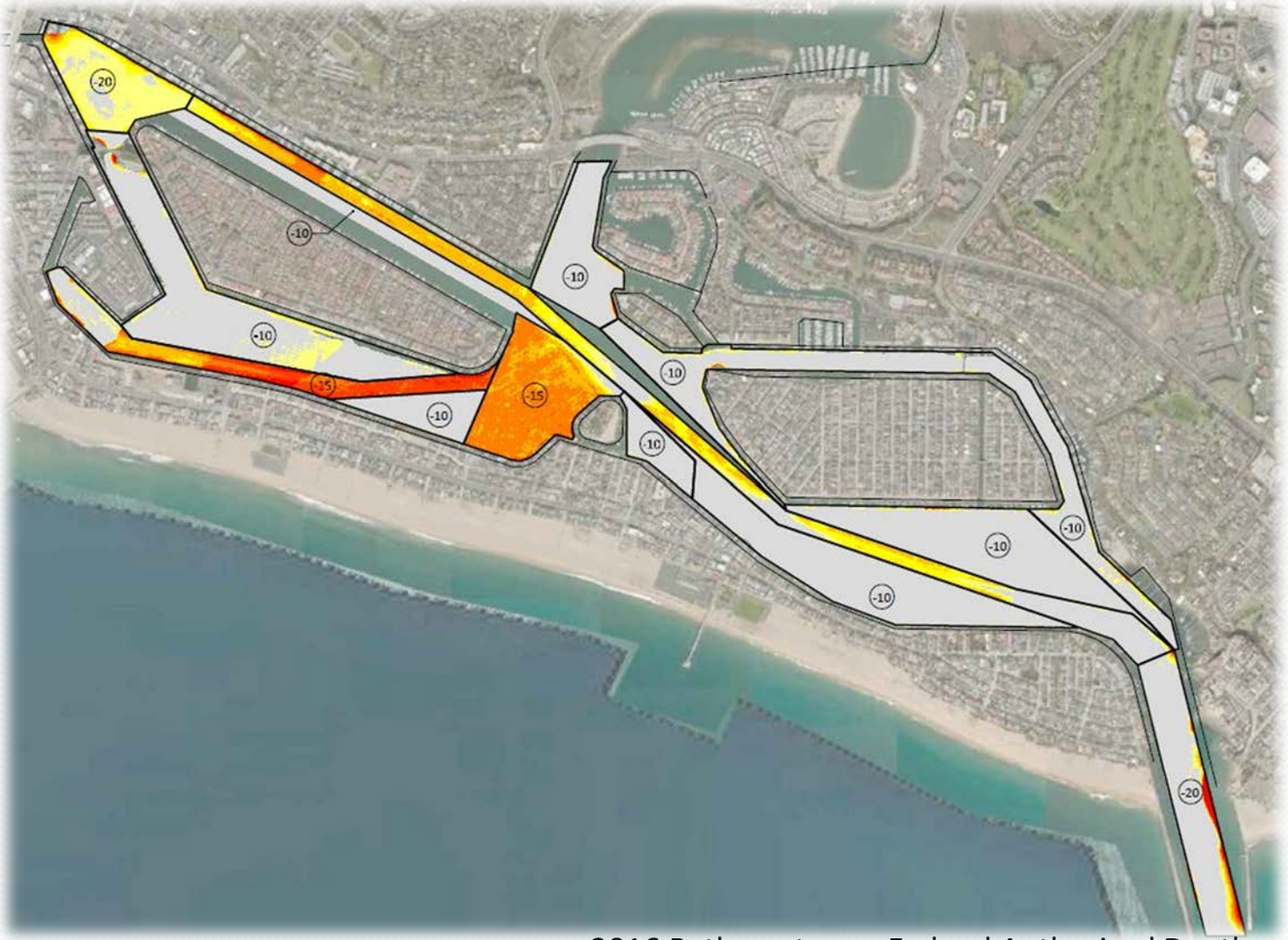
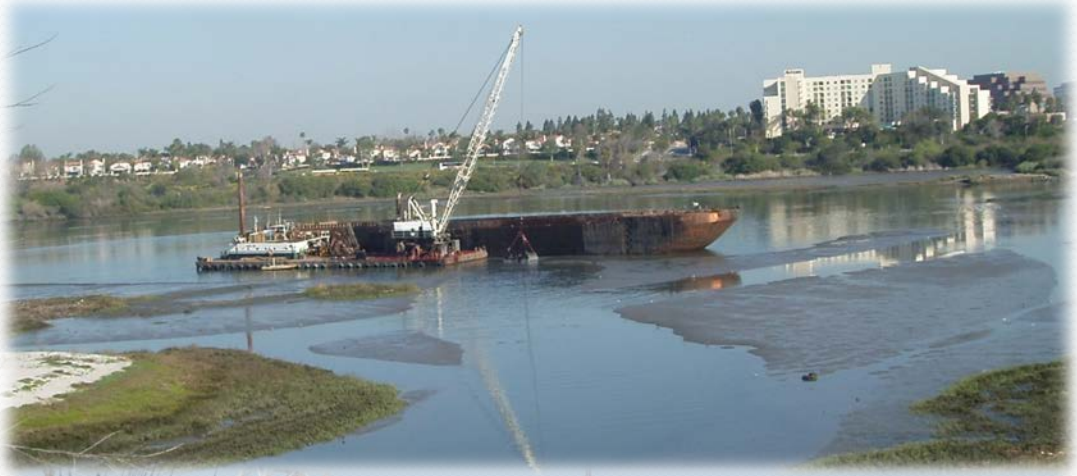
Harbor Design Depths and Dredging Needs

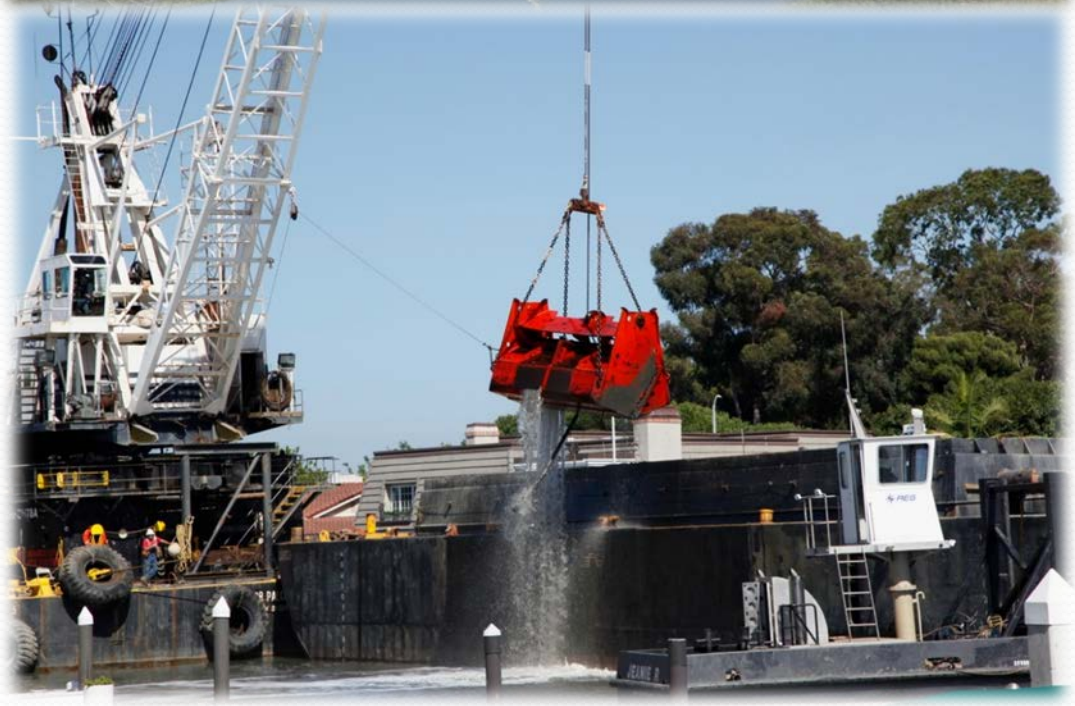
Comparison of Existing Bathymetry and Authorized Depth	
Elevation Range (ft)	**Color**
At or Below Dredge Depth	
0.0 to 1.0	
1.0 to 2.0	
2.0 to 3.0	
3.0 to 4.0	
4.0 to 5.0	
5.0 and Greater	



2016 Bathymetry vs. Federal Authorized Depth

Basic Dredging Methods



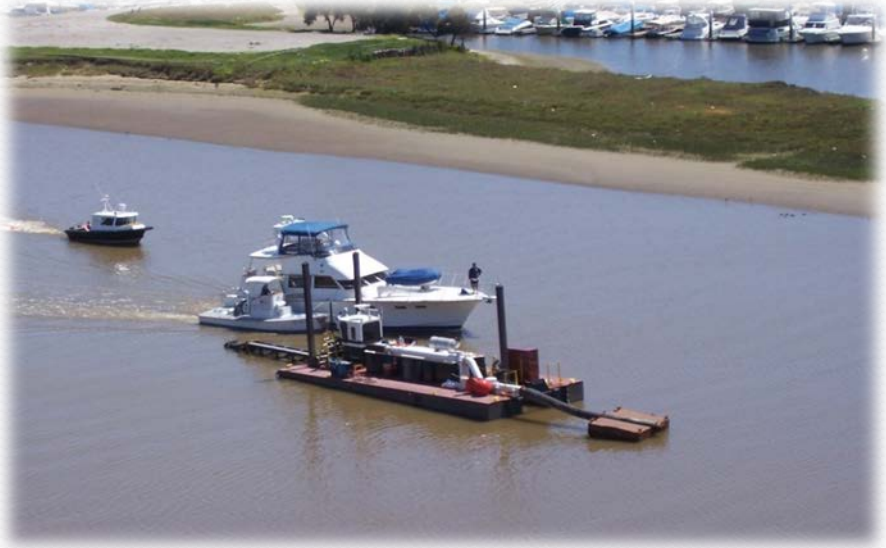


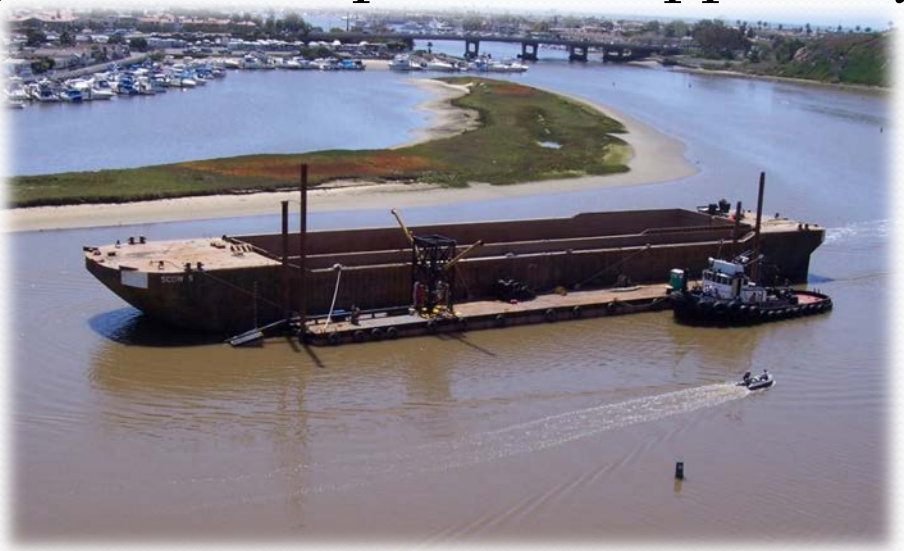
Crane with Clam Shell and Dump Scow

Basic Dredging Methods

Suction Dredge with Direct Beach Disposal Santa Cruz

Suction Dredge with Dump Scow - Upper Bay





Some Thoughts On A Game Plan

- Actively Pursue a Federal Dredging Project in Lower Harbor to remove approximately 650,000 cy Legacy Material
  - Necessary Sediment Testing is Underway
  - Staff/Council/Harbor Commission Engaging Elected Representatives, Army Corps, and Regulatory Agencies
  - Requesting $400,000 in 2019 Army Corps Budget for Design
- Work with County to set aside funds to Dredge County Tidelands
  - North and South of PCH
  - Possibly Join the Larger Project

Some Thoughts On A Game Plan

Addressing Annual Maintenance Dredging *(slips, beaches, shoals, etc.)*

? Explore Modifying RGP (Nearshore Dredging) to allow Small Quantities of Material Disposal into Channels prior to Large Project

**(provided this is agreeable with Corps & Regulatory Agencies)*

- *Permitted for Small Cost Recovery Fee*
- *Larger Dredging Project later Removes Material at Lower Bulk Rate*
- *Reduces Disposal Cost to Residents = More Attractive to Dredge*

? Consider Contracting, or Purchase/Operating Small Suction Dredge System for on-going maintenance of Public & maybe Private Areas