



Port of Long Beach



Shelly Anghera, Ph.D., Anchor QEA

James Vernon and Matt Arms, Port of Long Beach

WODCON, June 14, 2016

Deepening Project

- 3-3-3 USACE process
- 8 million cy
- -55' + 2 ft overdepth
- -73' approach
- Southwest Basin
- West Basin
- Pier J
- Main Channel
- Anchorage



Sediment Management Challenges

- Unique set of challenges from a unique environment
 - Highly urbanized
 - Heavily protected marine environment
 - Low contaminant standards
 - Global trade impacts



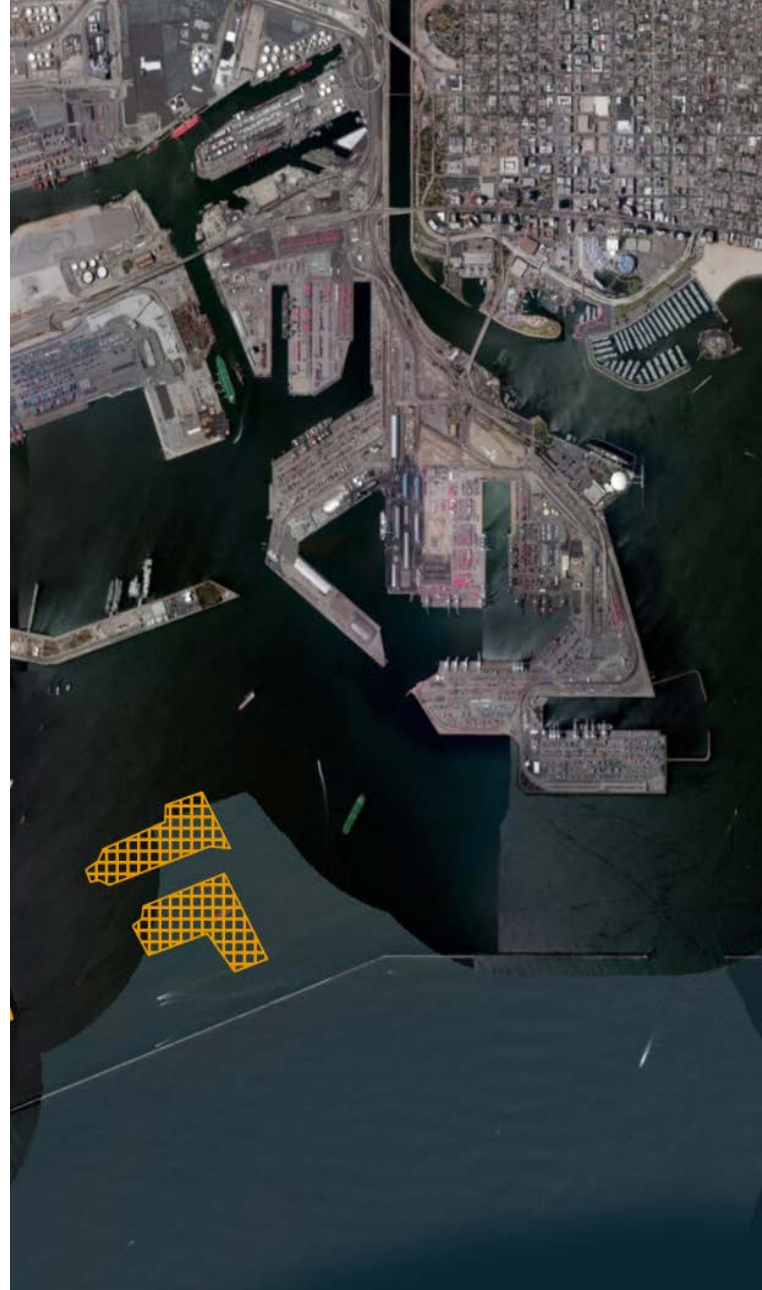
Solution: Long-term Management Planning



- Promote 100% beneficial use by aligning dredging programs with port fills and habitat improvement projects
- Maintain ocean disposal site use as a viable sediment management option if needed

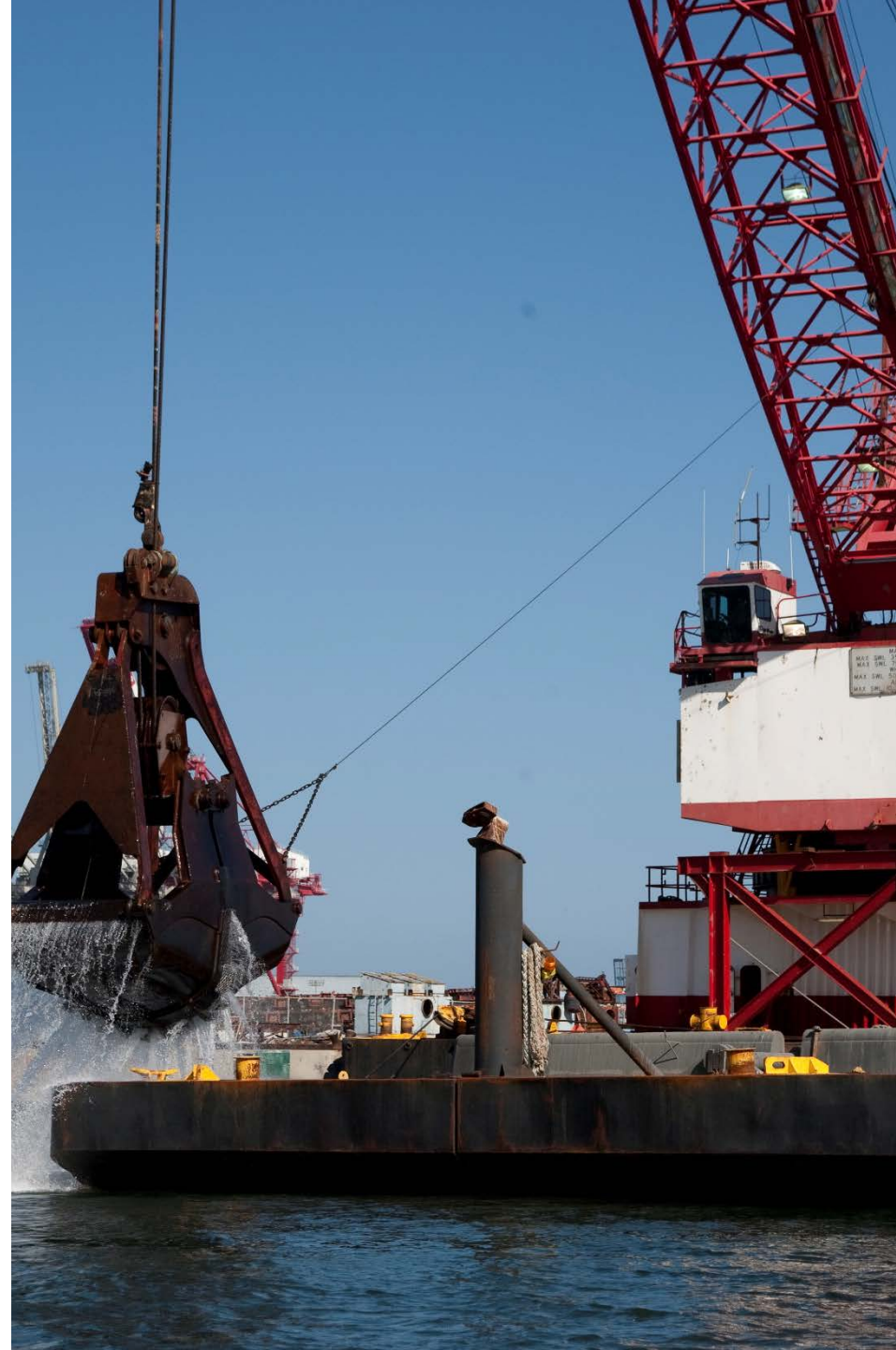
New Management Alternatives to Be Explored

- Conversion of temporary aquatic sediment storage sites to confined aquatic storage sites
- Evaluation of feasibility of new shallow water habitat enhancement areas
- Evaluation of new temporary sediment storage site areas



Unique Engineering Challenges

- Electric dredges for air quality
- Reduced competition on west coast for equipment



Lessons Learned

- Develop as many beneficial use opportunities as possible
- Work to provide flexibility of sediment management options in permits
- Provide opportunities for region to benefit from sediment management strategy



Questions

- James Vernon:
james.vernon@polb.com
- Matthew Arms:
matthew.arms@polb.com
- Shelly Anghera:
sanghera@anchorqea.com