CENWS-OD-TS-NR

MEMORANDUM FOR: RECORD July 14, 2016

SUBJECT: DMMP TIER 1 ANTIDEGRADATION EVALUATION OF THE PROPOSED POST-DREDGE SEDIMENT SURFACE TO VERIFY COMPLIANCE WITH THE WASHINGTON STATE ANTIDEGRADATION POLICY FOR THE COZY COVE DREDGING PROJECT, LAKE WASHINGTON.

1. Introduction. This memorandum reflects the consensus determination of the Dredged Material Management Program (DMMP) agencies (U.S. Army Corps of Engineers, Washington Departments of Ecology and Natural Resources, and the Environmental Protection Agency) regarding the suitability of the exposed sediment surface after removal of approximately 1,000 cy of accumulated sediment from an existing moorage channel in Cozy Cove, Lake Washington. The project proposal also includes a shoreline restoration component. All material will be removed from the water and disposed in an upland location, so DMMP evaluation of the proposed dredged material was not necessary. However, in order to determine compliance with the Sediment Management Standards (SMS) antidegradation policy (Washington Administrative Code [WAC]-173-204-120), a Tier 1 evaluation of the proposed post-dredge surface was conducted.

2. Project. The project area is on the eastern side of Lake Washington, near the mouth of an unnamed stream in Hunts Point (Figure 1). Approximately 1,000 cy of material from the access channel into the boat basin is proposed for removal. Previous sediment testing in the area indicated that proposed dredged material is a mixture of peat and silt (Environmental Engineering and Consulting 1990; DMMP 2002). The nature of the material led to difficulties with both chemical analysis and bioassay testing and was determined unsuitable for open water disposal. For the current project, the proponent has chosen to take the material upland rather than to pursue testing and open-water disposal. As part of the proposed project, an existing bulkhead will be removed and the lake shoreline enhanced.

3. Upland disposal locations. The Best Management Practices detailed in the JARPA for dewatering dredged material before upland disposal are encouraged and supported. For further guidance on suitability for potential upland disposal the applicant should consult the local health district for guidance.

4. Anti-degradation Evaluation. The low solids content previously found in this area makes it not only problematic to analyze, but also to dispose in open water. Peaty material would tend to be neutrally buoyant when disposed, so would tend to stay in the water column and disperse more widely than typical dredged material. However, Tier 1 analysis of the dredge area showed little reason-to-believe that the post-dredge surface would not comply with the state antidegradation policy. Presumed high organics in the proposed dredged material are also expected in the post-dredge surface, leaving a similar sediment quality post-dredge as pre-dredge. The DMMP required no additional sampling to verify compliance with state antidegradation standards. However, this evaluation does not support any in-water disposal of dredged sediments.

5. References.

DMMP 2002. *Suitability Determination Memorandum for Haug Channel, Lake Washington*. Prepared by David Kendall (USACE) for the DMMP agencies, July 25, 2002.

DMMP 2008. *DMMP Clarification Paper: Quality of Post-Dredge Sediment Surfaces (Updated).* Prepared by David Fox (USACE), Erika Hoffman (EPA) and Tom Gries (Ecology) for the Dredged Material Management Program, June 2008.

Ecology (Washington State Department of Ecology) 2013. *Sediment Management Standards – Chapter 173-204 WAC*. Washington State Department of Ecology, February 2013

Environmental Engineering and Consulting, Inc.1990. *Environmental Sampling of Sediments in Cozy Cove, Bellevue, Washington.* Report prepared for the Cozy Cove Homeowners, Bellevue, Washington. May 5, 1990.

6. Signature. This determination was coordinated by the undersigned with Laura Inouye (Ecology), Justine Barton (EPA) and Celia Barton (DNR).

signed copy on file in the DMMP office

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Date Lauran Warner - Seattle District Corps of Engineers

Copies Furnished:

DMMP agencies

Dan Nickel, The Watershed Company

USACE Regulatory Project Manager

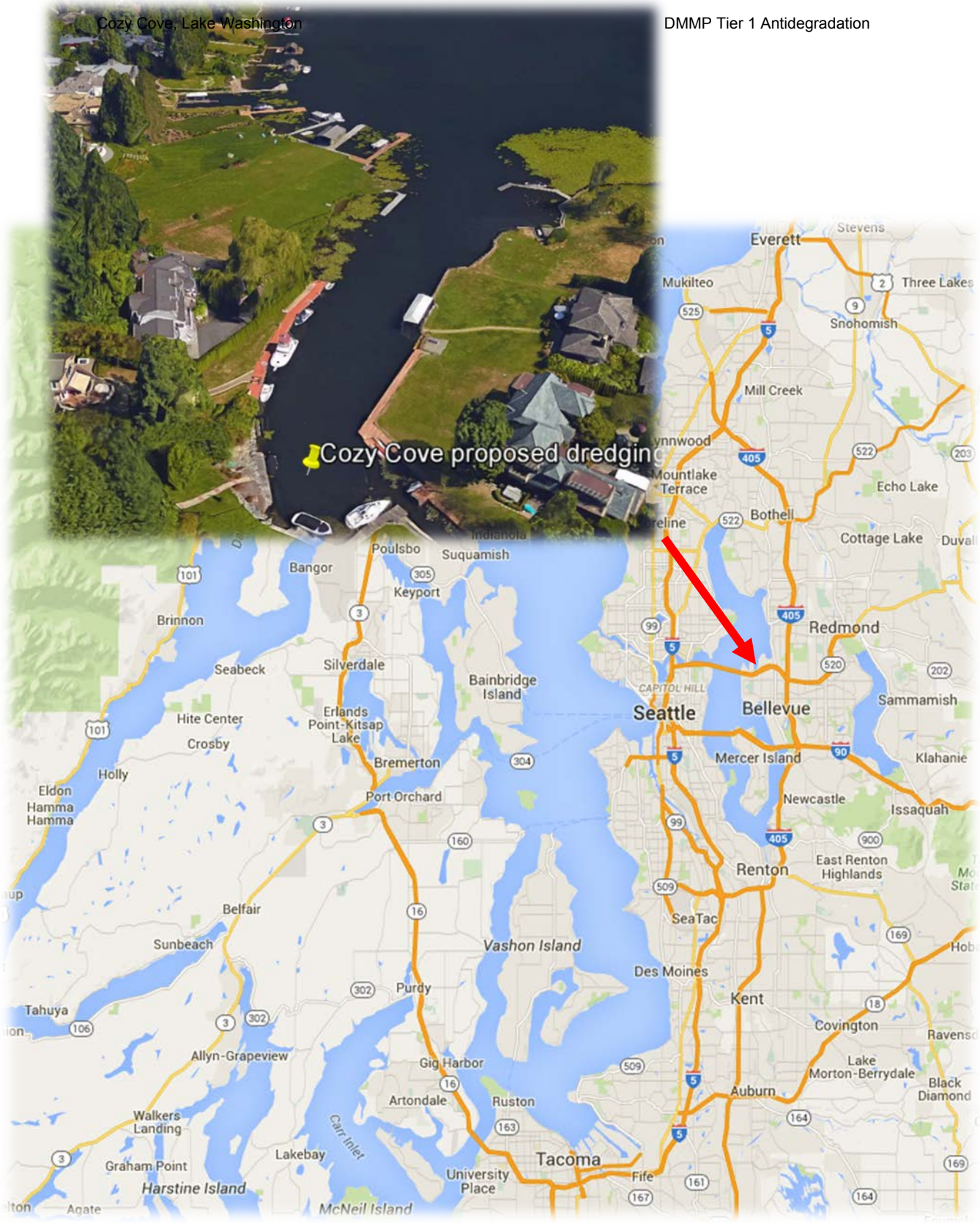

Figure 1. Cozy Cove project location.