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REQUEST FOR INSTALLATION OF GROUNDWATER MONITORING WELL AREA OF  
CONCERN 633 (AOC 633) ZONE G CNC CHARLESTON SC  
8/29/2002  
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL



2600 Bull Street  
Columbia, SC 29201-1708

29 August 2002

Ms. Amy Daniell  
Caretakers Site Office  
1895 Avenue F  
Charleston Naval Base  
North Charleston, SC 29405

RE: Naval Base Charleston (CNAV)  
Charleston, South Carolina  
SC0-170-022-560

Request for the Installation of Groundwater Monitoring Wells at AOC 633, Zone G  
Revision 0, Dated 27 August 2002 from Elliott to Bergstrand; Received 29 August 2002

Dear Ms. Daniell:

The above referenced request has been reviewed with respect to R.61-79.264 Subpart F of the South Carolina Hazardous Waste Management Regulations and Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations.

This request is for the construction of four shallow permanent monitoring wells designated in accordance with the construction plans and specifications outlined in the Groundwater Sampling and Analysis Plan for AOC 633, Zone G, dated August 22, 2002. These wells will be constructed as flush mount wells within the surficial aquifer to an approximate maximum depth of fourteen (14) feet below land surface to determine direction of groundwater flow and to monitor groundwater quality. These wells will be identified as G633GW001, G633GW002, G633GW003 and G633GW004. Laboratory analysis of groundwater will include polychlorinated biphenyls, volatile and semi-volatile organic compounds to include dichlorobenzenes, and metals.

Please note, the monitoring well record shall be submitted to the Department within 30 days after installation of the last well. The record should include latitude and longitude, surveyed elevations, geologist logs, and actual construction details for each well. The collection of GPS data is encouraged.

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Central File 50484

Attached, please find Figure 1 depicting the proposed well locations and Monitoring Well Approval HW-02-088. A copy of the well approval form and this letter should be on site during drilling operations. Additional assessment may be required at AOC 633. Please contact me at 803.896.4019 or Mr. Jerry Stamps at 803.896.4285 if there are any questions.

Sincerely,



Jo Cherie Overcash, Hydrogeologist  
RCRA Hydrogeology Section  
Division of Hydrogeology  
Bureau of Land and Waste Management

Attachments: Monitoring Well Approval HW-02-088  
Figure 1 Proposed Monitoring Well Locations AOC 633, Zone G

CC: Tony Hunt, PE, SOUTHDIV  
Rob Harrell, PE, SOUTHDIV  
Dean Williamson, PE, CH2M-Jones  
Gary Foster, PE, CH2M-Jones  
Bill Elliott, P.G., CH2M-Hill, P.O. Box 147009, Gainesville, FL 32608-3928  
Tom Beisel, CH2M-Hill, 115 Perimeter Center Place NE., Suite 700, Atlanta GA 30346-1278  
Dann Spariosu, PhD, EPA Region 4  
Jerry Stamps, Waste Management, BLWM  
Paul Bergstrand, Hydrogeology, BLWM  
Rick Richter, Trident EQC District

## Well Installation Approval

Approval is hereby granted to: Ms. Daniell of the Naval Base Charleston for

Monitoring Wells at AOC 633, Zone G  
Naval Base Charleston  
Charleston County

**Date of Issue: 29 August 2002**  
**Approval Number: HW-02-088**

for the construction of four shallow permanent monitoring wells designated in accordance with the construction plans and specifications outlined in the Groundwater Sampling and Analysis Plan for AOC 633, Zone G, dated August 22, 2002. These wells will be constructed as flush mount wells within the surficial aquifer to an approximate maximum depth of fourteen (14) feet below land surface to determine direction of groundwater flow and to monitor groundwater quality. These wells will be identified as G633GW001, G633GW002, G633GW003 and G633GW004.

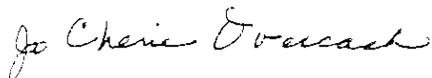
### **Conditions:**

All monitoring wells must be properly developed until clear, sediment-free water samples are obtained. Specific Conductance, temperature, turbidity, and pH measurements should be taken during development. A log recording the values of these parameters should be maintained during development of the wells. This log should be submitted along with the "as-built" construction details required by R.61-71.H.d. and R.61-71.H.f.

All well construction and sampling derived wastes, including but not limited to, drill cuttings, drilling fluids, and 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.

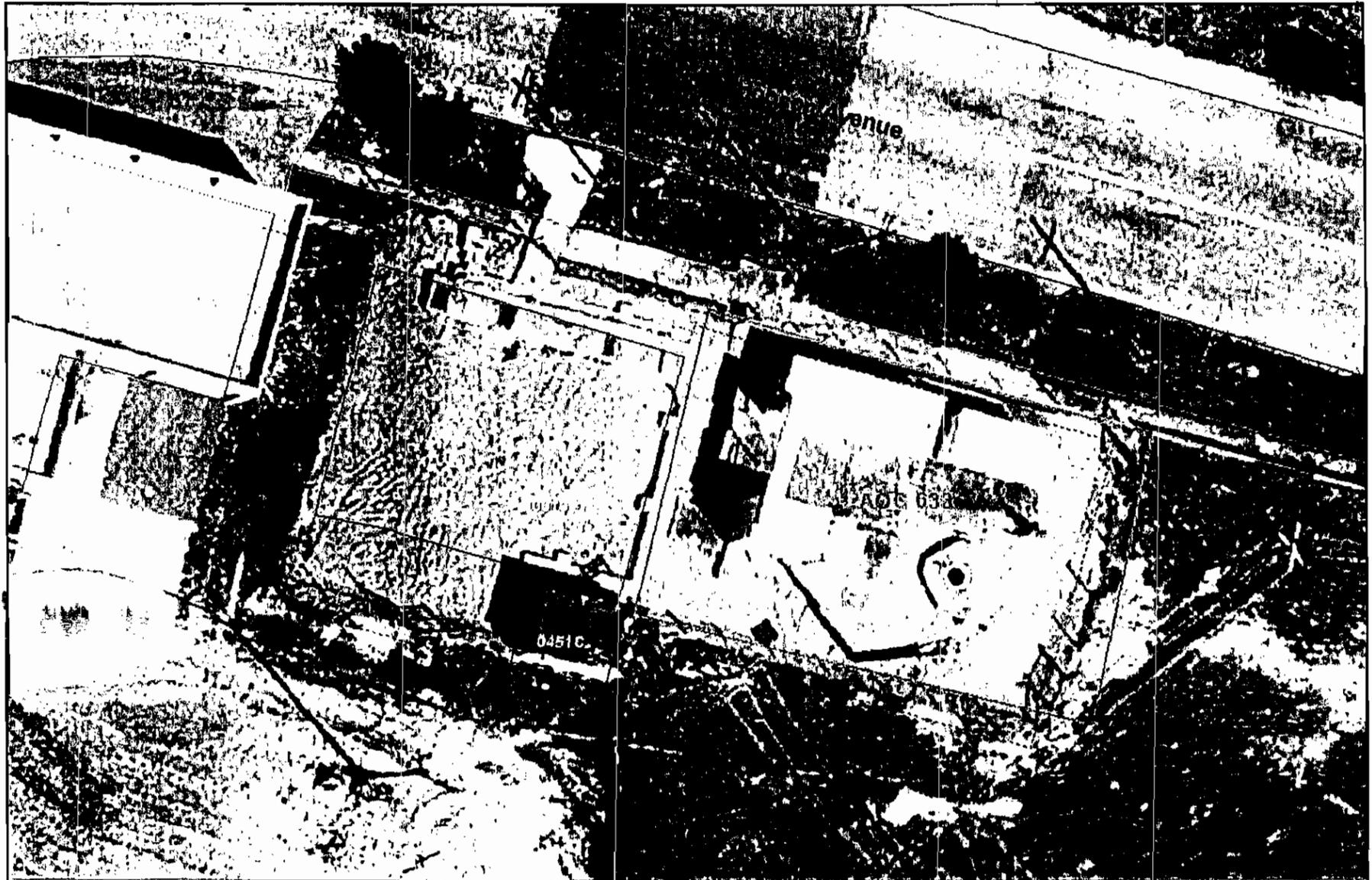
That notice be given to Christine Sanford-Coker, Charleston District EQC Hydrogeologist, during normal business hours at 843.740.1590 and Jo Cherie Overcash at 803.896.4019 a minimum of 48 hours before the initiation of drilling activities.

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

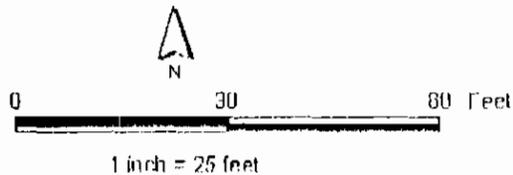


Jo Cherie Overcash, Hydrogeologist  
RCRA Hydrogeology Section  
Division of Hydrogeology  
Bureau of Land and Waste Management

NOTE: Aerial Photo Date is 1991  
 NOTE: Original figure contained a color



- Proposed Monitoring Well Location
- ⋄ Fence
- ∨ Roads
- ┌ AOC Boundary
- ▭ Buildings



**Figure 1**  
 Proposed Monitor Well Locations  
 AOC 633, Zone G  
 (Charleston Naval Complex)