



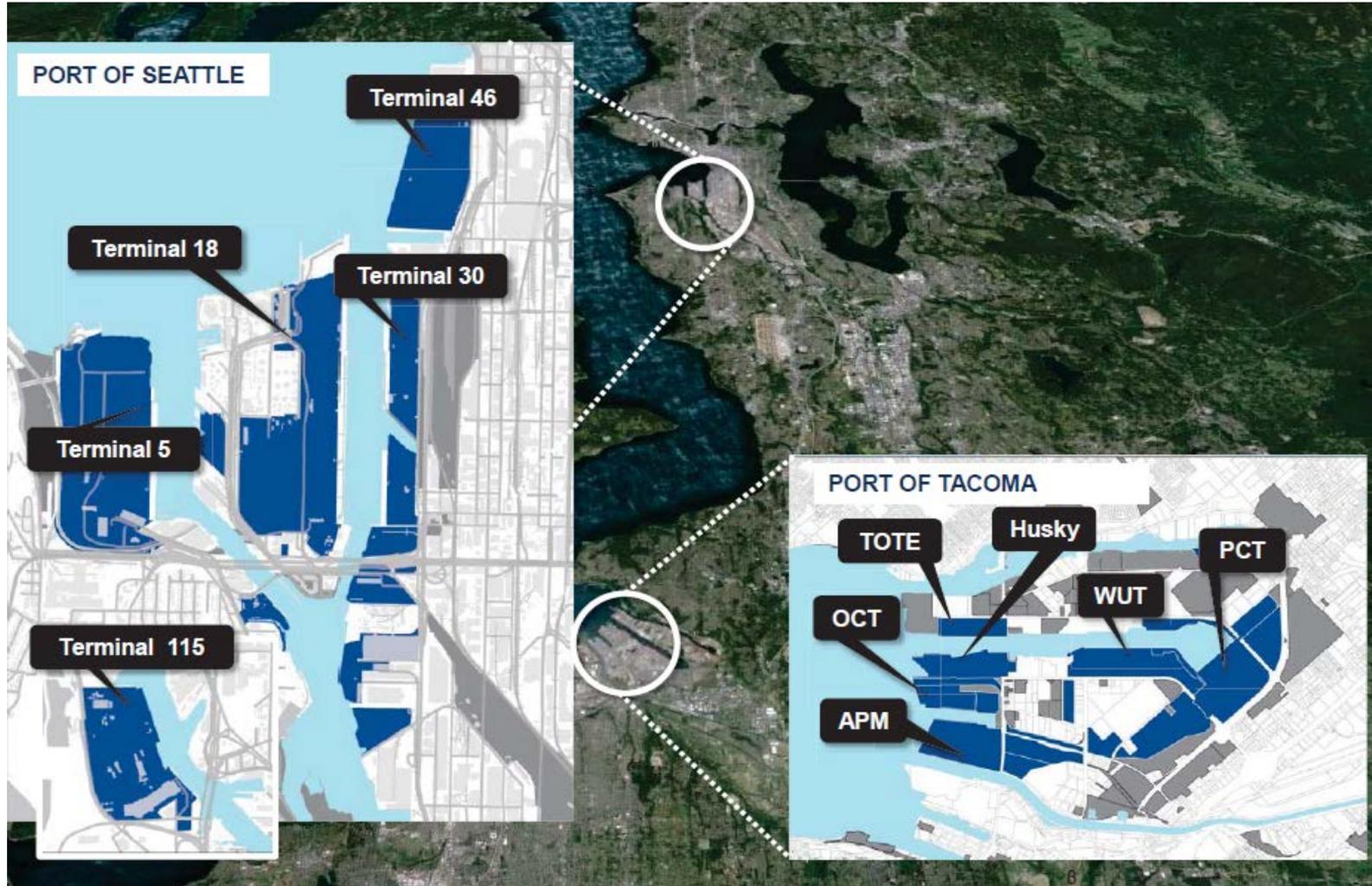
**THE NORTHWEST
SEAPORT ALLIANCE**
Gateway to Solutions

Pacific Chapter – WEDA
Annual Conference
San Diego, CA
October 19 - 21

Strategic Dredging Plans

Eric Hanson, Sr. Planner

The Northwest Seaport Alliance (NWSA)

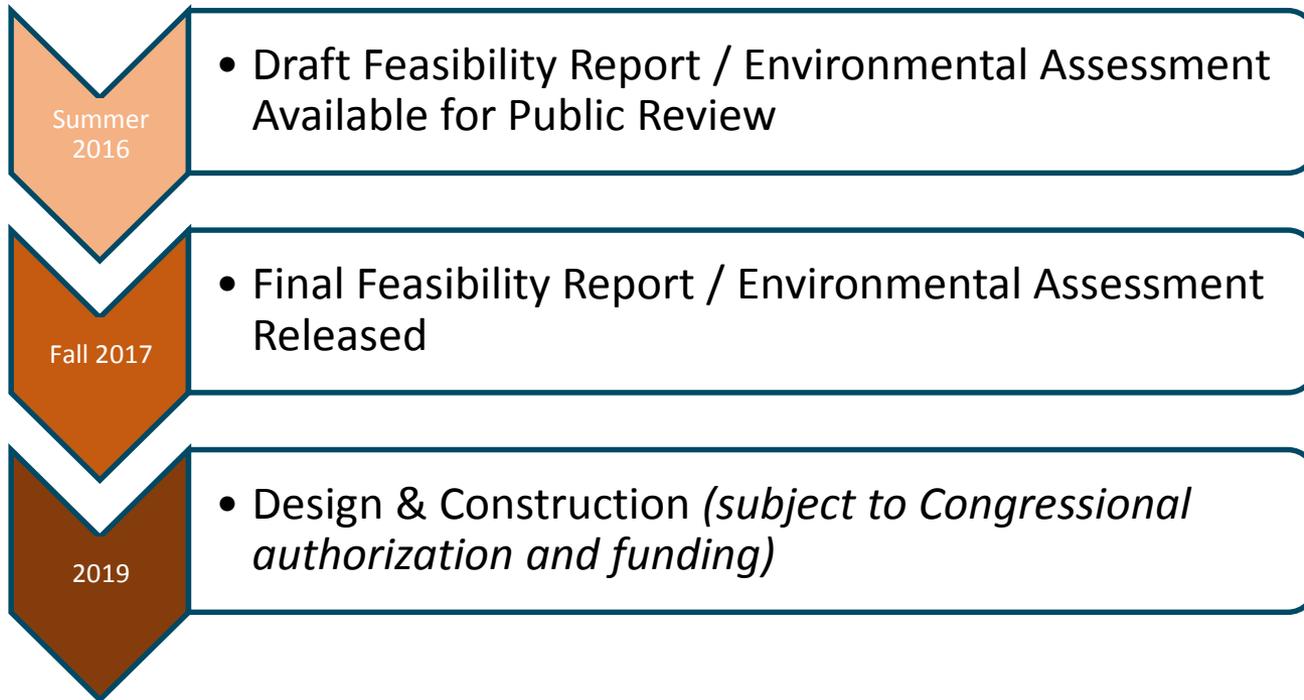


Seattle Harbor Navigation Improvement Project



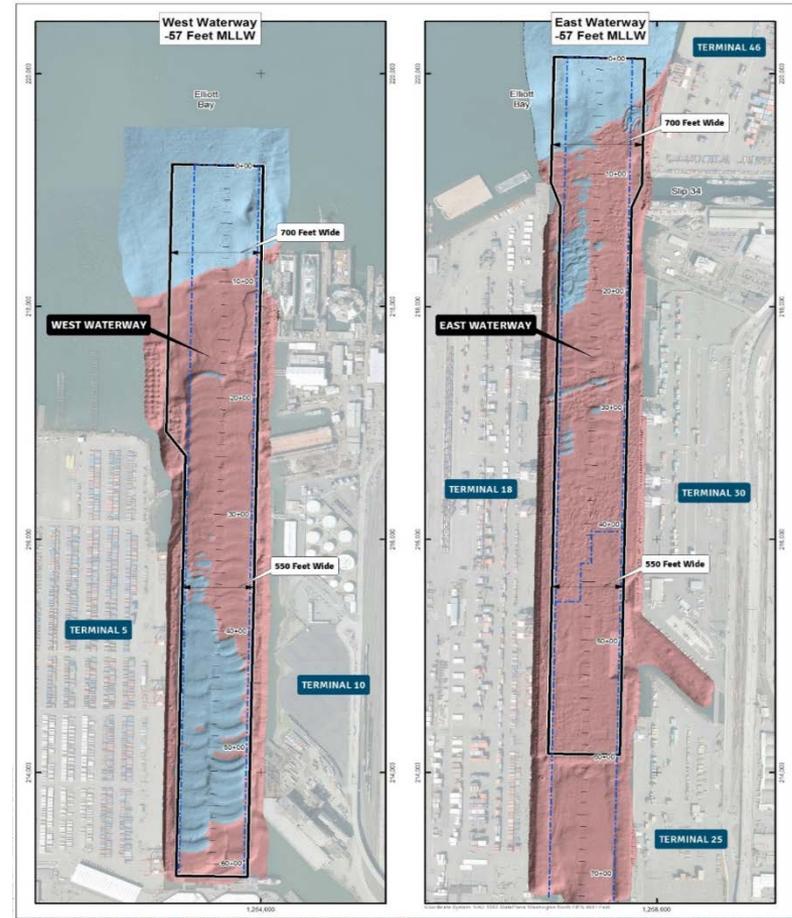
 US Army Corps of Engineers
<http://bit.ly/SeattleHarborGI> |  Port of Seattle
www.portseattle.org

Study Timeline & Public Involvement



Tentatively Selected Plan Details

- **Overview**
 - Deepen both waterways to -57 feet MLLW
- **Quantities**
 - West Waterway: 777,000 cy
 - T - 5 berth area: 37,000 cy
 - East Waterway: 341,000 cy
- **Economic Evaluation**
 - Benefit-cost ratio: 7.5



Federal and Local Costs

Table 3-8. Comparison of NED Plan and Locally Preferred Plan

Alternative (Combined)	Total AAEQ Costs	Total AAEQ Benefits	Total Net Benefits	Incremental Net Benefits	Benefit/Cost Ratio (BCR)
-56 MLLW	\$13,722,000	\$108,807,000	\$95,085,000	--	7.9
-57 MLLW	\$14,692,000	\$109,592,000	\$94,900,000	-\$185,000	7.5

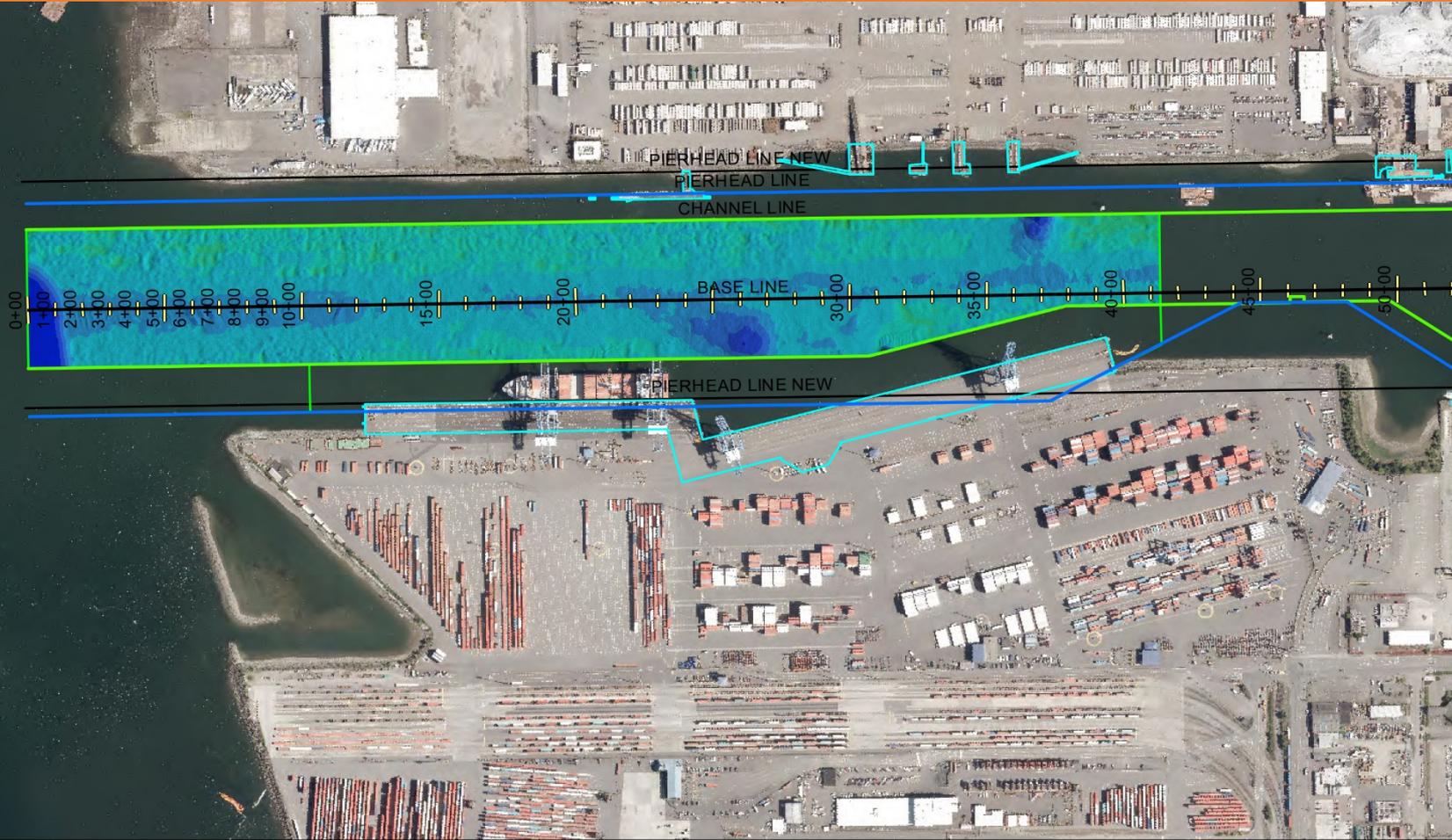
Local agency cost is estimated at \$68 million for Federal Channels



GCP "Big Ship" Phases



GCP Bathymetry

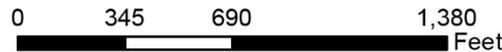


CHANNEL AREA

Surface Volume Between 2015 Bathymetric Survey Depth
and -57 Feet in the Illustrated Area:
= 8,268,006 Cubic Feet or
= 306,222 Cubic Yards

Legend

— Base Line	—50 -- -48
— BenchMark	—51 -- -50
— Channel Line	—52 -- -51
— Pierhead Line	—54 -- -52
Channel	—56 -- -54
—46 - 0	—58 -- -56
—48 - -46	—60 -- -58
	—73.859 -- -60



Links and Contact Information

Draft Feasibility Study:

<http://www.nws.usace.army.mil/Portals/27/docs/environmental/resources/2016EnvironmentalDocuments/SHNIP/Seattle%20Harbor%20-%20Draft%20FR-EA%20-%202016.pdf>

Eric Hanson: ehanson@nwseaportalliance.com

