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DEPARTMENT OF THE NAVY  
NAVAL HOSPITAL  
CAMP LEJEUNE, NORTH CAROLINA 28542-5008



IN REPLY REFER TO

6260.32f  
89-472-32f  
17 May 89

From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune,  
NC 28542 (Attn: Chief, DRMO)

Subj: DRMO (LOT 203)

Ref: (a) AC/S, Facilities mtg of 24 Apr 89  
(b) 'Occupational Safety & Health Guidance Manual  
for Hazardous Waste Site Activities', NIOSH/OSHA/  
USCG/EPA, Pub. #85-115, October 1985  
(c) 'Characterization of Hazardous Waste Sites - A  
Methods Manual: Volume II. Available Sampling  
Methods' Second Edition. EPA 600/4-84-076

Encl: (1) Copy of Section 6 (Site Characterization) from  
reference (b)  
(2) Copy of Section 1, 2 and Appendices A, B, C, D, and  
E from reference (c)

1. During reference (a), the current status regarding soil  
contamination at Lot 203 was discussed. Significant findings to  
date and other concerns we have include:

a. Preliminary soil sample results indicate significant  
levels of lead, chromium, and mercury. No analysis of these  
samples was performed for organic compounds.

b. Hazard evaluation (assessment) procedures need to be  
conducted properly. The section from reference (b) on site  
characterization (enclosure (1)) should be reviewed. Also,  
reference (c) was obtained and the soil sampling methodologies  
reviewed. The pertinent extracts from this reference are  
provided in enclosure (2) and should be followed by either base  
or contract personnel who perform the sampling. You can obtain  
these references from the Superintendent of Documents,  
Washington, DC.

c. Review by the Occupational Health Physician of the  
medical records of current DRMO employees who worked at Lot 203  
revealed no significant physical abnormalities to date.

2. The following comments/recommendations are submitted:

a. Complete the preliminary assessment of Lot 203 by  
obtaining additional subsurface soil samples for organic analysis  
using the proper sampling methodology and sample submission  
procedures in enclosure (2). The samples should be analyzed for  
Pesticides, PCB's, Aromatic/Aliphatic Hydrocarbons, and pH. If  
any of the above results are positive, specific compound  
identification should be requested. Also, be sure to contact the

ENCL: (2)



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analytical laboratory for specific guidance on proper sample collection, preservation, storage, labeling and shipping methods.

b. Sample Quality Assurance/Quality Control needs to be considered. Specifically, quality assurance samples (background and duplicates) and document control (chain of custody) procedures should be developed as discussed in enclosure (2).

c. As discussed in references (a) and (b), the safety of personnel who collect the soil samples must be considered. These personnel should wear (at a minimum) "Level C" personal protective equipment during this type of work.

d. Upon completion of the preliminary assessment, please forward a copy of the soil sample results to us. Depending on these results, air sampling of personnel for exposure to lead, chromium, mercury and possibly organic compounds will be performed by us. During the interim, pursue utilization of a contractor for a detailed hazard assessment of Lot 203.

3. Point of contact on this subject is either LCDR Ellis or Ms. J. Stegall at extension 5707 or 2707.

A. B. WOOD  
By direction

Copy to:  
AC/S Facilities  
Base Safety