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MCRD PARRIS ISLAND  
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LETTER OF TRANSMITTAL AND SOUTH CAROLINA DEPARTMENT OF HEALTH AND  
ENVIRONMENTAL CONTROL COMMENTS ON DRAFT REMEDIAL INVESTIGATION WORK  
PLAN FOR SITE 1 INCINERATOR LANDFILL MCRD PARRIS ISLAND SC  
11/21/1996  
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman  
William M. Hull, Jr., MD, Vice Chairman  
Roger Leaks, Jr., Secretary

Richard E. Jabbour, DDS  
Cyndi C. Mosteller  
Brian K. Smith  
Rodney L. Grandy

Promoting Health, Protecting the Environment

**CERTIFIED MAIL**

November 21, 1996

Commanding General/MCRD/ERR  
ATTN.: AC/SI&L (NREAO)  
P.O. Box 19001  
Parris Island, SC 29905-9001

RE: Review of Draft Remedial Investigation Work Plan  
Site 1 - Incinerator Landfill  
Marine Corps Recruit Depot, dated September 1996  
Parris Island  
Beaufort County  
SC6 170 022 767

Dear Commanding General:

The Hazardous Waste Permitting Section and the Hydrogeology Section of the South Carolina Department of Health and Environmental Control (Department) have reviewed the MCRD's Draft Remedial Investigation Work Plan for Site 1 - Incinerator Landfill, dated September 1996.

Based on this review the Department has determined that the MCRD's Work Plan needs to be revised by responding to the attached comments, provided by the Hazardous Waste Permitting Section and the Hydrogeology Section (memo Hargrove to Tapia). The response to comments should be in the form of a revised Work Plan or revised pages (with filing instructions included) to be inserted into the September 1996 document.

Should you have any questions regarding this issue, please contact me at (803) 896-4179 or Don Hargrove at (803) 896-4033.

Sincerely,

Johnny Tapia P., Environmental Engineer Associate  
Hazardous Waste Permitting Section  
Bureau of Solid & Hazardous Waste Management

**Attachments**

cc: Don Hargrove, Hydrogeology  
Mr. Russell Berry, SCDHEC-Low County  
Allison Humphries, USEPA Region IV  
Scott Glass, Southern Division

## MEMORANDUM

15 November 1996

TO: Johnny Tapia, Environmental Engineering Associate  
Hazardous Waste Permitting Section  
Division of Hazardous and Infectious Waste Management  
Bureau of Solid and Hazardous Waste Management

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

RE: Marine Corps Recruit Depot (MCRD)  
Beaufort County  
SC6 170 022 767

Draft Remedial Investigation Work Plan  
for Site 1-Incinerator Landfill

The Division of Hydrogeology has reviewed the Draft Remedial Investigation Work Plan for Site 1-Incinerator Landfill dated 5 September 1996, which was received on 9 September 1996. This work plan is intended to be used in conjunction with the Master Work Plan for MCRD, Parris Island (Volumes I through III). It includes the site-specific information to be used for sampling at Solid Waste Management Unit (SWMU) 1. This site-specific work plan identifies the project scope and objectives, summarizes background information and existing data, and presents the proposed sampling. This work plan was reviewed with respect to R.61-79 of the SCHWMR, and the appropriate guidance documents. This document should be revised in accordance with these specific comments and resubmitted:

- 1) Figure 1-1 Depot Location Map: Remove "Site 1 - Incinerator Landfill" from title.
- 2) Section 2.2.1 Surficial Aquifer: Typographical error: "Pamlico" should be "Pamplico".
- 3) Section 2.2.2 Confining Layer: fifth sentence: This sentence is vague. It implies that the depth to the top of the Hawthorn Formation is 70' below ground level while a previous sentence describes the top of the Hawthorn a 30' below msl. Please clarify.

- 4) **Figure 7-1 Proposed SW/Sediment sample Locations:** The approximate locations for the upgradient samples should be specified on this figure.

Section 3.3 describes surficial groundwater flow in a radial pattern towards the tidal stream. If this is the case, the upgradient sample locations can be approximated.

Section 4.2.3.4 Water Level Measurements describes a plan to measure groundwater levels during low and high tides and determine groundwater flow directions in the surficial aquifer. If further groundwater investigation is necessary before choosing upgradient sample locations, then Section 6.0 Field Operations should be revised to include a methodology describing the chronology of events pertaining to the characterization of groundwater flow followed by the determination of upgradient sample locations.

Please revise the text and figures for the appropriate scenario.

- 5) **Figure 7-2 Proposed Soil Sample Locations:** See comment 4.
- 6) **All figures showing well locations or proposed well locations, proposed sample locations, or groundwater contamination plumes** should include arrows indicating groundwater flow directions from the latest data. Please revise.

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

From:

DHEC

Hazardous Waste Permitting Section

**COMMENTS ON DRAFT REMEDIAL INVESTIGATION WORK PLAN  
FOR SITE 1 - INCINERATOR LANDFILL  
FOR MARINE CORPS RECRUIT DEPOT  
PARRIS ISLAND, SOUTH CAROLINA**

1. Section 2.2.3:

This section confirms the existence of a public water supply well within 1/4 of a mile radius of the MCRD. This public supply well should be identified on either Figure 2.1 or figure 2.2.

2. Page 4-6, Table 4-2:

Footnote (4) says that three surface soil samples will be collected upgradient of Site 1 for background determination, and ten surface soil samples will be collected at specified soil boring locations. This footnote disagrees with what is shown on table 4-2. This table proposes the collection of fourteen surface soil samples (including four for background determination). This table should be revised to clarify the discrepancy.

3. Section 6.2, Site Restoration:

This paragraph states "the site will be restored to its original condition prior to investigation activities." It should be explained what "original condition" means, and why the site will be restored before to start investigation activities and then will be disturbed again to do the investigation. Thparagraphaph is vague and should be more specific and/or correct the proposed approach.

4. Table 7-1:

This comment makes reference to page 7-4, where the identification of all soil sampling and boring locations is described. It seems that soil boring # 3 has been mislabeled as soil boring # 2 sampling locations. For example, PAI-01-SB02 should be labeled PAI-01-SB03. Table 7-1 should be corrected accordingly.