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MCRD PARRIS ISLAND
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LETTER REGARDING SOUTH CAROLINA DEPARTMENT OF HEALTH AND
ENVIRONMENTAL CONTROL APPROVAL OF THE IN-SITU CHEMICAL OXIDATION PILOT
STUDY WORK PLAN AND WELL REQUEST FOR SITE 45 MCRD PARRIS ISLAND SC
9/26/2012
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

September 26, 2012

Commanding Officer
NAVFAC Southeast
ATTN: Mr. Charles Cook, P.E.
PO Box 30
Ajax Street North, Bldg 135
Jacksonville, Florida 32212

and

Commanding General
NREAO
ATTN: Ms. Lisa Donohoe
PO Box 5028
Parris Island, SC 29905

RE: Approval of Site 45: In-Situ Chemical Oxidation Pilot Study Work Plan and Well Request
Marine Corp Recruit Depot (MCRD)
Parris Island
SC6 170 022 762

Dear Mr. Cook and Ms. Donohoe:

The Division of Waste Management of the South Carolina Department of Health and Environmental Control (Department) completed the review of the above work plan and well request received September 11, 2012. The Department reviewed the document with respect to applicable sections of the South Carolina Hazardous Waste Management Regulations (SCHWMR). Based on this review the Department approves the work plan and request. Please see the attached approval. Please note at this time the Department is also reviewing the Proposed Plan for Site 45 in order to choose a remedy.

The Department is approving this Pilot Study to move the process of site cleanup forward; however, in the ongoing CERCLA documentation process (i.e. PP, ROD, RD, etc), the Department expects up to date information on this Pilot Study.

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) 896-4218.

Sincerely,

A handwritten signature in black ink, appearing to read "Meredith Amick", followed by a long horizontal line extending to the right.

Meredith Amick, P.E., Environmental Engineer
Corrective Action Engineering 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

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MEMORANDUM

TO: Meredith Amick, P.E., Engineering Associate
Corrective Action Engineering Section
Division of Waste Management
Bureau of Land and Waste Management

FROM: Annie M. Gerry, Hydrogeologist 
Federal Facilities Groundwater Section
Division of Waste Management
Bureau of Land and Waste Management

DATE: September 26, 2012

RE: Marine Corps Recruit Depot
SC6 170 022 762

**Review of Parris Island Marine Corp Recruit Depot, Site 45: In-Situ
Chemical Oxidation Pilot Study Work Plan, dated September 11, 2012**

The above referenced document has been reviewed with respect to the requirements of R.61-79 of the South Carolina Hazardous Waste Management Regulations and R.61-71 of the South Carolina Well Standards, dated April 26, 2002. The Environmental Protection Agency (EPA) is requesting approval from the Department to install twenty-four (24) Non-Standard Monitoring wells (micro-wells) to assess the fate and transport of oxidant and contaminants during this pilot study in the southern plume at Site 45.

The twenty-four non-standard micro wells are approved for installation. The Department considers these micro-wells non-standard since the natural formation will be allowed to collapse around the screen zone. In addition, a cement-bentonite seal will be used above the screened zone rather than pure bentonite. Four (4) transects will include three monitoring clusters with two micro-wells per cluster (total of 24) consisting of an insertion of a 1 1/4" GeoProbe rod to depth. It is anticipated that the micro-wells will be installed 6.5-8.5' and 10.5-12.25' below ground surface on 10/15/2012.

All wells must be installed and abandoned by a S.C. certified well driller in accordance with South Carolina Well Standards R.61-71. Attached please find a permanent monitoring well approval form for these 24 non-standard micro-wells with additional conditions for installation.

Should you have any questions regarding this well approval, you may contact me at (803) 896-4018.

Attachment: Well Approval: HW-12-038

File # 50492

Permanent Monitoring Well Approval

Date of Issuance: September 26, 2012

Approval #: HW-12-038

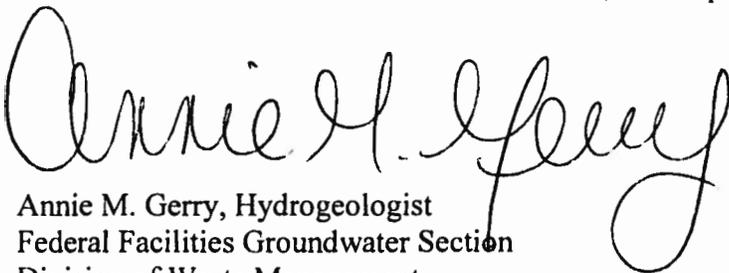
Approval is hereby granted to: **Lisa Donohoe**
Facility: **Marine Corps Recruit Depot**
SC6 170 022 762
Beaufort County

This approval is for the installation of twenty-four (24) permanent, non standard micro wells. The wells are to be installed in the locations as illustrated on Figure 1 and per the proposed construction details provided in the In- Situ Chemical Oxidation Pilot Study Work Plan, dated September 11, 2012. The proposed drilling date is 10/15/2012. These 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. 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 (803-896-4018) 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
Federal Facilities Groundwater Section
Division of Waste Management
Bureau of Waste Management

File # 50492