

11 June 1999

SUBJECT: DETERMINATION ON THE SUITABILITY OF THE PROPOSED DREDGED MATERIAL TESTED FROM THE PORT GARDNER OUTFALL REPLACEMENT PROJECT EVALUATED UNDER SECTION 404 OF THE CLEAN WATER ACT (CWA) FOR OPEN-WATER DISPOSAL AT THE PORT GARDNER DISPOSAL SITE.

1. The following summary reflects the consensus determination of the Agencies' (U.S. Army Corps of Engineers, Department of Ecology, Department of Natural Resources, and the Environmental Protection Agency) with jurisdiction on dredging and disposal on the suitability of the estimated 29,700 cy of dredged material from the Port Gardner outfall replacement project located in Port Gardner Bay in Everett, Washington for unconfined open-water disposal at the Port Gardner disposal site.
2. The project was ranked moderate for testing purposes, and sampling consisted of collecting two core samples with a Ross vibracore P-3 vibracore sampler from five stations and composited into two surface and one subsurface dredged material management units (DMMUs) on January 7, 1999 by the contractor (CH2M Hill) from the proposed dredging footprint (see figure 1). Three of the five surface core samples were composited for one DMMU, whereas the remaining two surface core samples were composited for the second DMMU. Subsamples from all cores were composited for the third subsurface DMMU.
3. The Agencies' approved sampling and analysis plan for testing the three DMMUs were followed, and quality assurance quality control guidelines specified by the Puget Sound Dredged Disposal Analysis Users Manual were generally complied with. The data gathered were deemed sufficient and acceptable for decision making by the Dredged Material Management Program (DMMMP) agencies based on best professional judgment.
4. Relevant dates for regulatory tracking purposes are included in Table 1.

Table 1. Regulatory Tracking Dates

SAP received 11/19/98

SAP Approval date:	December 8, 1998
Sampling date(s):	January 7, 1999
Data report submittal date:	June 1, 1999
Recency Determination Date:	Moderate (5-7 years) January 2004-2006

5. Table 2 summarizes the sediment conventional parameters for the three composited DMMUs analyzed. Chemical analysis of the composited DMMUs indicated that there were no detected or undetected exceedances of screening levels for all 58 chemicals of concern.

SAP received:

November 19, 1998

City of Everett

Table 2. Sediment Conventional Results.

Parameter	SURFACE DMMU C1 8,800 cy	SURFACE DMMU C2 8,800 cy	SUBSURFACE DMMU C3 12,100 cy	DMMU C4 (field duplicate: C2)
Grain Size:				
% Gravel	32.7	1.7	0.9	1.5
% Sand	66.3	94.8	95.7	95.8
% Silt	0.6	2.2	2.2	1.7
% Clay	0.4	1.3	1.2	1.0
% Fines (clay+silt)	1.0	3.5	3.4	2.7
Total Solids, %	85.3	81	81.8	86.2
Volatile Solids, %	0.94	1.3	1.9	1.2
Total Organic Carbon, %	0.34	0.34	0.23	0.35
Total Sulfides, mg/kg	1.3u	8.5	75	1.5u
Total N-Ammonia, mg/kg	0.26	0.27	0.19u	0.18u

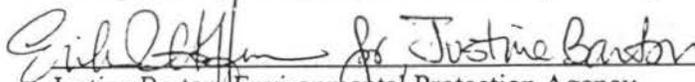
- The agencies concluded that all three DMMUs passed PSDDA non-dispersive disposal site guidelines for open-water disposal. The 29,700 cy of material is suitable for placement at the Port Gardner open-water disposal site. Moreover, the material was evaluated relative to the Sediment Management Standards and all three DMMU were found to be below the Sediment Quality Standards (SQS) for all chemicals of concern. The material is therefore suitable for appropriate beneficial use projects.
- This memorandum documents the suitability of proposed dredged maintenance material from the Port Gardner outfall replacement project for disposal at the Port Gardner non-dispersive open-water disposal site, and its suitability for beneficial use projects. However, this suitability determination 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 input, and after an alternatives analysis is done under Section 404(b)(1) of the Clean Water Act.

Concur:

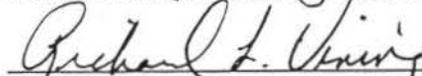
5/23/99
Date


David Kendall, Ph.D., Seattle District Corps of Engineers

6/15/99
Date


Justine Barton, Environmental Protection Agency

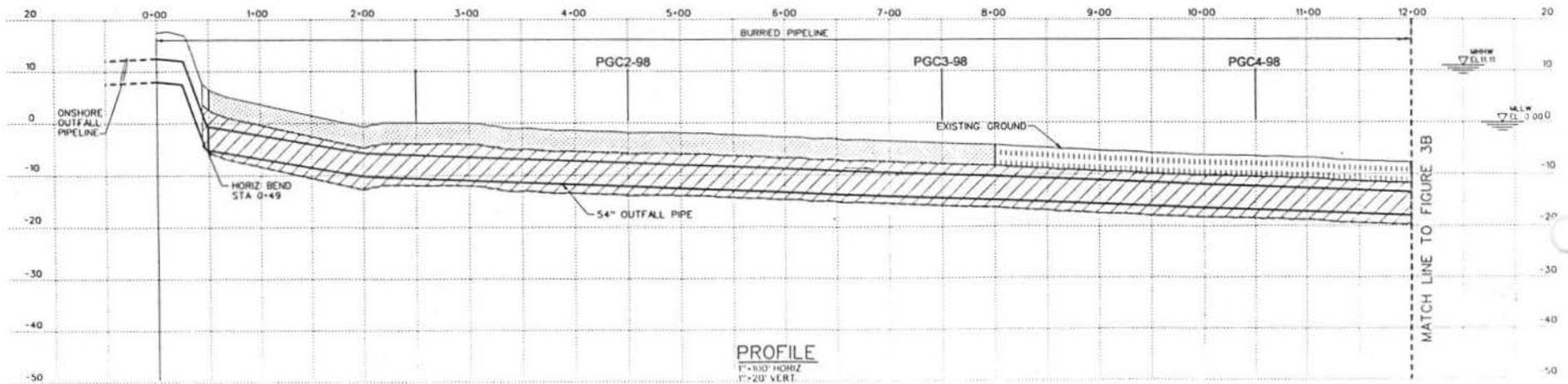
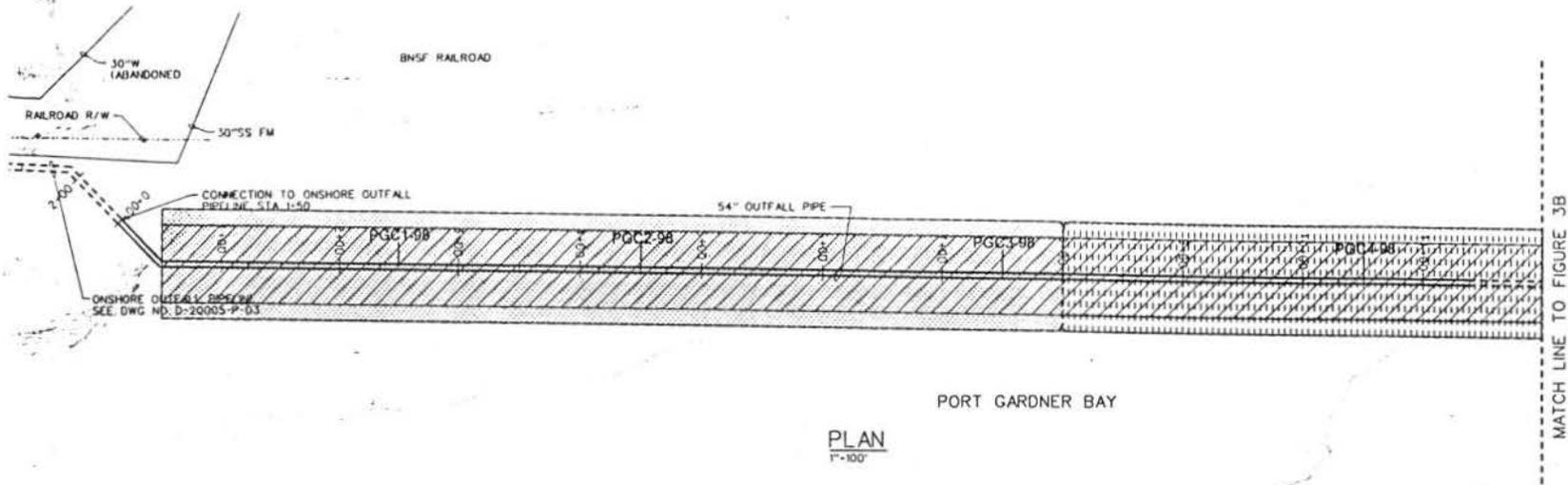
6/17/99
Date


Rick Vining, Washington Department of Ecology

6/21/99
Date


Ted Benson, Washington Department of Natural Resources

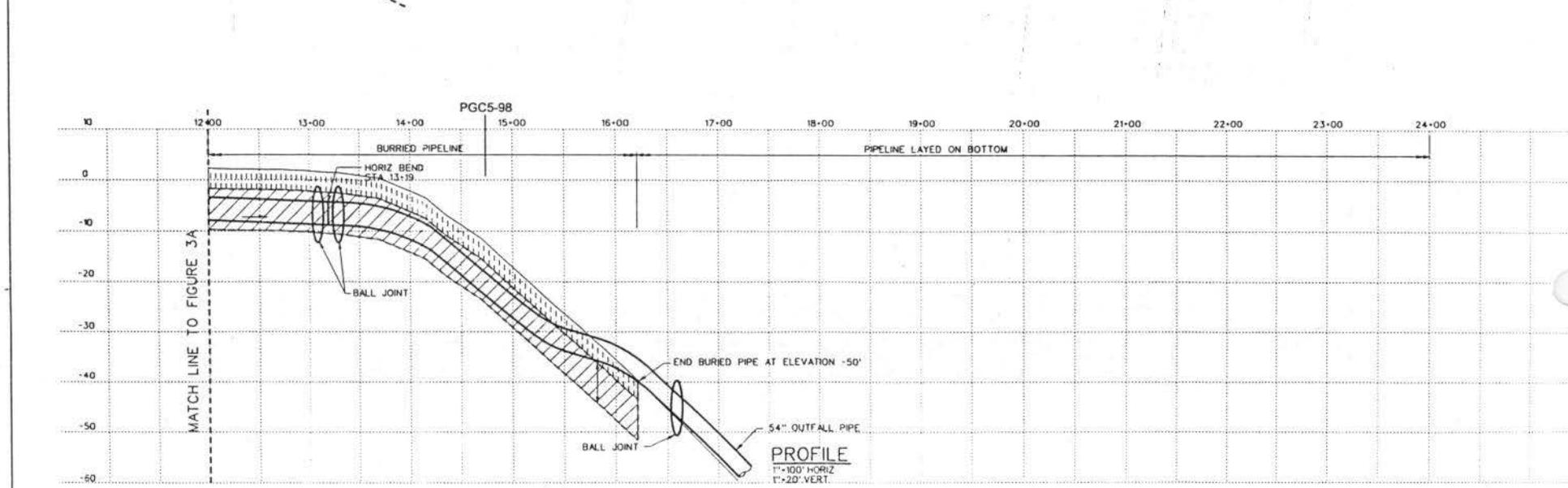
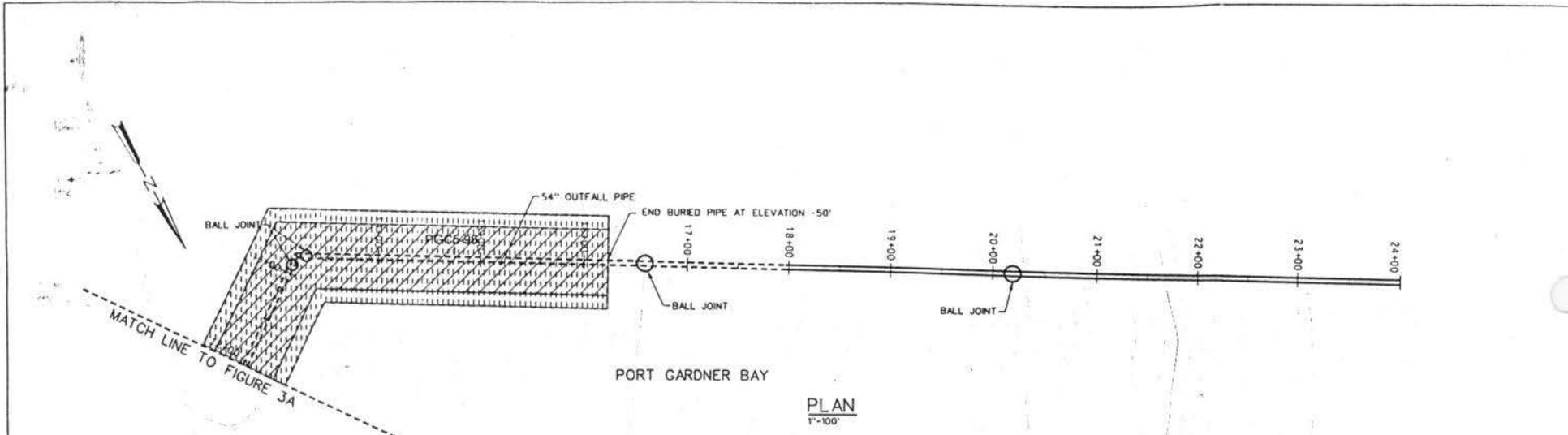
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LEGEND

○	PLANNED SAMPLE LOCATION
▨	DREDGE MATERIAL MANAGEMENT UNIT (DMMU)
▨ (diagonal lines)	PGC1-98C 10 TO 4 FT BELOW BAY BOTTOM
▨ (cross-hatch)	PGC2-98C 10 TO 4 FT BELOW BAY BOTTOM
▨ (horizontal lines)	PGC3-98C 14 TO 72 FT BELOW BAY BOTTOM

Figure 3A
Planned Sample Locations and DMMUs



- LEGEND**
- PGC1-98 PLANNED SAMPLE LOCATION
 - DREDGE MATERIAL MANAGEMENT UNIT (DMMU)
 - PGC1-98C (2 TO 4 FT BELOW BAY BOTTOM)
 - PGC2-98C (2 TO 4 FT BELOW BAY BOTTOM)
 - PGC3-98C (4 TO 12 FT BELOW BAY BOTTOM)

Figure 3B
Planned Sample Locations and DMMUs