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MCRD PARRIS ISLAND  
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LETTER AND THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL  
CONTROL APPROVAL OF THE MONITORING WELL INSTALLATION REQUEST FOR SITE  
8A, SITE 54, AND SITE 35 MCRD PARRIS ISLAND SC

07/01/2014

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



Catherine B. Templeton, Director

*Promoting and protecting the health of the public and the environment*

July 1, 2014

Commanding Officer  
NAVFAC Southeast  
ATTN: Mr. Dan Owens  
PO Box 30  
Ajax Street North, Bldg 135  
Jacksonville, Florida 32212

and

Commanding General  
NREAO  
ATTN: Mr. Tim Harrington  
PO Box 5028  
Parris Island, SC 29905

RE: Approval of Monitoring Well Installation Request for

- Site 8A received June 23, 2014
- Site 54 received June 23, 2014
- Site 35 received June 24, 2014

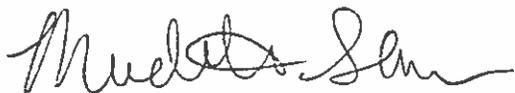
Marine Corps Recruit Depot (MCRD)  
Parris Island  
SC6 170 022 762

Dear Mr. Owens and Mr. Harrington:

The Division of Waste Management of the South Carolina Department of Health and Environmental Control (Department) received the above referenced requests on June 23, 2014 and June 24, 2014, respectively. Based on the review, the Department approves the request. Please see the attached hydrogeology memoranda.

The Department's review is based on the information presented by MCRD to date; any information found to be contradictory may require further action. If you have any questions regarding this issue, please contact me at (803) 898-0368.

Sincerely,

A handwritten signature in black ink, appearing to read "Meredith Amick". The signature is fluid and cursive, with the first name being more prominent.

Meredith Amick, P.E., Environmental Engineer  
DOD Corrective Action Section  
Division of Waste Management

cc:

Lila Llamas, EPA Region 4  
Annie Gerry, Hydrogeology  
Priscilla Wendt, SCDNR

Russell Berry, EQC Region 8, Beaufort  
Peggy Churchill, TtNUS



Catherine B. Templeton, Director

*Promoting and protecting the health of the public and the environment*

**MEMORANDUM**

**TO:** Meredith Amick, P.E.  
Department of Defense Corrective Action Section  
Division of Waste Management  
Bureau of Land and Waste Management

**FROM:** Annie M. Gerry, Hydrogeologist *AG*  
Department of Defense Corrective Action Section  
Division of Waste Management  
Bureau of Land and Waste Management

**DATE:** June 30, 2014

**RE:** Marine Corps Recruit Depot  
SC6 170 022 762

Review of Site 8A Permit Request for Installation of Monitoring Wells at Marine Corps Recruit Depot (MCRD) Parris Island, South Carolina dated June 23, 2014

The above referenced request for approval to install temporary monitoring wells has been reviewed with respect to the conditions of the Federal Facility Agreement (FFA) that the Department entered into with the Navy and EPA Region 4 in January 2005, in addition to the SC Well Standards. Three soil borings which will be converted to temporary monitoring wells and one temporary monitoring well are requested to be installed to delineate potential contamination at Site 8A. The Department acknowledges that the third soil boring, which will later be converted to a temporary monitoring well, might not be installed due to concern of location of HVAC equipment and other utilities.

The four temporary monitoring wells are approved for installation. Attached please find a temporary monitoring well approval form with additional conditions for installation.

Should you have any questions regarding this memo, please contact me via email at [GerryAM@dhec.sc.gov](mailto:GerryAM@dhec.sc.gov) or by phone at (803) 898-0359.

## Temporary Monitoring Well Approval

**Date of Issuance:** June 30, 2014

**Approval is hereby granted to:** Commanding General

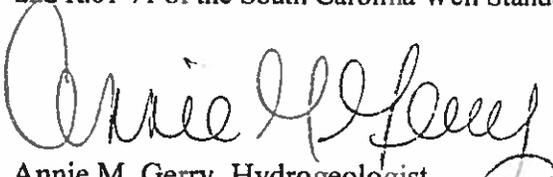
**Facility:** Marine Corp Recruit Depot  
Beaufort, South Carolina  
SC6 170 022 762  
Beaufort County

This approval is for the installation of four temporary groundwater monitoring wells located at Site 8A. The monitoring wells are to be installed in the locations as illustrated on the updated Figure 17-1 that was sent via email by Peggy Churchill on 6/24/2014 and per the proposed construction details provided in the June 2014 (Tate to Gerry) correspondence. The proposed drilling date is 7/7/2014. These monitoring wells are to be installed following all of the applicable requirements of R.61-71 of the South Carolina Well Standards.

**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. All wells shall be properly developed per R.61-71.H.2.d. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 author of this approval 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. If any of the information provided to the Department changes, including the proposed drilling date, Annie Gerry (803-898-0359) shall be notified at least twenty-four (24) 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, dated April 26, 2002.



Annie M. Gerry, Hydrogeologist  
Department of Defense Corrective Action Section  
Division of Waste Management



Catherine B. Templeton, Director

*Promoting and protecting the health of the public and the environment*

**MEMORANDUM**

**TO:** Meredith Amick, P.E.  
Department of Defense Corrective Action Section  
Division of Waste Management  
Bureau of Land and Waste Management

**FROM:** Annie M. Gerry, Hydrogeologist   
Department of Defense Corrective Action Section  
Division of Waste Management  
Bureau of Land and Waste Management

**DATE:** June 30, 2014

**RE:** Marine Corps Recruit Depot  
SC6 170 022 762

Review Operable Unit 12 (Site 54) Permit Request for Installation of Twelve Monitoring Wells at Marine Corps Recruit Depot (MCRD) Parris Island, South Carolina dated June 23, 2014

The above referenced request for approval to install temporary monitoring wells has been reviewed with respect to the conditions of the Federal Facility Agreement (FFA) that the Department entered into with the Navy and EPA Region 4 in January 2005, in addition to the SC Well Standards. Direct Push Technology (DPT) will be used to install twelve monitoring wells at Site 54 in an effort to delineate potential contamination. Nine of the monitoring wells will be installed 15 ft below ground surface (bgs) in the upper surficial aquifer and three will be installed 25 ft bgs in the lower surficial aquifer.

The twelve temporary monitoring wells are approved for installation. Attached please find a temporary monitoring well approval form with additional conditions for installation.

Should you have any questions regarding this memo, please contact me via email at [GerryAM@dhec.sc.gov](mailto:GerryAM@dhec.sc.gov) or by phone at (803) 898-0359.

## Temporary Monitoring Well Approval

**Date of Issuance:** June 30, 2014

**Approval is hereby granted to:** Commanding General

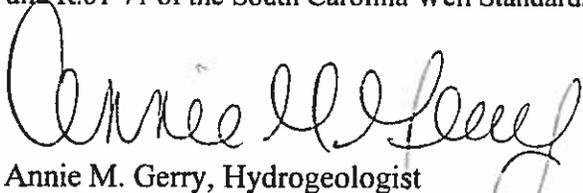
**Facility:** Marine Corp Recruit Depot  
Beaufort, South Carolina  
SC6 170 022 762  
Beaufort County

This approval is for the installation of twelve temporary groundwater monitoring wells located at Site 54 (OU 12). The monitoring wells are to be installed in the locations as illustrated on Figure 17-2 and per the proposed construction details provided in the June 2014 (Tate to Gerry) correspondence. The proposed drilling date is 7/7/2014. These monitoring wells are to be installed following all of the applicable requirements of R.61-71 of the South Carolina Well Standards.

**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. All wells shall be properly developed per R.61-71.H.2.d. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 author of this approval 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. If any of the information provided to the Department changes, including the proposed drilling date, Annie Gerry (803-898-0359) shall be notified at least twenty-four (24) 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, dated April 26, 2002.



Annie M. Gerry, Hydrogeologist  
Department of Defense Corrective Action Section  
Division of Waste Management



Catherine B. Templeton, Director

*Promoting and protecting the health of the public and the environment*

**MEMORANDUM**

**TO:** Meredith Amick, P.E.  
Department of Defense Corrective Action Section  
Division of Waste Management  
Bureau of Land and Waste Management

**FROM:** Annie M. Gerry, Hydrogeologist   
Department of Defense Corrective Action Section  
Division of Waste Management  
Bureau of Land and Waste Management

**DATE:** June 30, 2014

**RE:** Marine Corps Recruit Depot  
SC6 170 022 762

Review of Site 35 Permit Request for Installation of Seven Monitoring Wells at Marine Corps Recruit Depot (MCRD) Parris Island, South Carolina dated June 24, 2014

The above referenced request for approval to install permanent monitoring wells has been reviewed with respect to the conditions of the Federal Facility Agreement (FFA) that the Department entered into with the Navy and EPA Region 4 in January 2005, in addition to the SC Well Standards. The seven monitoring wells are to be installed in an effort to evaluate shallow groundwater at Site 35.

The seven permanent monitoring wells are approved for installation. Attached please find a temporary monitoring well approval form with additional conditions for installation.

Should you have any questions regarding this memo, please contact me via email at [GerryAM@dhec.sc.gov](mailto:GerryAM@dhec.sc.gov) or by phone at (803) 898-0359.

## Permanent Monitoring Well Approval

**Date of Issuance:** June 30, 2014

**Approval is hereby granted to:** Commanding General

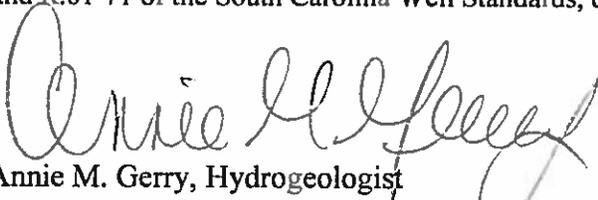
**Facility:** Marine Corp Recruit Depot  
Beaufort, South Carolina  
SC6 170 022 762  
Beaufort County

This approval is for the installation of seven permanent groundwater monitoring wells located at Site 35. The monitoring wells are to be installed in the locations as illustrated Figure 17-and per the proposed construction details provided in the June 2014 (Tate to Gerry) correspondence. The proposed drilling date is 7/21/2014. These monitoring wells are to be installed following all of the applicable requirements of R.61-71 of the South Carolina Well Standards.

**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. All wells shall be properly developed per R.61-71.H.2.d. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 author of this approval 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 monitoring wells shall be labeled as required by R.61-71.H.2.c.
5. If any of the information provided to the Department changes, including the proposed drilling date, Annie Gerry (803-898-0359) shall be notified at least twenty-four (24) 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, dated April 26, 2002.



Annie M. Gerry, Hydrogeologist  
Department of Defense Corrective Action Section  
Division of Waste Management