



# **SAND MINING OVERVIEW**

BCDC WORKING GROUP

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# **PRESENTATION OVERVIEW**

## ***ADDRESSING THE COMMISSIONERS' QUESTIONS***

1. Where is Bay sand used? Is any Bay sand exported outside of the Bay Area?
2. What is Bay sand used for?
3. What percentage of regional construction demand for sand is met by sand mined from the Bay?
4. Are there alternative construction materials to Bay sand?

# BRIEF REVIEW - SAND MINING LOCATIONS



# BRIEF REVIEW

## SAND OFFLOAD / DISTRIBUTION LOCATIONS

- Once mining is completed, the barge delivers the sand to a marine terminal for offloading.
- Most offloading and sand distribution sites are typically small areas and have limited capability to stockpile or store sand for an extended period.

Sand mining is generally conducted on a just-in-time basis in response to market demand.



# WHERE IS BAY SAND USED (E.G., WITHIN 9 BAY AREA COUNTIES)? IS ANY BAY SAND EXPORTED OUTSIDE THE BAY AREA?



- Bay sand is used in all nine Bay Area Counties.
- Central Bay sand is used in San Francisco, San Mateo, Santa Clara, Alameda, and Contra Costa counties.
- Suisun Bay sand is used mainly in Marin, Sonoma, Napa, and Solano counties.
- No Bay sand is exported outside of the Bay Area

## WHAT IS BAY SAND USED FOR?



***Bay sand is a local resource used in local projects.***

***Bay sand mining obtains commercial-grade sand for making concrete, asphalt, and is used in general construction for public infrastructure and private development.***

***Sand is also used for local wetland and beach restoration projects, to counter sea level rise, wildfire damage response, and other public applications.***

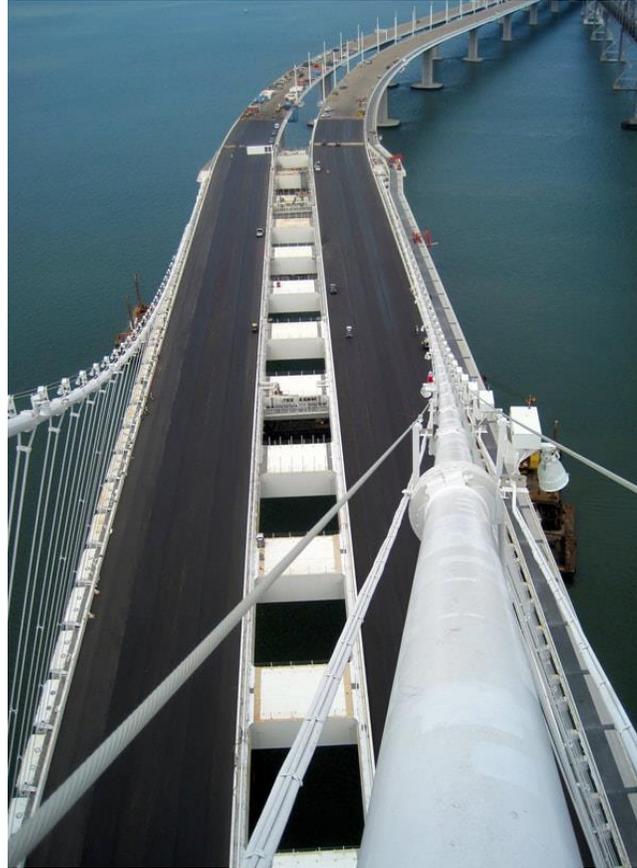
# WHAT IS BAY SAND USED FOR?

## *CURRENT AND FUTURE USES*



**Concrete**

988 Harrison Street, SoMa, San Francisco



**Asphalt**

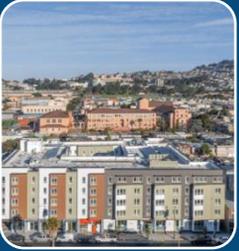
Eastern span of the San Francisco-Oakland Bay Bridge



**Shoreline protection / Sea Level Rise**  
Ocean Beach Climate Change Adaptation Project

# LOCAL PROJECTS USING SAND FROM BAY LEASES

## Affordable Housing Development



- 730 Stanyan St Haight-Ashbury
- Treasure Island Sub-Phase 1B, 1C & 1E Street Improvements
- Midway Village
- 4840 Mission Street
- Cadence Phase 2
- Kelsey Civic Center

## Mixed Use Development



- Treasure Island Block C3.4
- Mission & Van Ness Avenue
- 580 Dubuque Avenue
- 555 Bryant Street SOMA
- 30 Van Ness Avenue

## Commercial Development



- Chase Center Sports Arena
- Salesforce Tower
- SFPUC Biosolids Digester Facility
- UCSF Block 34
- Life Science Office Building

## Infrastructure



- Chase Center
- Spot Sewer 40 WW-693
- Hawthorne Utility Undergrounding District
- Potrero Power Station
- Hunters Point Block 48 Joint Trench
- WW-698 SS Replacement No. 41
- WW-699 Spot Sewer 42
- WW-715 Spot Sewer 43
- Highway 101 widening and paving (asphalt)
- Interstate 80 resurfacing project (asphalt)

## Shoreline Protection, Restoration



- Ocean Beach Climate Adaptation Project
- Herons Head Park Shoreline Restoration
- Coyote Point Eastern Promenade
- Hunters Point Naval Shipyard Cleanup Parcel E
- Hunters Point Naval Shipyard Cleanup Parcel (19-209)
- Hunters Point Block 52



## WHAT PERCENTAGE OF REGIONAL CONSTRUCTION DEMAND FOR SAND IS MET BY SAND MINED FROM THE BAY?

About 30% of the market demand for natural sand in the nine Bay Area counties is supplied by Bay sand.

# ARE THERE ALTERNATIVE CONSTRUCTION MATERIALS?

*NOT ALL SAND IS CREATED EQUAL!*



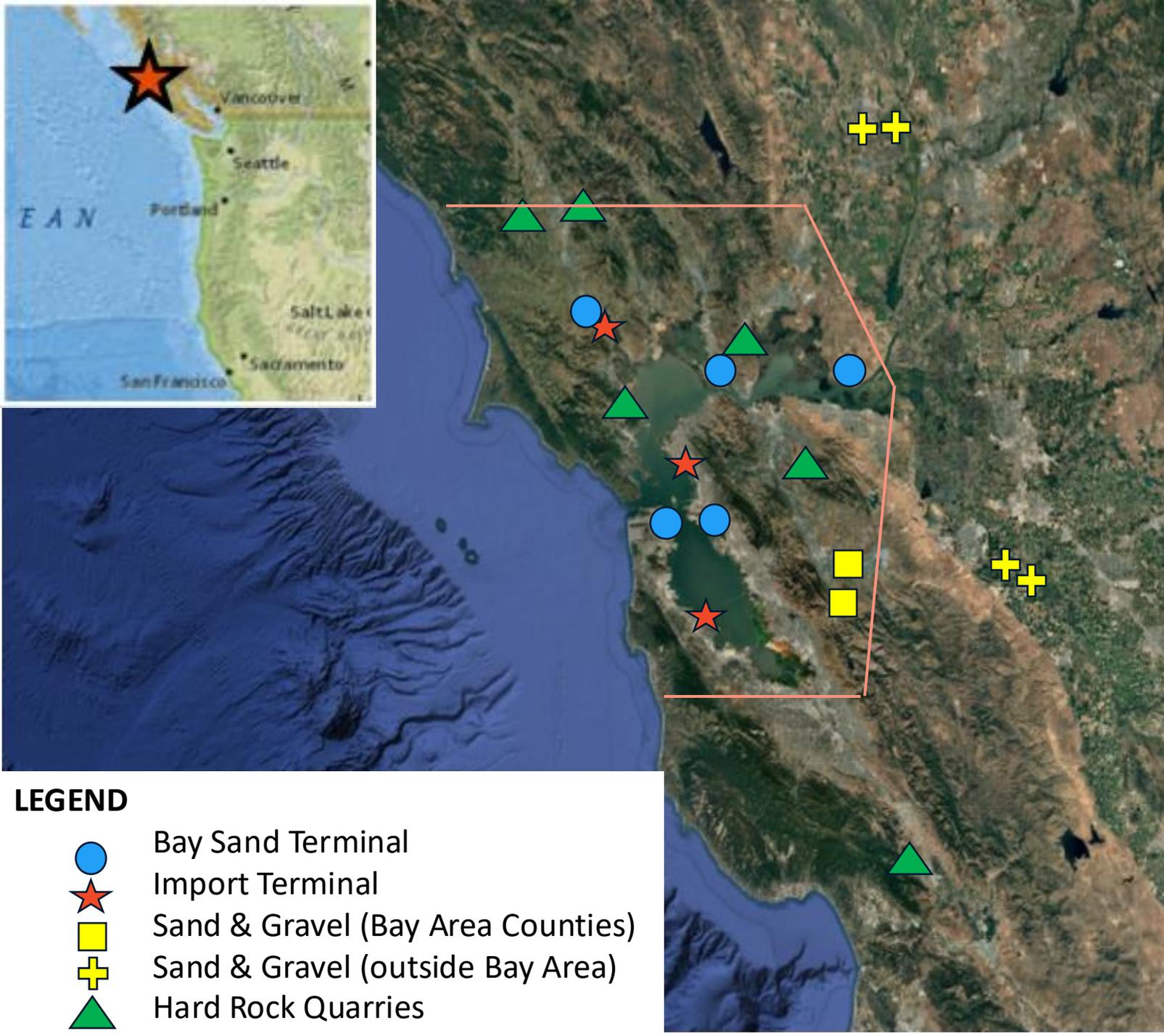
# ARE THERE ALTERNATIVE CONSTRUCTION MATERIALS (RECYCLED MATERIALS)?

## Recycled Concrete



## Recycled Asphalt





**ARE THERE ALTERNATIVE  
CONSTRUCTION MATERIALS  
(LAND-BASED QUARRIES,  
IMPORTS)?**

**LEGEND**

-  Bay Sand Terminal
-  Import Terminal
-  Sand & Gravel (Bay Area Counties)
-  Sand & Gravel (outside Bay Area)
-  Hard Rock Quarries

# EMERGENCY PREPAREDNESS



Workers survey damage to Interstate 880 in Oakland, Calif., on Oct. 19, 1989, after it collapsed during the Loma Prieta earthquake two days

**QUESTIONS?**