

Item: 6C

Date: 1/22/25

ECHO Design Project Authorization

Norman Gilbert, PE

Engineering Project Manager II

Port of Tacoma Commission Meeting

Date: January 22, 2025



Action Requested

Request project authorization in the amount \$405,000 for a total authorized amount of \$1,105,000, for work associated with the East Commencement Habitat Opportunity (ECHO), Project Identification No. 101631.01.

- The exposed shoreline along a portion of Marine View Drive, including the Dick Gilmur Boat Launch, is experiencing significant erosion due to heavy wave action during storm events.
- Construction of an intertidal habitat feature along the parcel 83 shoreline and in conjunction with beneficial placement of dredge material from the USACE Blair Waterway deepening project will dissipate the wave action slowing the erosion and generating habitat credits for use to mitigate other Port projects.

- The area waterward of Port parcel 83 was used to raft and store logs inside of log booms for much of the 20th century.
- The Dick Gilmur Boat Launch was constructed in 2011 to provide parking and water access for hand launched boats.
- Shoreline on either side of the boat launch was designed to slowly erode over time and would require periodic replenishment.
- During 2015/16 log storage ended and the log booms were removed.

- Greater than designed erosion of the shoreline occurred in 2016 requiring repairs. Repairs were again needed in 2017, 2021 and most recently as of last month.
- Construction of an intertidal habitat feature will dissipate the wave action and slow shoreline erosion.
- This project is also intended to beneficial reuse of dredge sediment from the berth deepening project and will generate habitat credit that may be used for other Port projects.

The scope of the project is to design and construct a nearshore intertidal habitat site that will beneficially reuse dredge sediment and provide shoreline protection along parcel 83. This project will also coordinate with the US Army Corps of Engineers for their proposed placement of dredge material at the adjacent DNR leased area.

Scope of Work for This Request:

- Perform geotechnical site exploration and data collection
- Project design to 30% level incorporating the geotechnical data
- Coastal modeling
- Project management

- Execute Professional Service Agreement Amendment in January 2025
- Geotechnical site exploration in February 2025
- Complete 30% design in June 2025

- The estimated cost of preliminary to 30% Design for this project is \$1,105,000.
- The estimated total cost of design for this project is \$1,600,00.
- The estimated budget for this project is \$6,450,000.
- The 2025-2029 Capital Investment Plan (CIP) allocates \$6,450,000 for this project.

Financial Summary

Item	This Request	Total Previous Requests	Total Request	Total Project Cost	Cost to Date	Remaining Cost
Design	\$405,000	\$700,000	\$1,105,000	\$1,600,000	\$175,865	\$1,424,135
Construction	\$0	\$0	\$0	\$4,850,000	\$0	\$4,850,000
Project Total	\$405,000	\$700,000	\$1,105,000	\$6,450,000	\$175,865	\$6,274,135

- The project preserves public access via the Dick Gilmer Boat Launch and will create new intertidal marine habitat.
- Advance mitigation credits derived from this site will be used to support future Port maintenance and growth.

- Permitting: This effort will require environmental review under SEPA and a full suite of environmental permits including Corps Section 404 and Section 10 permits, Ecology Section 401 Water Quality Certification, Hydraulic Project Approval and City of Tacoma Shoreline and Critical Areas permits. It will be integrated with the Blair Waterway berth deepening permitting effort and will include an evaluation of potential conservation credits (Discounted Service Acre Years) from the National Marine Fisheries Service.
- Remediation: N/A
- Stormwater: N/A
- Air Quality: N/A

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Thank You

Questions & Discussion



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