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LETTER REGARDING U S GEOLOGICAL SURVEY REVIEW AND CORRECTIONS TO DRAFT GROUNDWATER MONITORING PLAN FOR SITE 11 NSB KINGS BAY GA
1/8/1999
U S GEOLOGICAL SURVEY

United States Department of the Interior

GEOLOGICAL SURVEY
Water Resources Division
Peachtree Business Center, Suite 130
3039 Amwiler Road
Atlanta, Georgia 30360-2824

January 8, 1999

Mr. Mark Gage
Bechtel
151 Lafayette Drive
Oak Ridge, TN 37831-0350

Dear Mr. Gage,

Thank you for allowing me the opportunity to review the draft ground-water monitoring plan for the old Camden County landfill. I have corrected a few typographical errors on the body of the text. In addition, on page 10 of the text you state that recovery wells 1,2,3, and 4 will remain in place until compliance monitoring is terminated. It was my understanding that these four wells would be abandoned as you state on drawing 625-DD-001; this should be corrected.

I must also address the inclusion of the stratigraphic section generated by ABB-ES. While I believe this is a relatively accurate depiction of the general geology, it does not represent the hydrology. Contaminant movement, water-level data, outcrop data, and geophysical data indicate that the water-table system can be subdivided into two layers. The upper portion of the water table occurs from land surface to a depth of about 35 to 40 feet below land surface. There is little to no evidence to suggest that there is any "layer" above this depth that affects ground-water movement. Below this depth, an increase in clay content results in a decreased vertical hydraulic conductivity. This hydraulic-conductivity change causes a change in the vertical head distribution (this is the break between the upper and lower zones defined in the USGS report).

If you have any questions regarding this matter please feel free to give me a call at (770) 903-9120.

Sincerely,

David C. Leeth
Hydrologist

cc: David W. Hicks