



STATE OF CALIFORNIA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
1111 JACKSON STREET, ROOM 6040
OAKLAND 94607

February 24, 1987

File No. 2199.9080A(GRF)

Mr. Alex Dong
Western Division
Naval Facilities Engineering Command
P. O. Box 727
San Bruno, CA 94066

Attention: Ms. Louise Lew

Dear Mr. Dong:

Subject: Alameda NAS (West Beach) Landfill

We have reviewed your letter of February 9, 1987 regarding your proposal to use clamshell dredged material to provide the landfill with the layer of cover, which you reported is expected to meet a permeability of 1×10^{-6} cm/sec or less. Based on your report on the boring logs and chemical data of the sediments to be dredged, this material seems adequate for use as final cover.

In consideration of the above, your proposal is acceptable. However, documentation on the adequacy of the dredge material as "impermeable" cover must be provided verifying its permeability and thickness (minimum of 1 foot). The quality control of the cover construction shall be under the direct supervision of a registered civil engineer or certified engineering geologist to assure that construction of the cover will meet applicable requirements and design specifications. Your report should include information on the verification tests and control plan procedures implemented such as:

- a. Methods for measuring cover thickness;
- b. The moisture/density/permeability test data supporting compaction method;
- c. Laboratory and field permeability test methods used to demonstrate physical analysis of a representative number of samples of material showing permeability of 1×10^{-6} cm/sec or less; indicate location and number of samples;
- d. Method used to test cover for shrink-swell potential;

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You are requested to provide us with written progress reports on implementation of the above procedures. The as-built construction drawings shall be submitted 45 days after completion of cover. Also, please advise us as to the starting date for the project and the estimated time for completion.

Please call Gloria Fulton of our office at (415) 464-0903, if you have any questions regarding this letter.

Sincerely,



ROGER B. JAMES
Executive Officer

cc: Commanding Officer
Naval Air Station
Alameda, CA 94501