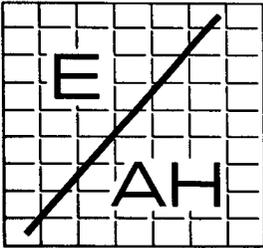


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LETTER DISCUSSING WELL ABANDONMENT AT SOLID WASTE MANAGEMENT UNITS 21  
AND 54 IN ZONE E CNC CHARLESTON SC  
1/22/1997  
ENSAFE/ ALLEN AND HOSHALL



# EnSafe / Allen & Hoshall

a joint venture for professional services

19

January 22, 1997

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Paul Bergstrand  
Department of Health and Environmental Control  
Bureau of Solid and Hazardous Waste  
8901 Farrow Road  
Columbia, South Carolina 29203

**RE: Well Abandonment at SWMU 021 and SWMU 054 in Zone E**

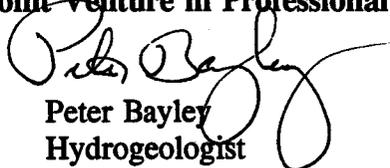
Dear Mr. Bergstrand:

On behalf of the Navy, EnSafe/Allen & Hoshall is submitting the following information documenting the well abandonment procedure undertaken for four shallow monitoring wells in Zone E. These wells, identified as NBCE-054-001, NBCE-054-003, NBCE-021-001, and NBCE-021-002, were abandoned between October 28 and November 5, 1996 as a result of interim measures activities at the site.

The monitoring wells were abandoned in accordance with procedures outlined in the EPA SOP/QAM (February, 1991) and the South Carolina Well Standards and Regulations (June, 1985). Well casings were over drilled to the bottom of the filter pack, approximately 15 feet below ground surface, using 4.25" ID hollow stem augers. The well casing and screen were removed before the borehole was grouted to the surface using a Portland cement grout. All drill cuttings were contained in 55 gallon drums.

Please feel free to contact me at (803)-884-0029 if you have any questions or concerns regarding the well abandonment procedure.

Sincerely,  
**EnSafe/Allen & Hoshall**  
A Joint Venture in Professional Service

By:   
Peter Bayley  
Hydrogeologist

Enclosures

cc: Gary Crawford, Caretakers Site Office  
Tony Hunt, SOUTHDIV  
Dave Backus, EnSafe  
