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MEMORANDUM

TO: Barbara Hoditschek, Permitting, H&RMB, NMED
FROM: WPM William P. Moats, Mixed Waste, H&RMB, NMED
DATE: August 14, 1992
RE: Cannon Air Force Base, Landfill #5, Cell #3

At Stephanie Stoddard's request, I have been reviewing the landfill cover design for the closure of Landfill #5, Cell #3, Cannon Air Force Base (CAFB). The purpose of this memorandum is to provide additional comments on the U. S. Army Corps of Engineer's (COE) "Specifications for Landfill #5 Cell #3 Soil Cap", dated July 1992 (attached). Please note that I have reviewed only those sections related to the engineering design of the landfill cover system, specifically sections 02210 -Grading, 02215 - Plastic Filter Fabric, 02224 - Gas Vent System, and 02245 - Geocomposite Membrane Liner. At this time, CAFB and the NMED are in agreement with all significant aspects of the design.

The comments below have been transmitted to Mark Wittrock of the COE for his consideration.

**Comments on "Specifications for Landfill #5 Cell #3 Soil Cap",
Version Dated July 1992**

A. Section 02210 - Grading

- 1. Part 3.7 - Second sentence is confusing.
- 2. Part 3.9.1 - No text follows Part 3.9.1, thus, the heading should be deleted.

B. Section 02224 - Gas Vent System

- 1. Part 3.3 - The contractor should not scarify the underlying lift below the sand vent layer.
- 2. Part 3.3.3 - An 8" thick layer is not possible when the design thickness is 6". The COE probably meant to say that the loose thickness of the sand vent layer should not exceed 8". Also, all references to "bedding material" should be replaced by "sand vent material".
- 3. Part 3.5 - Tests for hydraulic conductivity (permeability) are not necessary for the gas vent layer.
- 4. Part 3.5.4 - Tests for liquid limits and plasticity index are not necessary for the gas vent layer.

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5. Part 3.5.6 - Tests for Atterburg Limits are not necessary for the gas vent layer.

C. Section 02245 - Geocomposite Membrane Liner (GML)

1. Part 1.4.1 - The acceptable saturated hydraulic conductivity of the high density polyethylene liner component of the GML should be specified.

2. Part 3.1 - Proper inspection of the GML subgrade will require that the GML manufacturer be present at the site prior to installation of the filter fabric.

D. Miscellaneous

1. Numerous typographical errors exist throughout the specifications. These are highlighted with a yellow marker in the attached specifications.

Attachments: "Specifications for Landfill #5 Cell #3 Soil Cap",
Version Dated July 1992

xc: Stephanie Stoddard, Permitting, H&RMB, NMED
John Parker, Mixed Waste, H&RMB, NMED

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