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MCRD PARRIS ISLAND
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MEMORANDUM REGARDING SOUTH CAROLINA DEPARTMENT OF HEALTH AND
ENVIRONMENTAL CONTROL COMMENTS ON DRAFT RESOURCE CONSERVATION AND
RECOVERY ACT FACILITY INVESTIGATION FOR SITE 12 MCRD PARRIS ISLAND SC
2/26/2001
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

MEMORANDUM

TO: Jerry Stamps, Engineering Associate
Corrective Action Engineering Section
Division of Hazardous and Infectious Waste Management
Bureau of Land and Waste Management

FROM: Donald C. Hargrove, Hydrogeologist
Hazardous Waste Section
Division of Hydrogeology
Bureau of Land and Waste Management

DATE: 26 February, 2001

RE: Parris Island Marine Corps Recruit Depot (MCRD)
Parris Island, South Carolina
Beaufort County
SC6 170 022 767

DRAFT Remedial Investigation/RCRA Facilities Investigation for
Site 12/SWMU 10 – Jericho Island Disposal Area
(October, 2000)

The Division of Hydrogeology has reviewed the above referenced document. This document was received on 15 November, 2000. It provides a physical description of SWMU 10 that includes the known history this SWMU. It briefly describes previous studies performed at this SWMU, and presents analytical data generated during this current RI/RFI.

This document was reviewed with respect to R.61-79 of the South Carolina Hazardous Waste Management Regulations (SCHWMR), and appropriate guidance documents.

The Division of Hydrogeology found this report technically inadequate. This document should be revised to incorporate the following comments, and then resubmitted for review/approval:

- 1) Section 3.2.8, Tidal Influence Study: The observations with respect to the tidal influence upon watertable levels in the monitoring wells are reported, but this section lacks any real discussion of the meaning or usefulness of this data. Additionally, there's no discussion on the timing of the groundwater sampling with respect to tidal levels. Please revise the text to expound upon this topic.

- 2) Monitoring well water levels are reported in Table 3-6, but there are no figures showing groundwater contours or flow directions for the shallow and deeper components of the surficial aquifer at SWMU-10. Please revise the document to include figures that show the groundwater contours, and revise the current figures to indicate the groundwater flow for the shallow and deeper components of the surficial aquifer. Depending on the results of these figures, additional discussion might be necessary concerning how groundwater flows at SWMU-10. This could be tied in to the response with Comment 1.
- 3) There is no discussion on the proximity of drinking water wells near SWMU-10. A survey of the residences in this area should have already been performed to identify drinking water wells (public or private) in the vicinity of SWMU-10. The results of this survey should be reported in this document.
- 4) There is no discussion about the drinking water well that is currently located on SWMU-10. This well should be sampled and if clean, abandoned per R.61-71 of the South Carolina Well Standards and Regulations.
- 5) The base boundary is not shown on any of the figures. Please revise the figures to indicate the location of the base boundary.
- 6) The figures do not indicate the presence of any residences in the area of SWMU-10 even though there are residences located adjacent to this area. Any residences that are located within the area covered by the figures should be noted on said figures, including docks or piers that would indicate recreational use of the tidal creeks nearby. Please revise the figures accordingly.

If you have any questions regarding these comments, please call me at (803) 896-4033.