

Cal/EPA

Department of
Pesticide Substances
Control

September 3, 1997

Pete Wilson
Governor

700 Heinz Avenue
Suite 200
Berkeley, CA
94710-2737

Commander
Department of the Navy
Engineering Field Activity, West
Naval Facilities Engineering Command
Attn: Mr. Stephen Chao, Project Manager
900 Commodore Drive, Bldg. 210
San Bruno, California 94066-2402

James M. Strock
Secretary for
Environmental
Protection

Dear Mr. Chao:

**SITE 1 LANDFILL CAP CONSTRUCTION QUALITY ASSURANCE,
MOFFETT FEDERAL AIRFIELD**

The purpose of this letter is to approve the use of the BAT permeameter test as an alternative test for hydraulic conductivity of the Palo Alto soil stockpile located at Site 1. A detailed discussion on this alternative test prepared by the California Integrated Waste Management Board (IWMB) is enclosed for your consideration. If you have any questions regarding the enclosure, please call Mr. Robert Anderson at 916-255-1301.

Sincerely,



C. Joseph Chou
Remedial Project Manager
Base Closure Unit
Office of Military Facilities

Enclosure

cc: Mr. Michael Rochette
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

Mr. Michael D. Gill
U.S. Environmental Protection Agency
Region IX, Mail Stop H-9-2
75 Hawthorne St.
San Francisco, California 94105

Mr. Glenn Young
California Integrated Waste Management Board
8800 Cal Center Drive
Sacramento, California 95826

Ms. Sandy Olliges
Assistant Chief
Safety, Health and Environmental Services
National Aeronautics and Space Administration
Ames Research Center
Moffett Field, CA 94035-1000

Mr. Peter Strauss
MHB Technical Associates
1723 Hamilton Avenue, Suite K
San Jose CA 95125

Mr. James G. McClure, Ph.D.
Moffett Field RAB, THE Committee
c/o Harding Lawson Associates
P.O. Box 6107
Novato, California 94948



Pete Wilson
Governor

August 28, 1997

Mr. Joseph Chou
Remedial Project Manager
Department of Toxic Substances Control
700 Heinz Avenue, Suite 200
Berkeley, California 94710-2737

California
Environmental
Protection
Agency

Integrated
Waste
Management
Board

8800 Cal Center Dr.
Sacramento CA 95826
(916) 255-2200

Subject: Moffett Federal Airfield California, Site 1 Landfill Cap
Construction Quality Assurance: Test Fill Pad for Barrier
Layer

Dear Mr. Chou:

The California Integrated Waste Management Board (IWMB) Closure and Remediation Branch approve the use of the BAT permeameter test as an alternative test for hydraulic conductivity in lieu of the Double Ring Infiltrometer (ASTM D 3385-88) listed in 27 CCR Section 20324(g)(3), formerly 14 CCR Section 17774(g). The reasons for this are as follows:

1. The City of Palo Alto Landfill (Yacht Harbor) soil test results from the Palo Alto soil stockpile located at Moffett Field are not as plastic and have a higher maximum dry density than Palo Alto Landfill results presented in the Harding Lawson report entitled "Results of Chemical and Physical Analysis on Sediment Samples Harbor Point Dredge Sediment Disposal Site, Palo Alto California", dated November 6, 1997. Test results of the soils within the Moffett Field stockpile indicate that the stockpiled soils may be of sufficient quality to be used for constructing the test pad using BAT permeameter tests with laboratory permeability tests instead of the Double Ring Infiltrometer. The ultimate goal of the test pad is to demonstrate the suitability of the stockpiled soils for use as a barrier layer for the landfill. I would like to point out that the permeability requirement for the barrier layer is 1×10^{-6} cm/sec as prescribed in 27 CCR 21090(a)(2), formerly 23 CCR Section 2581.
2. The Navy will perform, in addition to the BAT permeameter tests, five in-situ laboratory permeability tests (ASTM 5084) from the test fill pad and correlate the results with the BAT permeameter tests for use in verifying the results of the laboratory permeability tests performed on the final cover barrier layer.

If you have any questions, please call me at (916) 255-1301.

Sincerely,


Robert L. Anderson, C.E.G.
Closure and Remediation Branch
Permitting and Enforcement Division

cc: Mr. Michael Bessette-Rochette, San Francisco Bay Regional Water
Quality Control Board