CENWS-OD-TS **6 October 1999**
Dredged Material Management Office

MEMORANDUM FOR RECORD

SUBJECT: DETERMINATION OF THE SUITABLITY OF DREDGED MATERIAL TESTED UNDER DMMP EVALUATION PROCEDURES FOR WEYERHAEUSER BAY CITY DOCK FOR DISPOSAL AT THE SOUTH JETTY OR POINT CHEHALIS OPEN- WATER DISPOSAL SITES.

1. Weyerhaeuser Twin Harbors Operation proposes to maintenance dredge approximately 12,000 cubic yards of material from the vicinity of its dock at the Bay City facility at Cosmopolis Washington. The following summary reflects the DMMP agencies (Corps of Engineers, Department of Ecology, Department of Natural Resources and the Environmental Protection Agency) consensus decision on the acceptability of the sampling plan and all relevant test data to make a determination of suitability for the disposal of the material at a DMMP open-water disposal site.

2. The ranking for this area is "low-moderate" based on guidance provided in the "Dredged Material Evaluation Procedures and Disposal Site Management Manual, Grays Harbor and Willapa Bay," page 47.

3. A sampling and analysis plan was completed for this project and approved by the DMMP agencies on 24 February 1999. Sampling for this project was performed on 3 May 1999.

SAP approval date	24 February 1999
Sampling date	3 May 1999
Data Report submittal date	9 September 1999
Recency determination dates	3 May 2005

4. Grab samples were taken from four locations within one DMMU and composited for one analysis (DMMU-1). In addition to the standard list of chemicals of concern for Grays Harbor/Willapa Bay, the composite was analyzed for the presence of alpha-BHC, beta-BHC, 1-naphthenol, guaiacols, dioxins, and furans.

5. There were no exceedances of 1999 DMMP screening levels. All detection limits were below screening levels. Alpha-BHC and beta-BHC were not detected (with a detection limit of 1.0μ/kg), 1-naphthenol was not detected (with a detection limit of 170 μg/kg), guaiacol was not detected (with a detection limit of 34 μg/kg) and 2,4,5-trichloroguaiacol, 4,5,6-trichloroguaiacol, and tetrachloroguaiacol were not detected (with a detection limit of 170 μg/kg). Dioxin testing showed that 2,3,7,8-

tetrachlorodibenzo-p-dioxin (the dioxin congener of greatest concern) was not detected at a detection limit of 0.64 ng/kg. A toxic equivalent concentration (TEC) is also calculated for dioxins/furans. Total TEC was 1.066 ng/kg. Both of these levels are well below the concern levels documented in the PSDDA User's Manual (1998, page 39). No additional biological testing was required.

6. The chemical analytical data were also compared to the State Sediment Management Standards, excluding the analysis of chromium. No chemicals exceeded SMS criteria. Based on this information, the DMMP agencies determined that the sediments from Bay City are chemically suitable for use in beneficial use projects. Sediment conventional data are included in Table 1.

7. In summary, the DMMP-approved sampling and analysis plan was followed, and quality assurance, quality control guidelines specified by the DMMP were followed. The data gathered were deemed sufficient and acceptable for regulatory decision-making under the DMMP program. Based on the results of the chemical testing, the consensus determination of the DMMP agencies is that all 12,000 cubic yards from the Bay City site are suitable for open-water disposal.

8. This memorandum documents the suitability of proposed dredged sediments for disposal at an open-water disposal site or for beneficial use. It does not constitute final agency approval of the project. A dredging plan for this project must be completed as part of the final project approval process. A final decision will be made after full consideration of agency and public input, and after an alternatives analysis is done under section 404 (b) 1 of the Clean Water Act.

Concur:

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Table 1. Sediment Conventional Parameters

Parameter	DMMU - 1
Total Solids (%)	40.8
Total Organic Carbon (%)	2.7
Bulk Ammonia (mg/kg)	51
Total Sulfides (mg/kg)	<25
Grain-size (%) gravel sand silt clay	 0.2 15.6 60.2 24.1