

# Hydrology - SCDNR Open-File Report 41

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## **Hydrogeologic Investigation and Establishment of a Permanent Multi-Observational Well Network in Aiken, Allendale and Barnwell Counties, South Carolina -- Phase V**

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### **ABSTRACT**

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The Lower Savannah River Project was established in 1986 to enhance understanding of hydrogeologic conditions in and around the Savannah River Site. Four phase reports have been produced since 1987. This phase report covers one year and eleven months of activity from August 1990 through June 1992.

Five monitor wells were installed at site C-3 and four at C-5 to complete these clusters. A total of 3,014 feet were drilled to complete these nine monitor wells. New geophysical logs were made at sites C-3 and C-5 to replace earlier, incomplete versions. Hydraulic-head relationships and stratigraphy have been determined for sites C-3 and C-5.

Twenty-eight monitor wells are distributed among the five cluster sites (C-2, C-3, C-5, C-6, and C-10). Pumps were installed in 26 wells, and water samples from these wells were analyzed to determine the chemical composition. Sieve analyses were made for 296 sediment samples taken from five core holes. Cumulative curves were prepared for samples taken from the screened zone of each monitor well. Core-description information from five sites has been entered into dBase files for use in statistical analyses.

Copies of this report are available in the SCDNR's Columbia office.