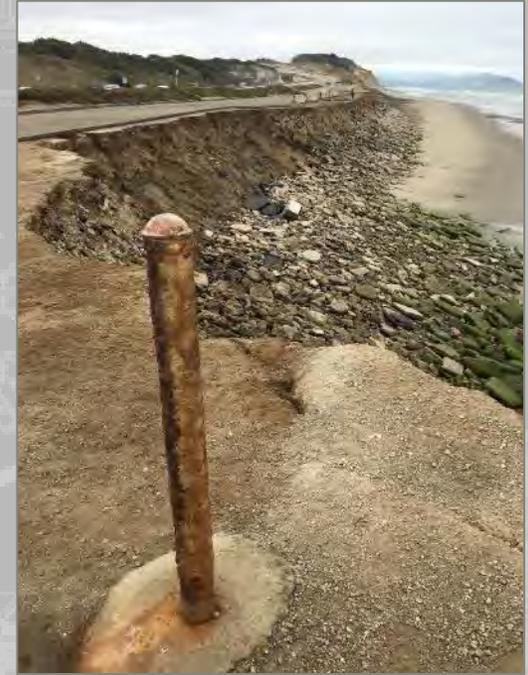


OCEAN BEACH PUMP ASHORE PROJECT

SAFETY TRAINING VIDEO

Heather Schlosser
USACE – South Pacific Division
Navigation and Coastal Program Manager

WEDA – Pacific Chapter
28 October 2021



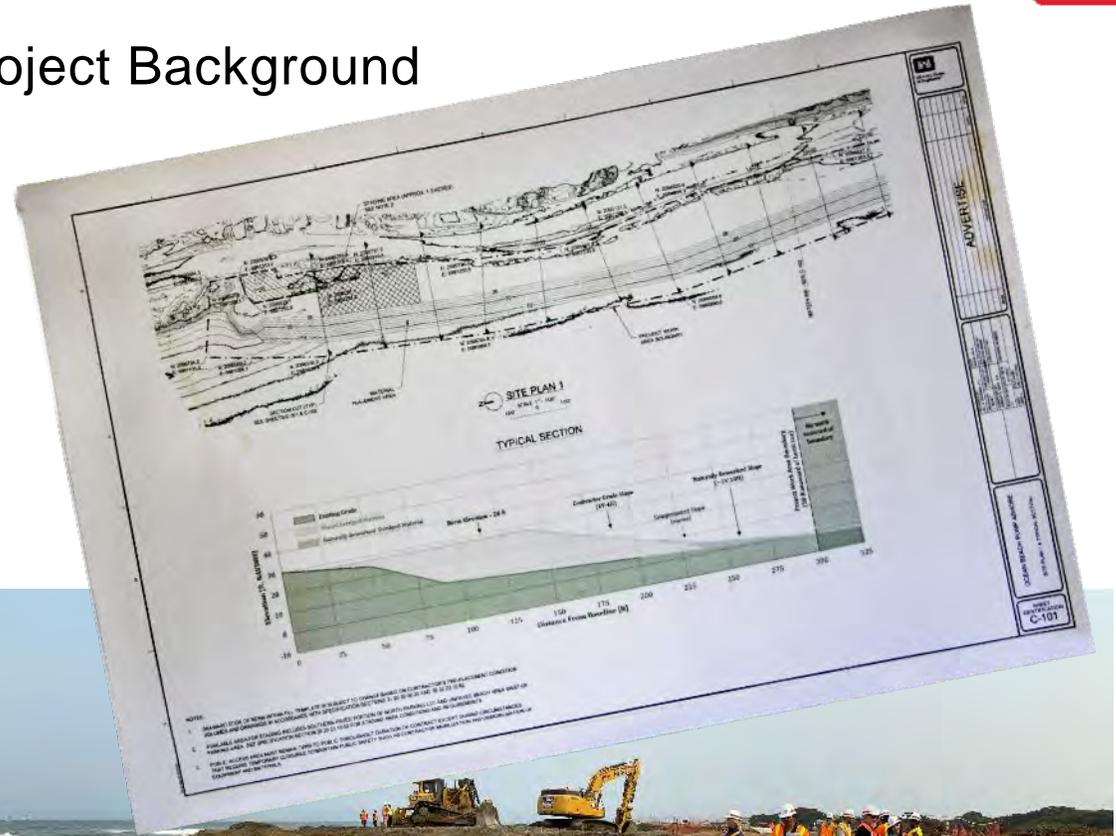
US Army Corps
of Engineers®



AGENDA



- ❖ Background, Purpose of Training and Project Background
- ❖ Overall Project Safety
- ❖ Safety on the Ground
 - Public Safety and Signage
 - Personnel Safety
 - Project Components/Equipment
 - Operations





BACKGROUND



LESSONS LEARNED

- ❖ See something say something
- ❖ Inform and educate the Public of hazards associated with the dredging project
- ❖ Train field personnel to identify hazards during operation and incorporate in the Accident Prevention Plan (APP)
- ❖ Confirm Contractor understands and follows safety requirements
- ❖ Plans and Specifications
 - Environmental and Safety should be included in drafting and reviewing
 - Update specifications to clarify resubmittal of key preconstruction submittal for each cycle

IMPROVEMENTS

- ❖ Increase field personnel and safety on-site attendance
- ❖ Updated APP to include new measures in Public Safety Plan based on recent lesson learned
 - ATVs to spot heavy equipment along the beach
 - Delineate a driving corridor for heavy equipment





PURPOSE OF TRAINING



Short Term: Educational Site Visits

- Issue: Need to quickly bring a wide range of project team members up to speed on standard safety procedures for the landside portion of a dredging/beach nourishment job.
- Action: Ocean Beach nourishment job gave an excellent opportunity for an educational site visit to showcase the safety measures that are in-place. **AUGUST 2021**

Medium Term: Develop a training task force with CDMCS (Council for Dredging and Marine Construction Safety)

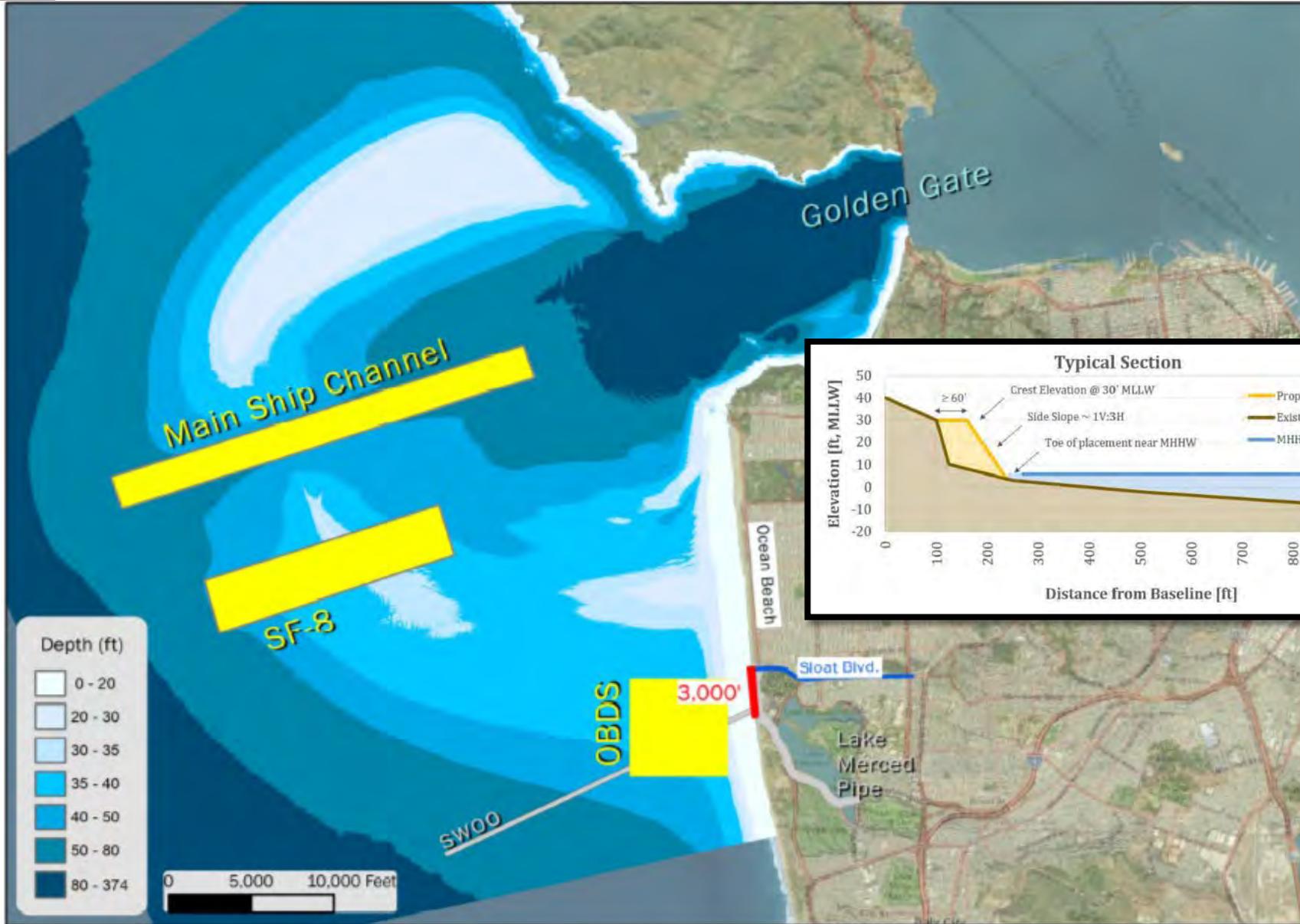
- Issue: All team members working on a dredging/beach nourishment job need to have additional training that may not be available in current industry or USACE training courses.
- Action: Partnering with industry, through CDMCS, to identify training gaps and develop a solution has started. San Francisco District to produce video focused on land-side safety features of a beach project (**Spring 2022**)

Long Term: Develop new module for PROSPECT course (Dredging Fundamentals)

- Issue: Formal training for landside operations is not sufficient.
- Action: Will work on adding additional content to Dredging Fundamentals course.



PROJECT BACKGROUND





OVERALL PROJECT SAFETY



Public Safety and Signage

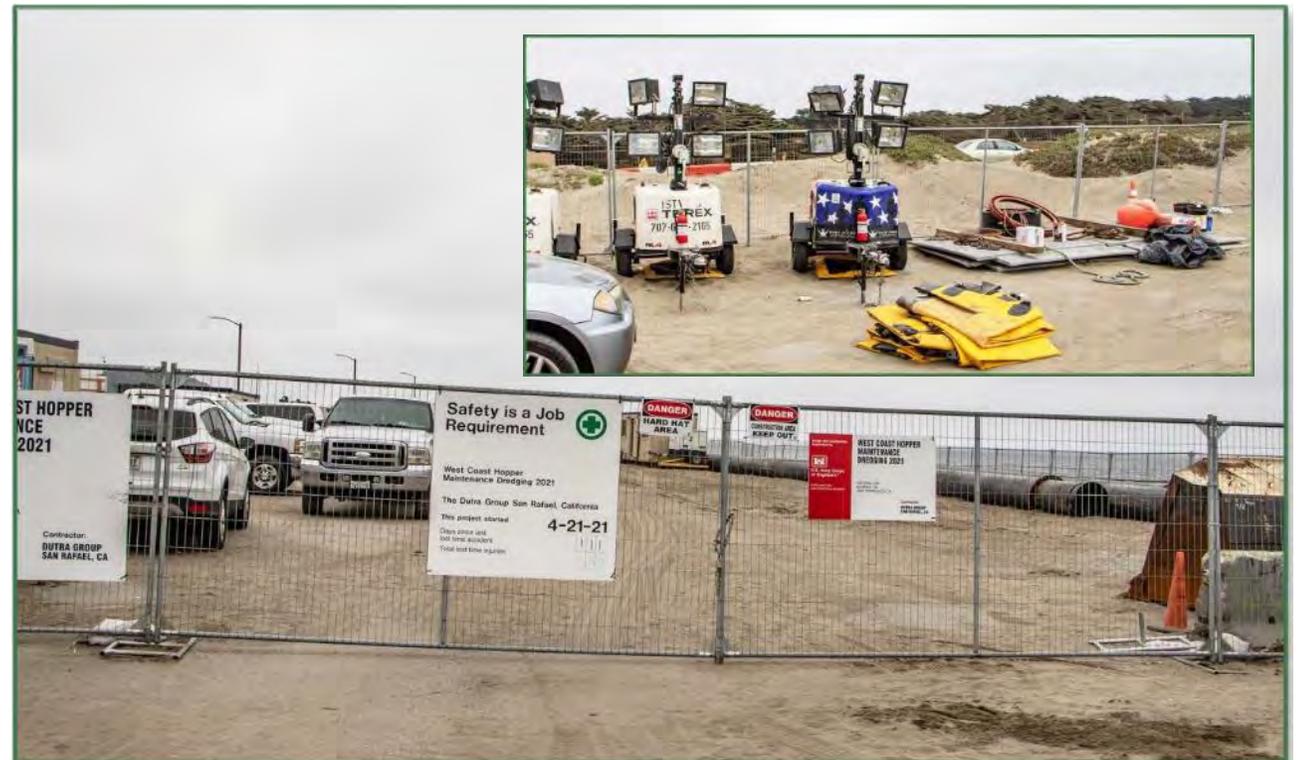
- Work site project signs
- Any safety barriers to keep onlookers at a safe distance

Personnel Safety

- Protection for structures like outfall pipes/groins/piers/etc. when they are working in those areas.
- “buddy system” – two people on a single task.
- PPE
- Radios used to communicate in the work area

Project Components/Equipment

- Sand containment/longitudinal control dikes/etc.
- Pipe Discharge area
- Beach construction lighting system
- Dozers and shaping equipment





PUBLIC SAFETY AND SIGNAGE



- ❑ Exclusion of public from staging/work area
- ❑ Active public safety patrols
- ❑ Equipment escort outside of fenced area

Beach & Area Closures

Ocean Beach Nourishment Project

July 26 - September 30, 2021

As part of the San Francisco Public Utilities Commission's (SFPUC) Ocean Beach Climate Change Adaption Project short-term improvements phase, the U.S. Army Corps of Engineers will build a sand berm in front of 3,000 feet of bluff south of Sloat Boulevard using dredged sand. The goal is to protect the Great Highway and nearby wastewater infrastructure maintained by the SFPUC.




Sand will be piped onshore with a hopper dredge, where heavy equipment will spread and shape the material into the bluff profile. Construction crews will be working 24/7 and sand placement is noisy work. Residents and businesses along the southern end of the Great Highway may experience noise during project operation.




During construction, beach and dune access will be restricted to protect public safety. In addition, a portion of the main parking lot at Sloat Boulevard and the Great Highway will be closed for project staging.

For the most current information, please visit:

- sp.usace.army.mil/Missions/Projects
- sp.usace.army.mil/Programs/Ocean-Beach/
- sfpub.org/oceanbeach

Or call: (415) 470-6273

In the event of an emergency, call 911 or park Dispatch at (415) 661-6666



Ocean Beach Sand Placement South of Sloat Boulevard: 7/26/21 - 9/30/21



To protect the eroding coastal bluff south of Sloat Boulevard, sand from the San Francisco Main Ship Channel will be pumped onto South Ocean Beach from a dredge anchored several thousand feet offshore. The sand will then be shaped into a berm by earthmoving equipment on the beach. Except near bank swallow nests, the berm will be the height of the bluff and extend 3,000 feet south from Sloat Boulevard. Dredging the channel takes place annually, removing about 350,000 cubic yards of sand. Of that volume, about 250,000 cubic yards will be used to build the berm. The rest will be placed in the nearshore off south Ocean Beach.



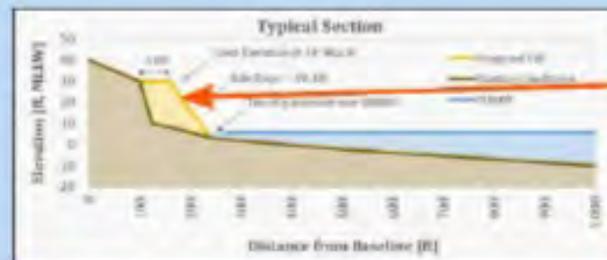
Wave caused bluff failure South of Sloat Boulevard



Regional map showing San Francisco Bay, project area (red), Main Ship Channel, and nearshore placement sites



Dutra Group dredge Stuyvesant anchored with the pump-ashore pipe attached



Pump-ashore pipe being moved on beach



Slurry of sand being pumped onto the beach and moved to the berm

To ensure the safety of visitors and the construction team, the work area will be closed to the public during construction

In the event of an emergency, call 911 or Park Dispatch at 415-561-5656



For more information, use the red QR code to access the San Francisco District webpage



PUBLIC SAFETY AND SIGNAGE





PUBLIC SAFETY AND SIGNAGE



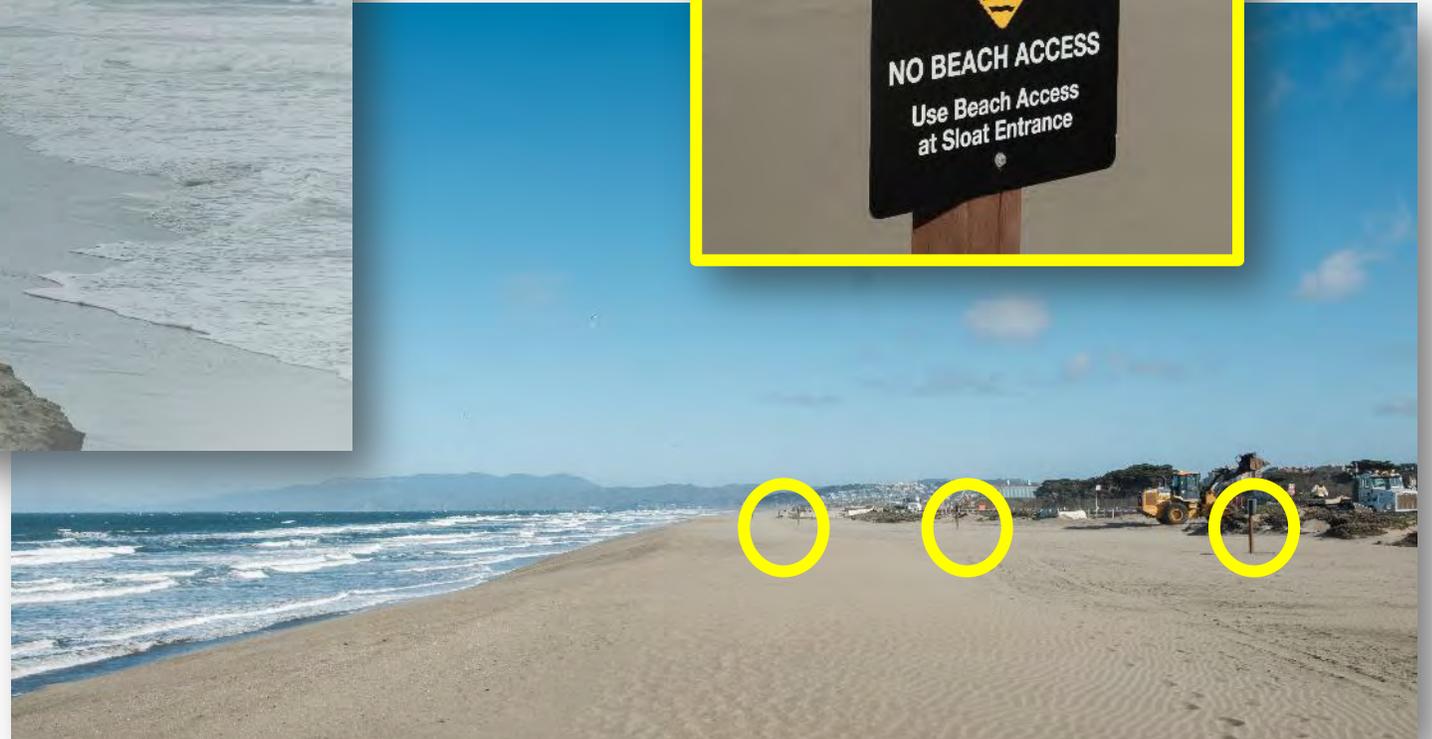


PUBLIC SAFETY AND SIGNAGE





PUBLIC SAFETY AND SIGNAGE





PERSONNEL SAFETY





PERSONNEL SAFETY





PROJECT COMPONENTS/EQUIPMENT





PROJECT COMPONENTS/EQUIPMENT





PROJECT COMPONENTS/EQUIPMENT





PROJECT COMPONENTS/EQUIPMENT





OPERATIONS





OPERATIONS

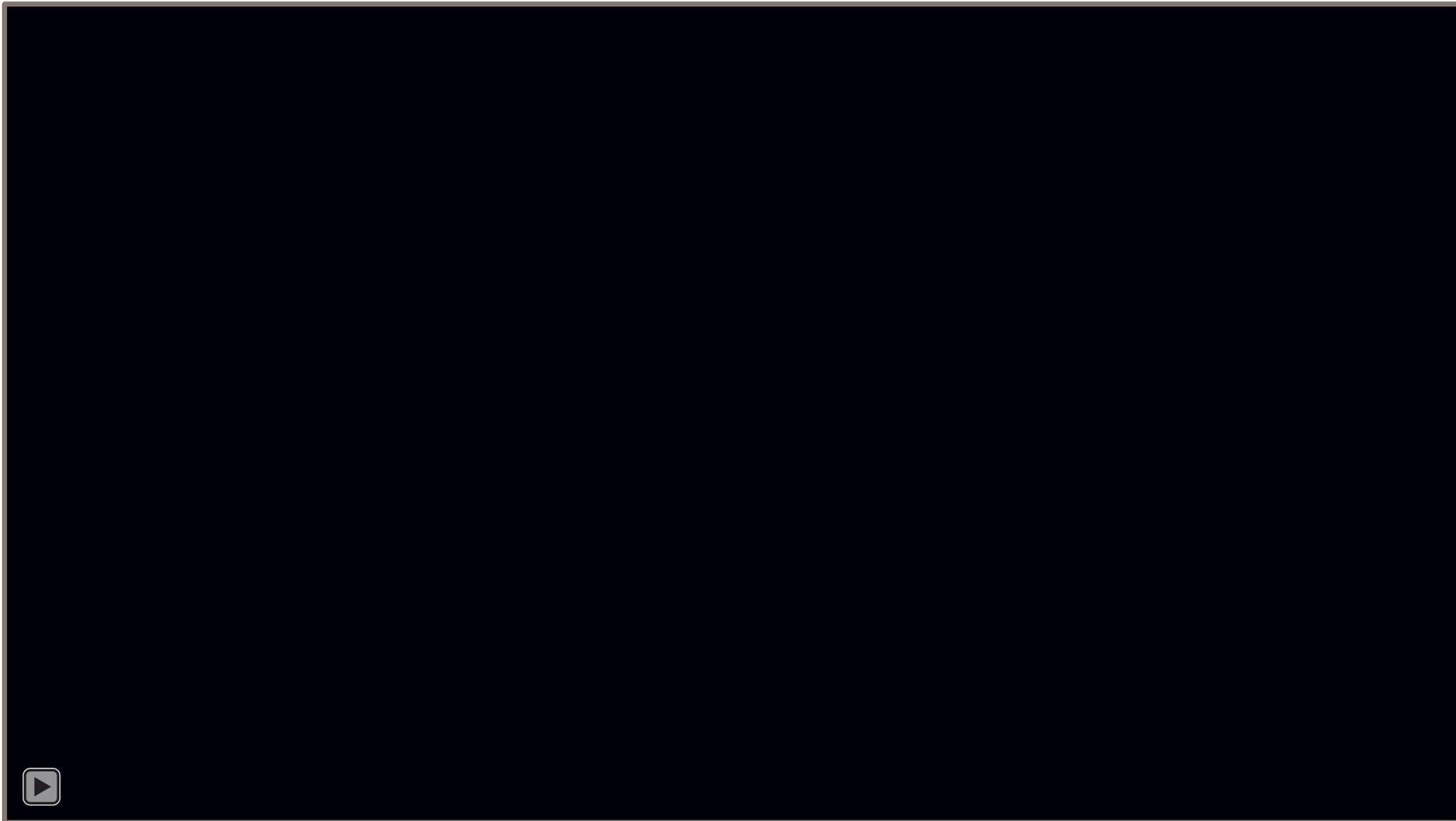


Beach rebuilding and shaping





OPERATIONS





PROGRESS TO THE FINISH



Above: Completed Beach Project
Left: Beginning beach rebuilding



QUESTIONS?

CONTACT:

Heather Schlosser

USACE – South Pacific Division

Navigation and Coastal Program Manager

Heather.R.Schlosser@usace.army.mil

213-453-3076

