

Prepared by:
Dredged Material Management Office
Seattle District, US Army Corps of Engineers

MEMORANDUM FOR: RECORD

April 11, 2019

SUBJECT: VOLUME REVISION FOR PROPOSED DREDGED MATERIAL FROM MAINTENANCE DREDGING OF THE BARBEE MILL/CUGINI BOATHOUSE (NWS-2016-184) ON LAKE WASHINGTON, KING COUNTY, FOR OPEN-WATER DISPOSAL AT THE ELLIOTT BAY NON-DISPERSIVE SITE.

1. Introduction. This memorandum supplements the 02 February 2017 suitability determination and reflects the consensus determination of the Dredged Material Management Program (DMMP) agencies (U.S. Army Corps of Engineers, Environmental Protection Agency, and Washington Departments of Ecology and Natural Resources) regarding a proposed volume increase for the Barbee Mill/Cugini Boathouse dredging and disposal from 2,700 cubic yards (CY) to 4,000 CY.

2. Background. The Barbee Mill/Cugini Boathouse is located on the eastern shore of Lake Washington in King County, Washington. The original approved volume of 2,700 CY was calculated using 2016 bathymetry and a target dredge design depth of 10 feet (ft) Corps of Engineers Lake Washington datum (called "Mean Sea Level" or "MSL" in the conceptual design document). Over dredge volume was not included in the volume calculation. Three core samples were collected and composited into a single composite to characterize the sediment for this moderate ranked project. There were no marine or freshwater screening level exceedances for the DMMP chemicals of concern.

The new proposed volume of 4,000 CY was calculated using the same bathymetry and the same target dredging design depth, but has a slightly modified footprint and includes a 2 ft overdredge (to 8 ft LWSC datum). Between the original and new volume calculations, the project also passed to an engineering consultant with improved software capabilities and knowledge to calculate correct dredging volumes.

3. Analysis. The DMMP agencies reviewed the project design for the increased dredging volume of 4,000 CY and determined that the increased volume of material falls within the footprint of the previously characterized material in the 2017 suitability determination.

A review of Ecology's spill database for reported spills through December 31, 2018 did not reveal any new spills since the 2016 sampling event within a half-mile radius of the project site.

The recency period for the characterization data for this project has not changed. The data used in this determination are valid through July 2021. A new suitability determination must be obtained for any dredging and open- water disposal that occurs after July 2021 or for additional volume beyond 4,000 CY.

In summary, based on the evaluation of the modified project, the DMMP agencies have concluded that all 4,000 CY are suitable for open-water disposal at the Elliott Bay disposal site.

*This volume revision does **not** constitute final agency approval of the project. During the public comment period that follows a public notice, the resource agencies will provide input on the overall project. A final decision will be made after full consideration of agency input, and after an alternatives analysis is done under section 404(b)(1) of the Clean Water Act.*

Agency Signatures.

signed copy on file in DMMO - Seattle District office

Concur:

Date Heather Whitney Fourie – U.S. Army Corps of Engineers, Seattle District

Date Erika Hoffman – Environmental Protection Agency

Date Laura Inouye, Ph.D. - Washington Department of Ecology

Date Celia Barton - Washington Department of Natural Resources

References

Dalton Olmstead Fuglevand 2019. 90% Design: Sediment Deposition Mitigation, Lake Houses at Eagle Cove on lake Washington. Prepared for the Barbee Company, March 25, 2019.

DMMP 2018. *Dredged Material Evaluation and Disposal Procedures (User Manual)*. Dredged Material Management Program, updated December 2018.

DMMP 2017. *Determination Regarding the Suitability of Proposed Dredged Material from Barbee Mill Boathouse for Open-Water Disposal at the Elliott Bay Non-Dispersive Site*. Prepared by the Dredged material Management Office for the Dredged Material Management Program, February 2, 2017.

Copies furnished

DMMP signatories
Rory Lee, Seattle District Regulatory
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