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Ser 1142E/WAS Alameda

09 FEB 1987

California Regional Water Quality Control Board
San Francisco Bay Region
Attn: G. Fulton
1111 Jackson Street, Room 6040
Oakland, CA 94607

SUBJECT: ALAMEDA WEST BEACH LANDFILL (YOUR FILE 2199.9080A(GRF))

In our previous correspondence and conversations with Ms. Gloria Fulton and Mr. Harold Singer of your staff, we have discussed and have been encouraged to utilize clamshell dredged materials as cover at the West Beach Landfill, Naval Air Station, Alameda. It is currently planned to supplement the existing partial clay cover with the placement of approximately 90,000 cubic yards (60,000 cubic yards, when dry) of clamshell dredged spoils from a military construction project at the Naval Supply Center, Oakland. Refer to enclosure (1) for additional details.

Please provide any comments you may have regarding our plan as soon as possible. We will be attempting to change order the dredging construction contract to incorporate the placement of the 90,000 cubic yards of dredge spoils at the landfill. As berthing requirements are critical, any delay to the current dredging schedule is unacceptable, and it is not clear at this time whether the change order can be accomplished without delaying the required dredging. Contract award (without the change order described above) is anticipated in mid-February with dredging to commence as soon thereafter as feasible. Please direct your comments to Louise T. Lew of our San Bruno office at (415) 877-7497.

Sincerely,

Original signed by:

Alex E. Dong
Head, West Central Environmental Section

Enc1:

- (1) Clamshell Dredged Material
as a Source of Cover at the
West Beach Landfill

Blind copy to:
NAS Alameda

ROICC San Francisco Bay Area
09AZA.13, 051, 102, 203
243, 405, 1142, 1142PI, 1142PI
09AZA.10, 09AZA.20

WRITER: L. Lew/1142E/7497
TYPIST: B. Palmer/5 Feb 87/Ser 1804S
FILE: NAS Alameda

CLAMSHELL DREDGED MATERIAL AS A SOURCE OF COVER
AT THE WEST BEACH LANDFILL

Based upon boring logs and laboratory test data of the sediments to be dredged, which have been provided to you in previous correspondence, spoils dredged from the upper 10 to 14 feet can be used for the clay cover; the remainder of the spoils will be disposed of at the Alcatraz disposal site. Soils in this depth range consist of fine-grained soils having a moisture content of about 100 to 175 percent. Based upon the Atterberg Limits and visual observation of the spoils, it is judged that the permeability will be 1×10^{-6} cm/sec or less when compacted to at least 85 percent relative compaction at 2 to 4 percent above the optimum moisture content. (Relative compaction refers to the in-place dry density of soil expressed as a percentage of the maximum dry density of the same material, as determined by the ASTM D-1557-78 test procedure.) Compaction tests will be performed in the laboratory on the spoils once dredging operations have commenced to determine the maximum dry density achievable at the optimum moisture content. Laboratory permeability tests will be performed on representative specimens of the dredged spoils. Compaction specifications for the clay layer will be established based on the results of these tests.

The sediments for the clay layer will be transported to the site from the Oakland Naval Supply Center by barge and placed on the southeast corner of the landfill with a clamshell dredge. Grading will be performed on this corner as necessary to enhance the efficiency of placement of spoils on the landfill. Dump trucks will be loaded with spoils from piles deposited by the clamshell with a loader. Spoils will be spread across the surface of the landfill by the dump trucks. To enhance the drying process, the spoils probably will need to be disced and spread with a dozer at least once prior to compaction. The spoils will be compacted once the moisture content of the spoils has decreased to the level specified to meet the compaction and permeability specifications. Details regarding compaction and other details regarding closure of the site will be provided to you in the revised closure plan.

Enclosure (1)