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NCBC GULFPORT
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LETTER REGARDING MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
COMMENTS ON THE SITE 7 DIOXIN GROUNDWATER INVESTIGATION NCBC GULFPORT
MS
9/12/2000
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY



STATE OF MISSISSIPPI
DAVID RONALD MUSGROVE, GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

12 September 2000

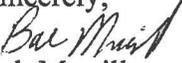
Art Conrad
Naval Facilities Engineering Command
Southern Division
2155 Eagle Drive
P.O. Box 190010
North Charleston, South Carolina 29419-9010

Re: Site 7 Dioxin Groundwater Investigation, Naval Construction Battalion Center, Gulfport, Mississippi, July 2000.

The Mississippi Office of Pollution Control has reviewed the above referenced document and offers the following comments and suggestions.

1. Groundwater flow direction at Site 7 should be well established. Groundwater flow direction at Site 7 does not appear to be well defined, as no potentiometric map is shown for the site in this report. The Groundwater Monitoring Report (Phase I and II, December 1999 Figure 4-1) does not have this area contoured but indicates a general north westward flow direction for proximal areas of the base.
2. Dichloromethane occurrences need to be characterized. Four Direct Push Technology (DPT) temporary wells contained elevated concentrations of dichloromethane (DPT 1 @ 270 ppb, DPT 2 @ 53 ppb, DPT 4 @ 140 ppb, and DPT 7 @ 5,200 ppb). No occurrences were reported from the three existing monitor wells (GPT 07 01, GPT 02 03 and GPT 02 04) so accurate characterization may not be possible from these wells due to location and particular intervals screened. Well GPT 07 01 appears to be the only well located downgradient of any probable disposal areas as indicated on figures 3 and 5. Existing permanent well GPT 02 04 appears to be up gradient and associated with Site 2. Well GPT 02 03 is about 640 feet north of disposal areas of Site 7 as indicated by its location with respect to magnetic anomalies as shown on Figure 3. In order to obtain groundwater samples downgradient of disposal areas, additional wells would need to be installed or DPT sampling should be utilized for sampling within the same hydrostratigraphic horizon as that screened in well GPT 07 01. Dioxin analyses should be conducted on samples from these downgradient wells in order to demonstrate the contention that previous elevated dioxin results from GPT 07 01 were caused by spurious interference from another compound.

Please feel free to contact me if I can be of further assistance.

Sincerely,

Bob Merrill

cc. James Barksdale, USEPA