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LETTER OF TRANSMITTAL AND SOUTH CAROLINA DEPARTMENT OF HEALTH AND  
ENVIRONMENTAL CONTROL MONITORING WELL APPROVAL FOR PERMANENT AND  
TEMPORARY WELLS AT SITE 45 MCRD PARRIS ISLAND SC

8/10/2007

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



2600 Bull Street  
Columbia, SC 29201-1708

August 10, 2007

FIRST CLASS MAIL

United States Marine Corps Recruit Depot  
Commanding Officer  
Attention: Timothy J. Harrington, NREAO  
P.O. Box 5028  
Parris Island, SC 29905-9001

RE: Marine Corps Recruit Depot (MCRD)  
Parris Island, South Carolina  
SC 6170022762

Monitoring Well Request  
Dated August 6, 2007  
SWMU 45

Dear Mr. Harrington:

The above referenced request has been reviewed with respect to R.61-71 of the South Carolina Well Standards and Regulations and other appropriate regulation/guidance. This request is for the installation of 3 permanent shallow monitoring wells and up to 6 shallow temporary monitoring wells to evaluate groundwater quality at various locations at SWMU 45.

All permanent monitoring wells will be installed in the surficial aquifer, will have 0.01 inch slotted screens and will be installed by hollow stem auger drilling methods. These permanent monitoring wells will be finished as flush mounted wells. The shallow permanent monitoring wells will be installed with 5-foot screens and are anticipated to be completed to a maximum depth of approximately 16 feet bgs.

All temporary monitoring wells/soil borings will be installed in the surficial aquifer and will be installed by direct push technology (DPT) drilling methods. The temporary wells are expected to be completed to a maximum depth of 15 feet below ground surface.

All temporary monitoring wells/soil borings and must be grouted upon termination of lithologic studies and/or sampling starting from the bottom of the boring and continuously pressure grouted to the ground surface with 20% high solids sodium bentonite grout through a tremie pipe.

All sampling should follow the methods described in the November 2001 EPA EISOPQAM.

DD070606.MWD

The boring and/or geologist logs for each monitoring well should be submitted to Joe Bowers, P.G., Manager, South Carolina Department of Health and Environmental Control, Bureau of Land & Waste Management, within 30 days of completion of the last bore hole.

All well construction and sampling derived wastes, including but not limited to, drill cuttings, drilling fluids, development and purge water, must be managed properly and in accordance with all applicable state and federal requirements. If containerized, each vessel shall be clearly labeled with regard to contents, source, and date of activity.

Field equipment (including sampling probes) must be decontaminated by steam cleaning, or other approved method, before use and between sampling locations. Well screens and casing must be decontaminated before installation or must be certified clean by the manufacturer.

Attached, please find a Monitoring Well Approval Form and a copy of the proposed monitoring well locations. A copy of this monitoring well approval form should be on site during drilling operations.

The April 26, 2002 South Carolina Well Standards Regulation R.61-71 apply to the monitoring well installations for the above referenced sites.

Please be advised, additional assessment may be required at this site. Should there be any questions, please contact me at (803) 896-4194 or [danielmw@dhec.sc.gov](mailto:danielmw@dhec.sc.gov).

Please note that a DHEC 1903 form must be completed for all abandoned wells and abandonment should follow all applicable requirements of R.61-71.

Respectfully,



Michael W. Danielsen, Hydrogeologist  
RCRA Federal Facilities Hydrogeology Section  
Division of Hydrogeology  
Bureau of Land and Waste Management

Enclosure

MWA: HW-07-039

CC: Don Vorblesky, USGS  
Penny Cornett, Low-Country EQC  
Meridith Amick, Corrective Action Engineering Section  
Joe Bowers P.G., Manager, Division of Hydrogeology  
Art Sanford, NAVFAC SE, Charleston  
Mark Sladic, TetraTech Nus, Inc.  
Lila Llamas, USEPA, Region 4, Sam Nunn AFC, 61 Forsyth Street, Atlanta, GA 30303-3104  
MCRD Bureau File #50492  
Division of Hydrogeology Monitoring Well File



2600 Bull Street  
Columbia, SC 29201-1708

### Monitoring Well Approval for Permanent and Temporary Wells

**Approval is hereby granted to:** Tim Harrington  
Marine Corps Recruit Depot  
EPA ID # SC6170022762  
Beaufort County

**Facility:** Marine Corps Recruit Depot  
SWMU 45  
Beaufort County

This approval is for the installation of 3 shallow permanent and up to 6 shallow temporary monitoring wells. The monitoring wells are to be installed in the locations as proposed in the construction details provided in the August 6, 2007 monitoring well request (*Vroblesky to Bowers*), and the attached figure. The monitoring wells are to be installed following all of the applicable requirements of R.61-71.

**Please note that R.61-71 requires the following:**

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to Joe Bowers, P.G., Manager, South Carolina Department of Health and Environmental Control, Bureau of Land & Waste Management within 30 days after well completion/abandonment. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
3. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.

4. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c.
5. All permanent monitoring wells shall be labeled as required by R.61-71.H.2.c.
6. If any of the information provided to the Department changes, Joe Bowers (Division of Hydrogeology) and Amanda Flake (SCDHEC Low-Country District Office) shall be notified a minimum of twenty-four hours prior to well construction as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002.

**Date of Issuance:** 8-10-2007

**Approval #:** HW-07-039

A handwritten signature in black ink, reading "Michael W. Danielsen". The signature is written in a cursive style and is followed by a horizontal line.

Michael W. Danielsen, Hydrogeologist  
RCRA Federal Facilities Hydrogeology Section  
Division of Hydrogeology  
Bureau of Land & Waste Management

