

06.01-08/02/96-01925

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management



James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

August 2, 1996

Commander, Atlantic Division
Naval Facilities Engineering Command
Code 1823

Attention: MCB Camp Lejeune, RPM
Ms. Katherine Landman
Norfolk, Virginia 23511-6287

Commanding General

Attention: AC/S, EMD/IRD
Marine Corps Base
PSC Box 20004
Camp Lejeune, NC 28542-0004

RE: Draft Record of Decision for Operable Unit 12 (Site
3), Marine Corps Base - Camp Lejeune.

Dear Ms. Landman:

Attached please find comments provided to the Superfund Section by
our sister agencies for the above referenced document. Please let
me know if you have any questions about this.

Sincerely,

A handwritten signature in cursive script that reads "Patrick Watters".

Patrick Watters
Environmental Engineer
NC Superfund Section

Attachment

cc: Preston Howard, DEHNR
Gena Townsend, US EPA Region IV
Neal Paul, MCB Camp Lejeune
Diane Rossi, DEHNR - Wilmington Regional Office

DIVISION OF WATER QUALITY

Groundwater Section

July 9, 1996

M E M O R A N D U M

TO: Arthur Mouberry

THROUGH: Rick Shiver *RSS*

FROM: Charles Stehman *CS*

SUBJECT: Comments-Draft Interim Remedial Action Record of Decision
Operable Unit No. 12, Site 3
DEM Project #96-14
Marine Corps Base-Camp Lejeune
Onslow County

Site Summary:

Site 3 refers to a five-acre area located within the Main side Supply and Storage areas at the Marine Corps base. The area itself is not currently used for open storage. The site previously operated as a creosote plant from 1951 to 1952 to supply treated lumber during the construction of the railroad. Preservatives (creosote) were used and stored on site. Initial soil samples obtained indicated the presence of PAH's, and three initial shallow monitoring wells installed showed some VOC's and PAH's. Fuel constituents (ethylbenzene and xylene) were also detected in surface and subsurface soil). This may have been due to the practice of fuel added to creosote as a thinner.

Air Quality Comments:

No comments were received from the Air Quality Section.

Water Quality Comments:

No comments were received from the Water Quality Section.

Groundwater Comments:

The extent of the soil contamination at the site would appear to be sufficiently delineated. The corrective action proposal for soil removal and treatment appears to be acceptable.

The extent of groundwater contamination at the site needs further delineation. Based on data and maps provided, there are two areas of concern. Data provided for samples obtained from deep well 03-MW02DW showed contamination above State standards in one out of three samples. Further information should be provided to clarify if the results were an anomaly, or laboratory error. While soil borings obtained outside the dirt loop road do not indicate

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contamination due west of wells 03-MW02, 03-MW21W, and 03-MW02DW, the three wells indicate that there are exceedances of Groundwater Standards, and at least two additional wells (one deep and one shallow) should be installed due west of the existing wells, outside the dirt loop road, (please see map for recommended well locations) to properly define the extent of groundwater contamination in the down gradient direction. Maps and data also show that there is groundwater contamination in well 03-MW06. Because there are no other wells located in this vicinity, three additional wells should be installed to properly delineate this area (please see map for recommended well locations).

Because the deep well 03-MW02DW intersects the aquifer that is the main aquifer for water supply at the base, **four consecutive** sampling events showing contaminants below State standards should be obtained prior to disregarding an option for pump and treat.

Further investigation will determine if the proposed corrective action for groundwater will be acceptable. Should groundwater contamination show to be at high levels or in the deeper aquifer, it is recommended that at least one recovery well be installed.

If you have questions, please do not hesitate to contact Diane Rossi or myself at (919) 395-3900.

RSS/CFS/CDR/gjg

cc: ~~Patrick Walters~~
WiRO-GWS

s:\gws\diane\op.12