CENPS-OP-DMMO

MEMORANDUM FOR RECORD 1 July 1992

SUBJECT: DETERMINATION OF THE SUITABILITY OF DREDGED MATERIAL TESTED UNDER PSDDA EVALUATION PROCEDURES FOR THE SHELL OIL TERMINAL (92-2-00067) FOR DISPOSAL AT THE PSDDA ROSARIO STRAIT OPEN-WATER DISPERSIVE SITE.

1. The Shell Oil Company proposes to dredge 26,636 cubic yards of sediments from its pier at March Point near Anacortes, Washington. The following summary reflects the PSDDA 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 the PSDDA Rosario Strait open-water dispersive site.

2. The initial ranking for the project area was "moderate", based on the guidance provided in the PSDDA Management Plan Report, Phase II (page A-11) for berthing facilities. However, an oil spill at March Point in February 1991 gave the PSDDA agencies reason to believe that the site may have been contaminated by petroleum hydrocarbons, and caused the agencies to consider a site reranking of "high". Preliminary sampling was completed to determine the potential contamination for petroleum hydrocarbons. Since the partial sampling showed concentrations of these compounds to be undetected or below PSDDA screening levels, the site retained its moderate ranking.

3. A sampling and analysis plan was developed for this project and approved by the PSDDA agencies on 21 April 1992.

4. Three dredged material management units (DMMU) were characterized. DMMU C1 consisted of composited surface sediments from two sampling locations in the north moorage basin. DMMU C2 consisted of composited surface and subsurface sediments from three sample locations from the eastern portion of the south moorage basin and DMMU C3 consisted of surface sediments from two sample locations from the western portion of the south moorage basin.

5. The chemistry data indicated that no detected exceedances of the Dredging Year 1992 PSDDA screening levels (SL) occurred for any of the three analyses. There were no detection limits reported above SL.

6. Quality assurance/ quality control problems were encountered in the analysis of antimony. The achieved detection limit using ICP analysis exceeded the PSDDA specified detection limit. In addition, the recovery for antimony was outside PSDDA control limits. In order to assure that no antimony concentrations over PSDDA screening levels were undetected, the antimony analysis was rerun using GFAA, which achieved a detection limit well below the PSDDA specified level. This second analysis assures that no antimony was present above PSDDA screening levels.

6. In summary, the PSDDA-approved sampling and testing plan was followed, and quality assurance, quality control guidelines specified by PSDDA were generally complied with during testing. The data gathered were deemed sufficient and acceptable for suitability decision-making under the PSDDA program.

7. Based on the analysis of the chemical results for the Shell Oil Pier, the PSDDA agencies concluded that all 26,636 cubic yards of proposed dredged material were suitable for unconfined open-water disposal at either a PSDDA dispersive site or non-dispersive site.

8. This memorandum documents the suitability of proposed dredged sediments for disposal at a PSDDA open-water disposal site. It does not constitute final agency approval of the project. A public notice will be issued for this project. During the public comment period which 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.

Concur:

3 August 1992
Date

David Kendall, Ph.D
Seattle District Corps of Engineers

6 July 1992
Date

Stephanie Stirling
Seattle District Corps of Engineers

18 July 1992
Date

Justine Smith
Environmental Protection Agency, Region X

30 July 1992
Date

Russ McMillan
Washington Department of Ecology

21 July 1992
Date

Gene Revelas
Washington Department of Natural Resources

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EPA/Justine Smith
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DNR/Gene Revelas
DMMO file

CENPS-OP-DMMO

MEMORANDUM FOR RECORD **20 January 1993**

SUBJECT: DETERMINATION OF THE SUITABILITY OF ADDITIONAL DREDGED MATERIAL FROM THE SHELL OIL TERMINAL, ANACORTES (92-2-00067) FOR DISPOSAL AT THE ROSARIO STRAIT OPEN-WATER DISPERSIVE SITE.

1. Initial dredging at the Shell Terminal indicates that volumes to be disposed will exceed the permitted volume of 26,636 cubic yards by as much as 25%, approximately 7,000 cubic yards. The project applicant contacted the PSDDA agencies to request an amendment to the permits to allow dredging and disposal of the additional volume.

2. A review of the PSDDA suitability determination (dated 1 July 1992) indicates that three DMMU were analyzed. The Shell terminal is in a moderate ranked area. The Management Plan Report, Phase II (Page A-16) states that the maximum volume to be characterized by each analysis is 16,000 cubic yards. The analyses completed are sufficient to characterize 48,000 cubic yards of material. Therefore, the sediment characterization is adequate for the additional volume.

3. The intial chemistry data indicated that no detected exceedances of Dredging Year 1992 PSDDA screening levels (SL) occurred for any of the three analyses. There were no detection limits reported above SL.

4. The adequacy of the characterization is based on the requirement that the dredging footprint did not change and that the dredging depth did not change from that specified in the sampling and analysis plan and the dredging operations plan.

5. This memorandum documents the suitability of additional material for open-water disposal. Modifications to the permits associated with this project from the Departments of Ecology and Natural Resources and from the Corps of Engineers are necessary.

Concur:

_____ _____

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

_____ _____

Date Stephanie Stirling
Seattle District Corps of Engineers

_____ _____

Date Justine Smith
Environmental Protection Agency, Region X

CENPS-OP-DMMO
SHELL OIL
(92-2-00067)

_____
Date

_____
Rick Vining
Washington Department of Ecology

_____
Date

_____
Gene Revelas
Washington Department of Natural Resources

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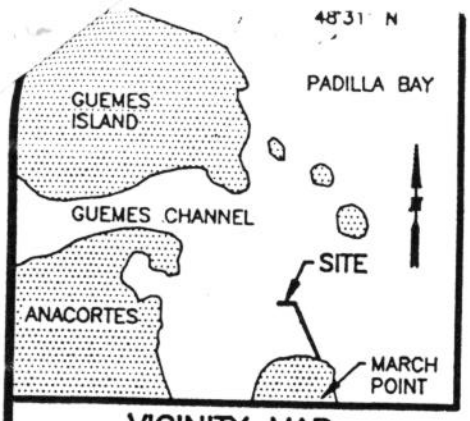
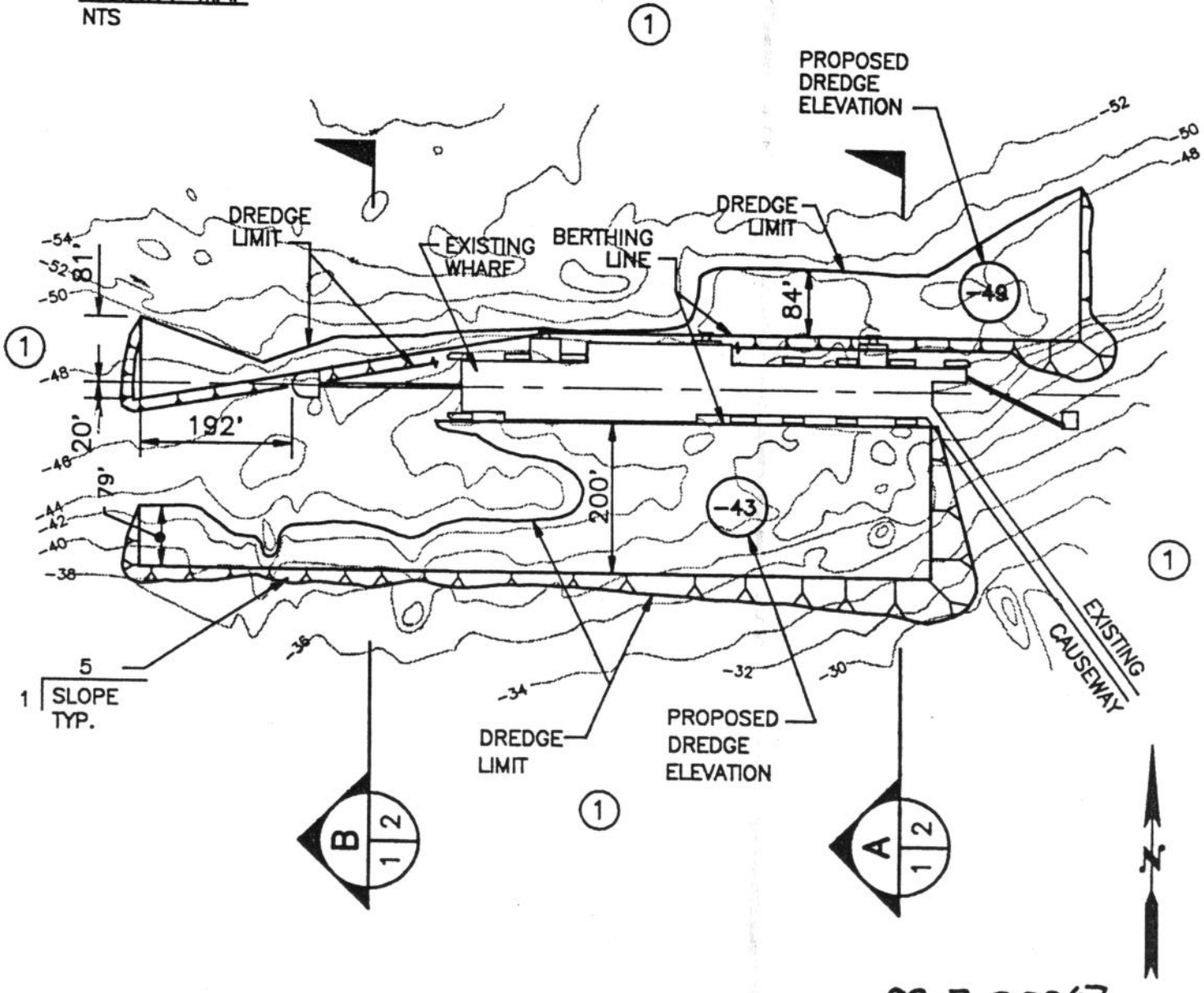
DNR/Gene Revelas
DMMO file



VICINITY MAP
NTS



92-2-00067

PURPOSE:

TO MAINTAIN EXISTING BERTHING FACILITIES

(1) ADJACENT PROPERTY OWNERS:

DEPARTMENT OF NATURAL RESOURCES

PLAN VIEW

GRAPHIC SCALE

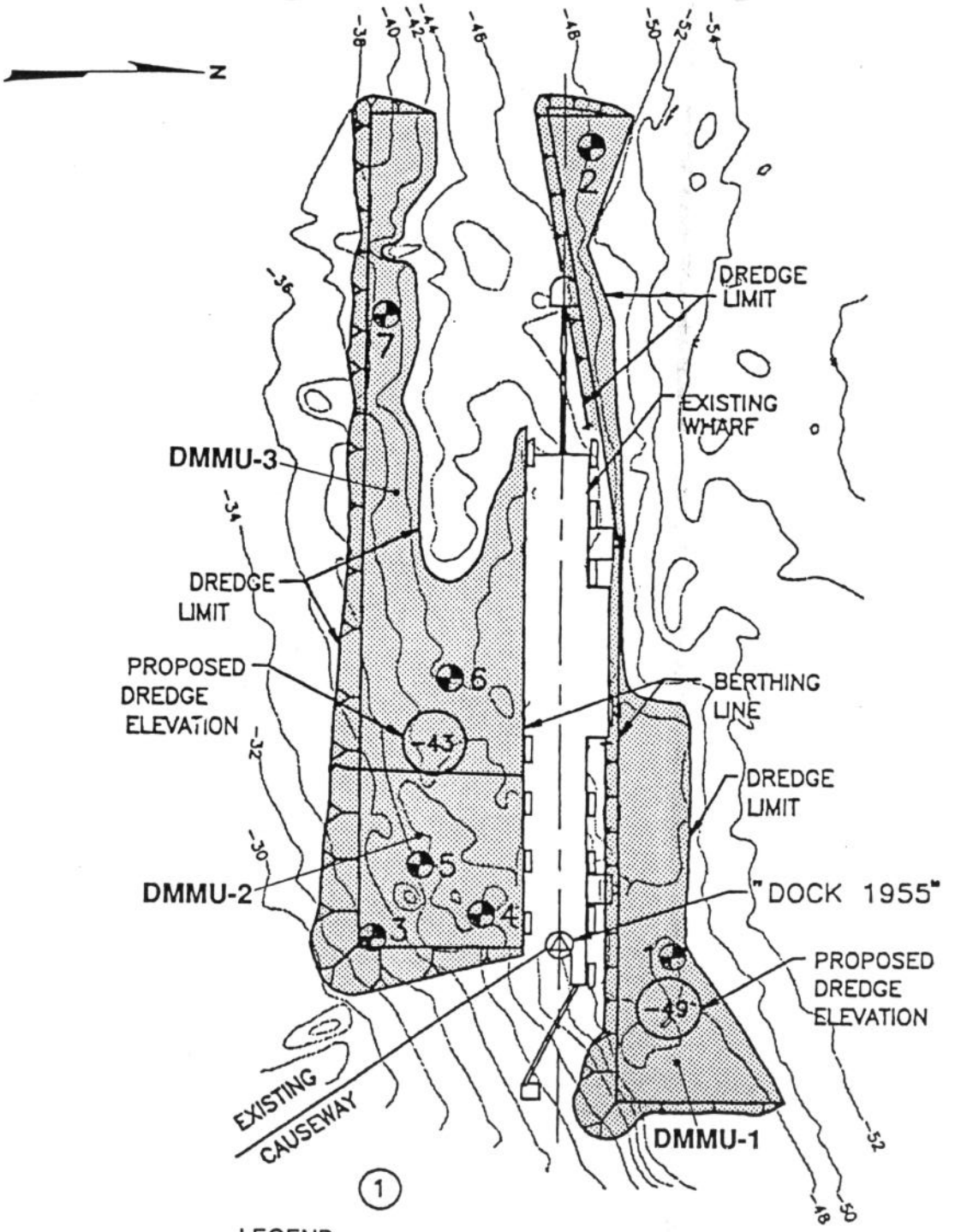
200 100 0 200

SHELL OIL COMPANY
WEST MARCH POINT ROAD
P.O.BOX 700
ANACORTES, WA. 98221

REID MIDDLETON
19031 33rd Ave. W., Suite 301
Lynnwood, WA 98036-6638
206/775-3434

IN: PADILLA BAY
AT: MARCH POINT
COUNTY OF: SKAGIT STATE: WASH.
APPLICATION BY: SHELL OIL COMPANY

SHEET 1 OF 3 DATE: 1/92



NOTE

Map provided by Reid Middleton, dated June, 1992.

Shell Oil Company
Anacortes, Washington

SITE AND EXPLORATION PLAN

June 1992 T-1337-01

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. 1