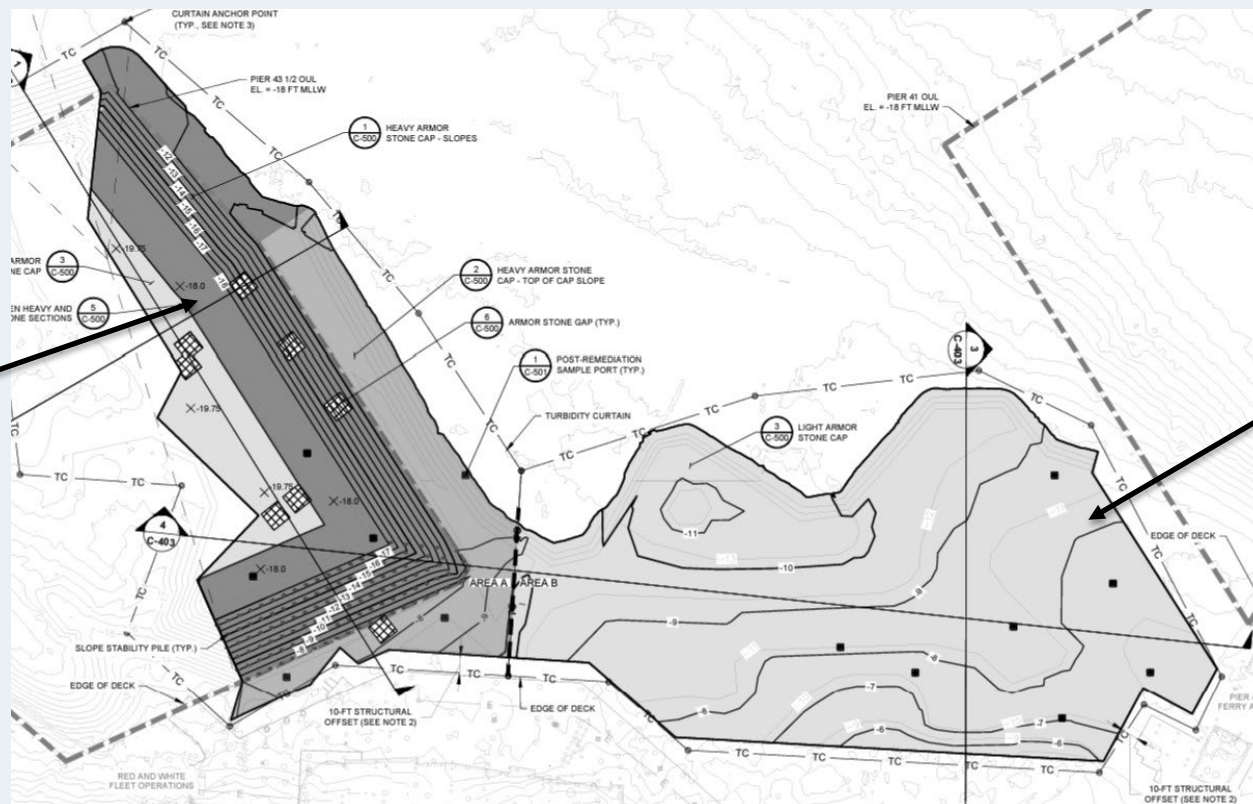
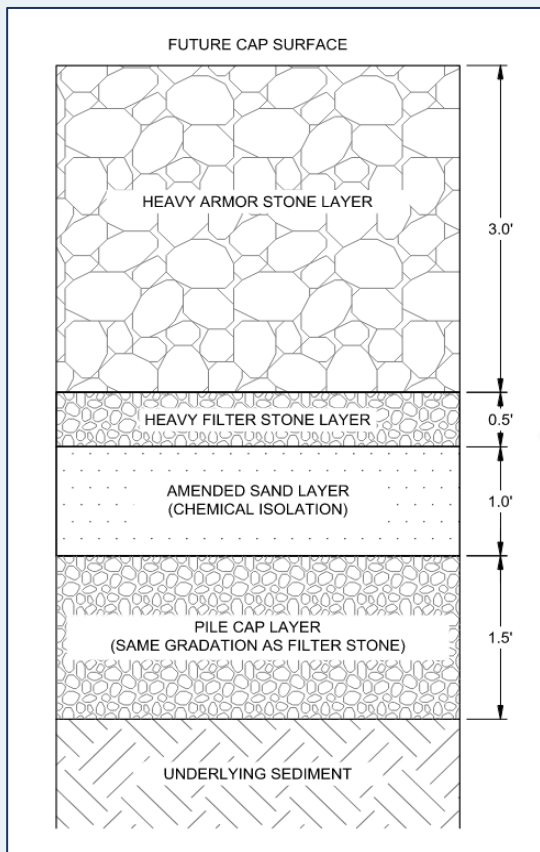


# 2025 - Sediment Pin Pile Installation

- Total of 1,600 piles
- 16-inch diameter wood piles; 25 feet long
- 6-inch overlap with 1.5-foot-thick pile cap



# 2025 - Cap Installation Areas A & B



# Bay Fill and Mitigation

Project Element	Volume (cy)
Debris Removal	24,700
<b>Total Fill Removed</b>	<b>24,700</b>
Sediment Pin Piles	2,020
Cap: Chemical Isolation	26,400
Cap: Armoring	47,100
Erosion Protection	3,450
Softscape Habitat	2,200
<b>Total Fill Placed</b>	<b>81,170</b>
<b>Net Fill</b>	<b>56,470</b>

Mitigation identified in project permits:

- Cap design to incorporate diverse rock size to improve fish habitat
- Sand placement to promote sediment accretion and habitat

BCDC mitigation for pin pile fill (1:1)

- Remove additional surface debris adjacent to remedial response areas (proposal)

# Environmental Protections

- **Work Windows:**
  - Dredging, capping, and impact pile driving limited to June 1 to November 30 work window.
  - No in-water work December 1 through March 15 to protect Pacific herring
- **Water Quality Control:** Turbidity curtains and monitoring
- **Marine Mammal Monitoring:** NOAA approved monitoring and exclusion zones
- **Best Management Practices**



# Public Access

- No reduction in the current public use of the area
- Once completed, project prolong the life of structures within Pier 39 East Marina
- Public access improvement, such as water trail signage, to be implemented prior to the last remedial area, upon Commission approval



## Engagement-To-Date

- Regular project briefings with:
  - Permitting agencies (2019 to present)
  - Port advisory committees
  - Port Commission
- Outreach and public comment on Feasibility Study/Remedial Action Plan
- CEQA IS/MND Public Comment
- 30+ working group meetings with Port and tenants
- Regulatory Public Notices
- BCDC Engineering Criteria Review Board – no changes due to recommendations required



Notification Area

## Coordination & Communication:

- Informational kiosk at site
- Project signage
- Coordination with Marine Mammal Center
- In-person and virtual briefings at key milestones
- Email updates to Port tenants and project updates posted to Port website
- Rapid response to public inquiries to PG&E dedicated phonenumber or via email



## Issued Permits:

- U.S. Fish and Wildlife Service Biological Opinion
- National Marine Fisheries Service Biological Opinion
- Marine Mammal Incidental Harassment Authorization
- California Department of Fish and Wildlife Incidental Take Permit
- Regional Water Board 401 Certification
- BCDC (Pending)
- U.S. Army Corps Individual Permit (Pending)



## Important Information

- ✓ A long-term beneficial project
- ✓ No loss of Bay waters, more material removed than placed
- ✓ No marina infrastructure changes other than temporary relocations
- ✓ Project reviewed by BCDC Engineering Criteria Review Board
- ✓ Future BCDC engagement expected as Area C, D and E design advance, to occur through updated plan reviews and/or permit amendments as needed

Thank you  
Discussion/Q&A

