Harbor Channel Dredging

Why do we dredge?

- Large breakwater jetty on north side of harbor entrance restricts sand transport north and south along the coastline
- Sand becomes trapped at the harbor entrance

Harbor Dredging

- Maintenance dredging performed annually prior to Memorial Day Weekend
- Dredging done to ensure safe navigation for boaters
- Project paid by Corps of Engineers and Navy
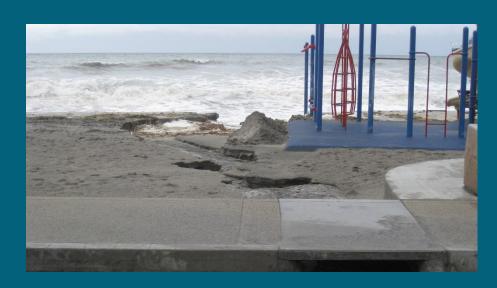- Approximately 225,000 cubic yards of sand dredged and placed on Oceanside beaches each year

Harbor Dredging

- City has an agreement with the Corps to contribute funds to the project for additional sand to be placed on the beach when available

- City last contributed to the project in 2016 when 440,000 cubic yards of sand total was dredged (City funded 80,000 cubic yards)

Shoreline Feasibility Study

The objectives of the study are to:

1. Estimate the impacts of erosion on the shoreline caused after construction of Camp Pendleton Harbor

2. Consider practices to ultimately restore sand to City beaches.

Shoreline Feasibility Study

- Study currently on hold due to lack of Federal funding
- Cost and time frame to complete study once funded is $1.82M and 31 months
- Once completed, funding needs to be identified for design and construction

Shoreline Management Options

1. Beach Nourishment (Harbor and offshore dredging)
2. Sediment/Sand Retention (Jetty, Groin, Artificial Reef)
3. Sand Bypass of Harbor Jetty
4. Managed Retreat (Allow Bluff Erosion)

➢ Options 1, 2, & 3 are very expensive

➢ Option 2 (Permanent Structures) typically not supported by California Coastal Commission

Going Forward

- Request SANDAG to perform another regional beach nourishment project similar to 2001 and 2012 projects

- Ask Corps to finish Shoreline Feasibility Study and request funding for construction

- San Luis Rey Sediment Removal Project

- Sand Compatibility Opportunistic Use Permit (SCOUP) – Look for potential sources of beach quality sand made available from development projects to deposit on local beaches