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CNC CHARLESTON  
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MONITORING WELL REQUEST FOR SOLID WASTE MANAGEMENT UNIT 17 (SWMU 17)  
ZONE H CNC CHARLESTON SC  
1/25/2002  
CH2MHILL



**CH2MHILL**  
Constructors, Inc.

**CH2M HILL**  
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January 25, 2002

158814.ZH.PR.08

Mr. Paul Bergstrand, P. G.  
Hydrogeologist  
South Carolina Department of Health and Environmental Control  
Bureau of Land & Waste Management  
Division of Hydrogeology  
8901 Farrow Road  
Columbia, SC 29203

Subject: Request for Installation of Groundwater Monitor Wells  
SWMU 17, Zone H  
Charleston Naval Complex, North Charleston, South Carolina

Dear Paul:

On behalf of the U.S. Navy Southern Division Naval Facilities Engineering Command, CH2M-Jones requests the installation of two groundwater monitor wells at SWMU 17.

The purpose of these new shallow wells is to better define the nature of groundwater in the vicinity of SWMU 17. The two new monitor wells will be constructed to screen across the water table. Well installation will be performed in accordance with the South Carolina Well Standards and Regulations (R.61-71).

The attached figure presents the location of the proposed monitoring wells. Table 1 presents the required detailed information for monitoring well installation approval.

CH2M-Jones has scheduled to complete this work in January 2002. If you have any questions, comments, or require additional information please do not hesitate to contact us.

Sincerely,

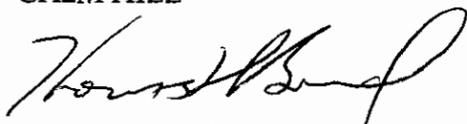
Mr. Paul Bergstrand, P.G.

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A handwritten signature in black ink, appearing to read "Tom Beisel", written in a cursive style.

Tom Beisel, P.G.

Project Geologist

(770) 604-9182 ext 367

enclosures

cc:

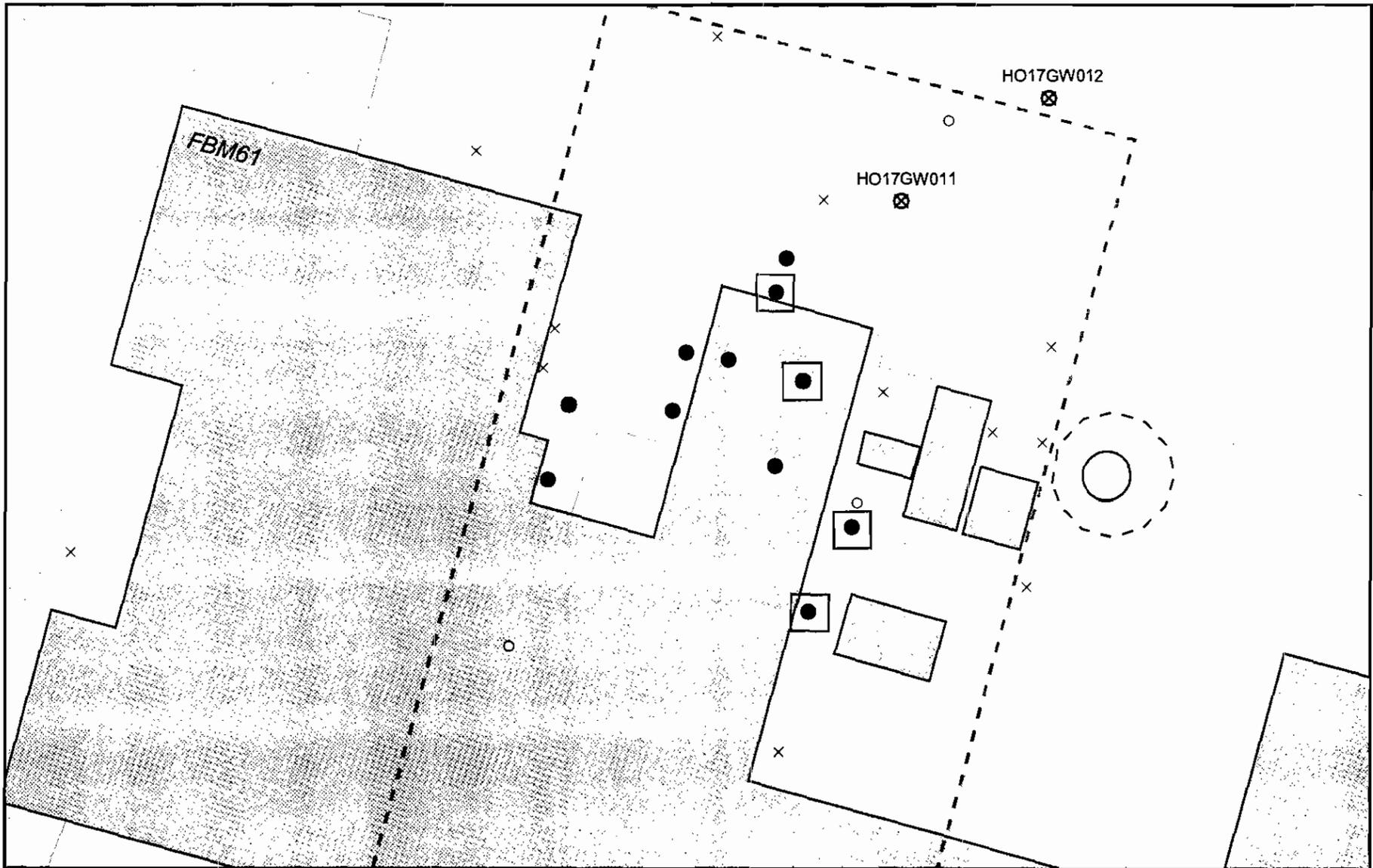
Tony Hunt, P.E./SOUTHDIV

Rob Harrell/SOUTHDIV

Dean Williamson, P.E./CH2M HILL/GNV

**TABLE 1**  
 Monitoring Well Installation Information Summary  
 SWMU 17, Zone H, Charleston Naval Complex

Well Identification	Well Diameter (Inner & Outer)	Method of Drilling	Screen Depth (ft bis)	Screen Length (ft)	Screen Mesh/Slot Size	Expected Total Depth of Well (ft bis)	Material of Well Construction	Analysis Parameters	Development (e.g., low flow, bailer, etc.)	Grout (Type, Mixture Ratio, etc.)	Finish Type	Purpose for Well	Other/ Comments
H017GW011	2-inch (inner)	Hollow Stem Auger	5 to 15	10-feet	0.01	15	Schedule 40 PVC	VOC/SVOC	Low Flow Pump with surge block	Portland Type II with 5% Bentonite	flush-mount	Groundwater monitoring	
H017GW012	2-inch (inner)	Hollow Stem Auger	5 to 15	10-feet	0.01	15	Schedule 40 PVC	VOC/SVOC	Low Flow Pump with surge block	Portland Type II with 5% Bentonite	flush-mount	Groundwater monitoring	



**LEGEND:**

**Groundwater Sample Locations**

● Concentration > MCS

○ Concentration < MCS

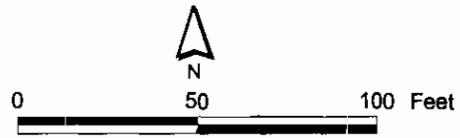
X Not Detected

■ Where NAPL Occurs

⊗ Proposed Monitoring Well Location

■ Area that exceeds Groundwater MCSs

/∨ Area where Groundwater Concentration may exceed MCSs based on occurrence of NAPL



**Figure 5-1**  
 Proposed New Monitoring  
 Well Locations  
 SWMU 17, Zone H  
 Charleston Naval Complex