

F-Area Seepage Basins - Fourth Quarter 1994 - Groundwater Monitoring Report—Volumes I and II

by

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F-AREA SEEPAGE BASINS GROUNDWATER MONITORING REPORT (U)

THIRD AND FOURTH QUARTERS 1994

Volume I

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Abstract

Groundwater at the F-Area Seepage Basins (FASB) is monitored in compliance with Module III, Section C, of South Carolina Hazardous Waste Permit SC1-890-008-989, effective November 2, 1992. The monitoring well network is composed of 86 FSB wells and well HSB 85A. These wells are screened in the three hydrostratigraphic units that make up the uppermost aquifer beneath the FASB. A detailed description of the uppermost aquifer is included in the Resource Conservation and Recovery Act Part B post-closure care permit application for the F-Area Hazardous Waste Management Facility submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) in December 1990. Data from 9 FSL wells are included in this report only to provide additional information for this area.

Monitoring results are compared to the SCDHEC Groundwater Protection Standard (GWPS), which is specified in the approved F-Area Seepage Basins Part B permit (November 1992). Historically and currently, gross alpha, nitrate, nonvolatile beta, and tritium are among the primary constituents to exceed standards. Numerous other radionuclides and hazardous constituents also exceeded the GWPS in the groundwater at the FASB during the second half of 1994, notably aluminum, iodine-129, and zinc. The elevated constituents are found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) wells. However, several Aquifer Unit IIA (Congaree) wells also contain elevated levels of constituents.

Isoconcentration/isoactivity maps included in this report indicate both the concentration/activity and extent of the primary contaminants in each of the three hydrostratigraphic units. Geologic cross sections indicate both the extent and depth of contamination of the primary contaminants in all of the hydrostratigraphic units during the second half of 1994. Water-level maps indicate that the groundwater flow rates and directions at the FASB have remained relatively constant since the basins ceased to be active in 1988.

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Executive Summary

The groundwater in the uppermost aquifer beneath the F-Area Seepage Basins (FASB) at the Savannah River Site (SRS) is monitored for various hazardous and radioactive constituents as required by Module III, Section C, of South Carolina Hazardous Waste Permit SC1-890-008-989, effective November 2, 1992 (SCDHEC, 1992). Currently, 86 wells of the FSB well series and well HSB 85A are monitored quarterly for alkalinity; gross alpha; certain heavy metals, including cadmium and lead; nitrate; nonvolatile beta; pH; specific conductance; tritium; and water elevation. Selected wells are monitored semi-annually for constituents with a Groundwater Protection Standard (GWPS), and all wells are monitored annually for GWPS constituents. GWPS constituents include selected heavy metals, indicator parameters, radionuclides, and volatile organics. This report describes the groundwater monitoring results and indicates those results that exceeded the GWPS and SRS flagging criteria during third and fourth quarters 1994. Data from 9 FSL wells are included only to provide additional information on the area. Groundwater monitoring reports are submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) semiannually as required by Permit SC1-890-008-989.

During the second half of 1994, the following parameters exceeded the GWPS in FSB wells at the FASB: aluminum, americium-241, barium, cadmium, cesium-137, cobalt, copper, curium-243/244, cyanide, dichloromethane, gross alpha, iodine-129, lead, mercury, nickel, nitrate, nonvolatile beta, pH, radium-226, radium-228, strontium-89¹, strontium-90, thorium-234, trichloroethylene, trichlorofluoromethane, tritium, uranium-233/234, uranium-235, uranium-238, and zinc.

Aluminum, gross alpha, iodine-129, nitrate, nonvolatile beta, pH, tritium, and zinc were elevated most frequently, exceeding GWPS in 34 or more FSB wells each. Nitrate concentrations in several Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) wells were unusually high during fourth quarter 1994 compared to previous quarters of the year. These values were confirmed by the analytical laboratory. In 76 (88%) of the 86 FSB wells, pH exceeded the GWPS, most often exceeding the acidic standard. Barium, cesium-137, cyanide, dichloromethane, lead, mercury, thorium-234, trichloroethylene, and trichlorofluoromethane were elevated less frequently, exceeding GWPS in 5 or fewer wells each. Elevated levels of aluminum, cyanide, dichloromethane, iodine-129, nitrate, pH, tritium, and zinc were found in one or more of the up-gradient FSB wells.

Elevated constituents were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean). However, aluminum, cyanide, dichloromethane (a common laboratory contaminant), iodine-129, nitrate, nonvolatile beta, pH, tritium, and zinc exceeded the GWPS in one or more of the FSB wells in Aquifer Unit IIA (Congaree).

The following parameters exceeded the GWPS in FSL wells in F Area during the second half of 1994: aluminum, gross alpha, lead, mercury, nitrate, nonvolatile beta, pH, trichloroethylene, trichlorofluoromethane, tritium, and zinc.

Groundwater flow directions beneath the FASB in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) are generally south to southeast toward Fourmile Branch (using universal transverse Mercator coordinates). Flow in Aquifer Unit IIA (Congaree) is generally northwest toward Upper Three Runs Creek. Flow directions and rates have remained relatively

constant in recent history; however, previous descriptions may appear to differ because SRS grid coordinates were used prior to 1993.

Introduction

Description of Facilities

The three F-Area Seepage Basins (FASB) are located in the central part of the Savannah River Site (SRS) (Figures 1 and 2, Appendix C) within the Separations Area. The following description outlines important events in the history of the FASB:

- The FASB began operating in 1955 to replace the Old F-Area Seepage Basin. These unlined, hydraulically connected basins received waste water containing low-level radioactive constituents and chemicals primarily from the F-Area Separations Facility. The main sources for this waste water included cooling water from the tritium facilities, nitric acid recovery overheads, general purpose evaporator overheads, other process evaporator overheads, and retention basin transfers (Heffner and Exploration Resources, 1991).
- The Resource Conservation and Recovery Act (RCRA) Part A post-closure care permit application was submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) on September 29, 1980, and the Part B permit application was submitted on February 6, 1985.
- In Administrative Consent Order 85-70-SW (November 7, 1985), the U.S. Department of Energy (DOE) agreed to comply with the South Carolina Hazardous Waste Management Regulations (SCHWMR) (SCDHEC, 1990) and to continue quarterly groundwater monitoring at the FASB.
- In Settlement Agreement 86-52-SW (June 20, 1986), SCDHEC required DOE to submit groundwater monitoring reports to address groundwater contamination at the FASB.
- On May 1, 1987, Settlement Agreement 87-27-SW became effective. In this agreement, SCDHEC required DOE to submit a revised Part B post-closure care permit application by April 15, 1988, to address a Notice of Deficiency issued by SCDHEC on November 21, 1985.
- DOE submitted a revised Part B post-closure care permit application on April 15, 1988, in compliance with Settlement Agreement 87-27-SW.
- Under the Consent Decree of June 1, 1988 (Natural Resources Defense Council et al., Civil Action 1:85-2583-6, U.S. District Court, District of South Carolina, Aiken Division), the FASB was placed on Interim Status.
- Discharge of waste water to the FASB was discontinued on November 7, 1988.
- SCDHEC terminated Interim Status for the FASB on November 8, 1988.
- On December 3, 1990, DOE submitted a revised Part B post-closure care permit application to SCDHEC that included a plan for groundwater remediation (WSRC, 1990).

- Closure caps for the FASB were completed on January 4, 1991. These low permeability caps prevent infiltration of rainwater through the basin sediments and minimize migration of contaminants into the groundwater.
- A revised Part B post-closure care permit application was submitted to SCDHEC on January 22, 1991.
- The basins were certified closed April 26, 1991, in accordance with SCHWMR (SCDHEC, 1990).
- In March 1992, a revised Part B post-closure care permit application (WSRC, 1992a) was submitted to SCDHEC.
- SCDHEC issued a modification with conditions to permit SC1-890-008-989 on September 30, 1992 (SCDHEC, 1992). The permit, effective November 2, 1992, requires submittal of a detailed corrective action plan for groundwater remediation at the FASB.
- On February 15, 1994, SCDHEC issued a modification to permit SC1-890-008-989 that changed the groundwater sampling schedule to quarterly monitoring of all wells for selected field and analytical parameters, semi-annual monitoring of selected wells for all constituents with a Groundwater Protection Standard (GWPS), and annual monitoring of all wells for all constituents with a GWPS.

The Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) monitors the groundwater beneath the FASB as part of the SRS Groundwater Monitoring Program. The Environmental Restoration Department provides semiannual reports to SCDHEC as required by South Carolina Hazardous Waste Permit SC1-890-008-989, effective November 2, 1992 (SCDHEC, 1992).

Hydrostratigraphic Units

Historically, groundwater monitoring reports for the FASB have used the nomenclature *Water Table*, *Barnwell*, *McBean*, and *Congaree* to identify water-bearing units. However, an interim alphanumeric system developed by Aadland and Bledsoe (1990) (Figure 3, Appendix C) defines these units at SRS using hydrostratigraphic rather than lithostratigraphic designations. Figure 4 (Appendix C) shows a correlation of these designations. For clarity, this report uses the newer nomenclature and also includes the older names used in earlier reports. The FASB RCRA Part B post-closure care permit application (WSRC, 1992a), submitted March 1992, includes an in-depth explanation of the new nomenclature.

The FASB well network monitors three distinct hydrostratigraphic units in the uppermost aquifer beneath the facility: Aquifer Zone IIB₂ (Water Table), which is supported by Confining Zone IIB₁-IIB₂ (Tan Clay); the poorly confined Aquifer Zone IIB₁ (Barnwell/McBean); and the semi-confined Aquifer Unit IIA (Congaree), which is separated from the overlying Aquifer Zone IIB₁ (Barnwell/McBean) by Confining Unit IIA-IIB (Green Clay). The base of the uppermost aquifer is defined as the uppermost bed of Confining System I-II (Ellenton Formation), which lies approximately 300 ft below the surface of the area. The FASB RCRA Part B post-closure care permit application includes a detailed description of the geologic and hydrogeologic systems at the FASB.

Monitoring Well Nomenclature

Generally, groundwater monitoring wells are designated with an abbreviated waste management unit prefix (e.g., FSB), a number (1 through 999), and a suffix (A, B, C, or D) which indicates the hydrostratigraphic unit being monitored. At the FASB, if the suffix is followed by a *D*, the well monitors Aquifer Zone IIB₂ (Water Table); if it is followed by a *C*, the well monitors Aquifer Zone IIB₁ (Barnwell/McBean); and if it is followed by an *A* or *B*, the well monitors the lower or upper portion of Aquifer Unit IIA (Congaree), respectively. An *R* designation following the *A*, *B*, *C*, or *D* suffix indicates a replacement well.

There are exceptions to this nomenclature. For example, wells FSB 76, 77, 78, and 79 monitor Aquifer Zone IIB₂ (Water Table), and wells FSB 96AR, 97A, 98AR, 99A, 100A, 101A, 112A, 113A, 114A, and 120A monitor the upper portion of Aquifer Unit IIA (Congaree).

Discussion

Groundwater Monitoring Data

The sampling procedure (WSRC, 1992b) for pumped wells requires evacuation of a minimum of two well volumes and stabilization of pH, specific conductance, and turbidity prior to sample collection. Stability for each parameter is established when a minimum of three successive measurements, taken at 10-minute intervals, are within 10 percent of each other. If a well pumps dry before two well volumes are purged or before stabilization is achieved, it must be revisited within 24 hours for the data to be considered part of a single sampling event. On the second visit within 24 hours, samples are taken without purging or stability measurements; thus, these samples may not be representative of the groundwater quality.

Variable-speed pumps are installed in wells at the FASB that have had a history of elevated metals. Samples from these wells are collected at a slower rate to minimize turbidity, which has been associated with elevated metals levels. Results from previous SRS studies indicate decreased aluminum and iron concentrations as well as lower turbidity values for samples from wells with this kind of pump. Currently, wells FSB 77, 78, 78C, 79, 79C, 88D, 89D, 90D, 91C, 91D, 92C, 92D, 93D, 94C, 97C, 97D, 98C, 98D, 102C, 104D, 105C, 105DR, 106C, 107D, and 110D, and wells FSL 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, and 9D have variable-speed pumps.

During third and fourth quarters 1994, samples from wells at the FASB were analyzed for field indicator parameters, gross alpha, certain heavy metals, nitrate, nonvolatile beta, tritium, and other radioactive and nonradioactive constituents. Analytical results that exceeded the GWPS (Appendix A) or the SRS flagging criteria (Appendix B) are presented in this report. The GWPS is based on standards listed in section 264.94 of SCHWMMR (SCDHEC, 1990), practical quantitation limits identified in Appendix IX of SCHWMMR or established by the contract laboratories, interim use of primary and secondary drinking water standards (EPA, 1992a; 1992b), and the SRS flagging criteria (Appendix B). The SRS flagging criteria are based on following standards:

- the Safe Drinking Water Act final Primary Drinking Water Standards (PDWS) established by the U.S. Environmental Protection Agency (EPA)
- proposed PDWS
- Secondary Drinking Water Standards
- method detection limits.

For simplicity, results that either equaled or exceeded standards are described as *elevated* or as *exceeding* standards or *above* standards.

The SCDHEC permit requires that all radionuclides except gross alpha, nonvolatile beta, total radium (radium-226 and radium-228), and tritium be compared to activities found in SRS background wells. The studies to obtain background activities are not completed; thus, SRS Flag 2 criteria are used in this report as interim standards for radionuclides requiring background activity standards.

Currently, EPD/EMS does not provide analyses for several required radionuclides. Americium-243, nickel-63, plutonium-241, and plutonium-242 activities are not determined because their determinations require difficult methodologies which yield questionable results. In this report, the activities of these radionuclides were calculated as ratios of measured activities of chemically similar radionuclides. The activity ratios are as follows: americium-243:curium-244 $\approx 3.0\text{E}-03$; nickel-63:cobalt-60 $\approx 1.0\text{E}+00$; plutonium-241:plutonium-239 $\approx 4.0\text{E}+00$; and plutonium-242:plutonium-239 $\approx 2.0\text{E}-05$ (Environmental Restoration Department memorandum WSRC-RP-93-0723 from H. P. Holcomb to C. M. Lewis, May 14, 1993). Curium-244 and plutonium-239 activities currently are not determined by the analytical laboratory. Therefore, curium-243/244 and plutonium-239/240 activities were used to calculate the activities of americium-243, plutonium-241, and plutonium-242. Detection limit values for curium-243/244, cobalt-60, and plutonium-239/240 were treated as real numbers in calculations. Results calculated from detection limit values are preceded by less than (<) signs in the data tables.

Also, total radium (radium-226 and radium-228) and curium-246, required by the SCDHEC permit, are not determined by the analytical laboratory. Total radium activities were not calculated for this report because of problems inherent in summing the numerous detection limit values obtained for radium-226 and radium-228. Individual results for radium-226 and radium-228, which were analyzed for third quarter only, are reported to meet this requirement. Curium-245/246 activities are reported as an upper limit for curium-246 activities.

The activities for gross alpha and nonvolatile beta can not be compared with the summed activities of the individual radionuclides. The difference between the counts for gross alpha and the sum of the counts for the individual alpha emitters (Am-241, Cm-243/244, Ra-226, Th-228, Th-230, U-233/234, U-235, U-238) is usually plus or minus 50 percent. The difference between the counts for nonvolatile beta and the sum of the counts for the individual beta emitters (Co-60, Cs-137, I-129, Ra-228, Sr-89, Sr-90, Tc-99, Th-234) is up to two orders of magnitude. The discrepancies are the result of different counting techniques. The techniques used to determine the activities of the individual radionuclides are quantitative; however, the technique used to determine gross alpha and nonvolatile beta activities has the following problems:

- Corrections must be made in equipment calibration and counting to compensate for the amount of solids in the sample.
- Low-energy beta emitters are counted less efficiently because they are shielded by solids. Tc-99, a low-energy beta emitter, generally makes up at least 80 percent of the summed activities.
- Gross alpha and nonvolatile beta activities are counted simultaneously in the same sample, resulting in count interference.

Permit conditions IIIC.H.10.b.vi, vii, ix, and x, which are specific requirements for a corrective action program, are not discussed in this report because corrective action has not yet begun at the FASB.

Integrity of the Monitoring Well Network

The current groundwater monitoring well network at the FASB (Figure 2, Appendix C) is composed of the following:

- 36 Aquifer Zone IIB₂ (Water Table) wells (Figure 5, Appendix C): FSB 76, 77, 78, 79, 87D, 88D, 89D, 90D, 91D, 92D, 93D, 94DR, 95DR, 97D, 98D, 99D, 104D, 105DR, 106D, 107D,

108D, 109D, 110D, 111D, 112D, 113D, 114D, 115D, 116D, 117D, 118D, 119D, 120D, 121DR, 122D, and 123D

- 32 Aquifer Zone IIB₁ (Barnwell/McBean) wells (Figure 6, Appendix C): FSB 76C, 78C, 79C, 87C, 88C, 89C, 90C, 91C, 92C, 93C, 94C, 95CR, 97C, 98C, 99C, 102C, 103C, 104C, 105C, 106C, 107C, 110C, 111C, 112C, 113C, 114C, 115C, 116C, 120C, 121C, 122C, and 123C
- 19 Aquifer Unit IIA (Congaree) wells (Figure 7, Appendix C): FSB 76B, 78B, 79B, 87B, 96AR, 97A, 98AR, 99A, 100A, 101A, 112A, 113A, 114A, and 120A and HSB 85A in the upper portion; FSB 76A, 78A, 79A, and 87A in the lower portion
- 9 additional Aquifer Zone IIB₂ (Water Table) wells (Figure 5, Appendix C): FSL 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, and 9D

The designated background wells are FSB 76C and 108D and HSB 85A. Compared to the remaining upgradient FSB wells, these wells have lower constituent concentrations and activities in the units where they are screened as well as in adjacent units. They have been approved by SCDHEC as background wells.

The designated point-of-compliance (POC) wells are as follows:

- Aquifer Zone IIB₂ (Water Table): FSB 88D, 89D, 90D, 91D, 92D, 93D, 94DR, 95DR, 97D, 98D, 99D, and 109D
- Aquifer Zone IIB₁ (Barnwell/McBean): FSB 88C, 89C, 90C, 91C, 92C, 93C, 94C, 95CR, 97C, 98C, and 99C
- Aquifer Unit IIA (Congaree): FSB 96AR, 97A, 98AR, 99A, 100A, and 101A

SRS has a program in place to rehabilitate or replace wells that do not produce representative samples from the units being monitored. A complete record of well installations, replacements, and abandonments at the FASB is found in the EPD/EMS well inventory (EPD/EMS, 1994). The most recent well construction activity for FSB wells occurred during 1991. All FSL wells were installed in 1992.

Table 3 (Appendix D) lists the number of well volumes purged from each of the FASB monitoring wells during third and fourth quarters 1994 and provides sampling codes (I, P, X, etc. as defined in the front section of Appendix D) that describe unusual sampling events. Unusual sampling events occurred as follows:

- Wells that went dry during purging and were revisited within 24 hours (X): FSB 78C, 90D, 93D, 94C, 97C, 97D, 98D, 108D, 109D, 113A, 113C, 115C, 115D, 116D, 119D, 120D, and 121DR and FSL 1D, 2D, 3D, 4D, and 7D during third quarter; and wells FSB 78C, 88D, 93D, 94C, 97C, 97D, 108D, 109D, 113A, 113C, 115C, 115D, 116D, 119D, 120D, and 121DR and FSL 1D, 2D, 3D, and 7D during fourth quarter.
- Wells that went dry during sampling, insufficient water to collect all samples (I): FSB106D during third and fourth quarters. This well went dry after field analysis and did not yield enough water for complete laboratory analysis. SRS currently is evaluating the performance of this well.

- Wells that were inaccessible or had mechanical failure that prevented sampling (P): FSB 91C during third and fourth quarters.
- Wells that went dry before sampling began (L): FSL 4D during fourth quarter.

The following wells had no water in the standpipe when water levels were measured: FSB 87D, 90D, and 106D during third quarter; FSB 87D, 106D, 115C, 115D, and 116C during fourth quarter. Depth to water was not recorded by the samplers for well FSB116D during fourth quarter so the water elevation could not be calculated.

Analytical Results Exceeding Standards

Results for analytes that exceeded the GWPS (see Appendix A) during third and fourth quarters 1994 are summarized in Table 1 (Appendix D) and in the discussion below.

Aquifer Zone IIB₂ (Water Table), Third Quarter 1994

All 36 FSB wells and 9 FSL wells in Aquifer Zone IIB₂ (Water Table) exhibited one or more parameters that exceeded the GWPS during third quarter 1994. Laboratory pH measurements for 35 FSB wells and 8 FSL wells exceeded the GWPS. Aluminum was elevated in 32 FSB wells, with a maximum concentration of 81,000 $\mu\text{g/L}$ in well FSB 94DR, and in 6 FSL wells, with a maximum concentration of 3,800 $\mu\text{g/L}$ in well FSL 9D. Tritium was elevated in 26 FSB wells, with a maximum activity of 2.2E+04 pCi/mL in well FSB110D, and in 7 FSL wells, with a maximum activity of 2.5E+03 pCi/mL in well FSL 7D.

Nitrate was elevated in 22 FSB wells, with a maximum concentration of 330,000 $\mu\text{g/L}$ in well FSB110D, and in 4 FSL wells, with a maximum concentration of 84,000 $\mu\text{g/L}$ in well FSL 7D. Nonvolatile beta was elevated in 22 FSB wells, with a maximum activity of 3.4E+03 pCi/L in well FSB112D, and in 3 FSL wells, with a maximum activity of 4.6E+02 pCi/L in well FSL 5D. Gross alpha was elevated in 22 FSB wells, with a maximum activity of 1.4E+03 pCi/L in well FSB 95DR, and in 2 FSL wells, with a maximum activity of 7.6E+01 pCi/L in well FSL 9D. Zinc was elevated in 19 FSB wells, with a maximum concentration of 640 $\mu\text{g/L}$ in well FSB106D, and in 7 FSL wells, with a maximum concentration of 120 $\mu\text{g/L}$ in well FSL 4D.

Iodine-129 was elevated in 15 FSB wells, with a maximum activity of 5.1E+02 pCi/L in well FSB 89D. Strontium-90 was elevated in 14 FSB wells, with a maximum activity of 1.2E+03 pCi/L in well FSB112D. Uranium-238 was elevated in 13 FSB wells, with a maximum activity of 1.6E+03 pCi/L in well FSB 95DR. Americium-241, radium-228, and uranium-233/234 were elevated in 12 FSB wells each, and curium-243/244 was elevated in 11 FSB wells. None of these constituents were analyzed in FSL wells during third quarter 1994.

Uranium-235 was elevated in 9 FSB wells and was not analyzed in FSL wells. Cadmium was elevated in 6 FSB wells and no FSL wells; copper also was elevated in 6 FSB wells but was not analyzed in FSL wells. Mercury was elevated in 5 FSB wells and 1 FSL well, and strontium-89¹ also was elevated in 5 FSB wells but was not analyzed in FSL wells. Radium-226 was elevated in 4 FSB wells but was not analyzed in FSL wells, and thorium-234 was elevated in 3 FSB wells and no FSL wells. Cesium-137, dichloromethane, lead, and nickel were elevated in 2 FSB wells each and in no FSL wells, and cobalt and cyanide also were elevated in 2 FSB wells each but were not analyzed in FSL wells. Barium was elevated in 1 FSB well and no FSL wells. Trichlorofluoromethane was not elevated in any of the FSB

wells but was elevated in 3 FSL wells, and trichloroethylene was not elevated in any FSB wells but was elevated in 1 FSL well.

Aquifer Zone IIB₁ (Barnwell/McBean), Third Quarter 1994

Thirty-one of the 32 Aquifer Zone IIB₁ (Barnwell/McBean) wells exhibited one or more parameters that exceeded the GWPS. No FSL wells are located in Aquifer Zone IIB₁ (Barnwell/McBean). Laboratory pH measurements exceeded the GWPS in 31 FSB wells. Tritium was elevated in 24 FSB wells, with a maximum activity of 1.6E+04 pCi/mL in well FSB 97C. Nitrate was elevated in 21 FSB wells, with a maximum concentration of 280,000 µg/L in well FSB 97C. Aluminum was elevated in 20 FSB wells, with a maximum concentration of 110,000 µg/L in well FSB 97C.

Zinc was elevated in 16 FSB wells, with a maximum concentration of 560 µg/L in well FSB 78C. Iodine-129 and nonvolatile beta were elevated in 15 FSB wells each. Iodine-129 had a maximum activity of 2.0E+02 pCi/L in wells FSB 95CR and FSB 112C. Nonvolatile beta had a maximum activity of 2.4E+03 pCi/L in wells FSB 94C and FSB 95CR.

Gross alpha was elevated in 13 FSB wells, and strontium-90 was elevated in 11 FSB wells. Cobalt and radium-226 were elevated in 8 FSB wells each. Cadmium, nickel, uranium-233/234, and uranium-238 were elevated in 7 FSB wells each. Americium-241, copper, and curium-243/244 were elevated in 5 FSB wells each, and radium-228 was elevated in 4 FSB wells. Strontium-89¹ and uranium-235 were elevated in 3 FSB wells each, and cyanide was elevated in 2 FSB wells. Lead, trichloroethylene, and trichlorofluoromethane were elevated in 1 FSB well each.

Upper portion of Aquifer Unit IIA (Congaree), Third Quarter 1994

Twelve of the 15 wells in the upper portion of Aquifer Unit IIA (Congaree) exhibited one or more parameters that exceeded the GWPS. No FSL wells are located in the upper portion of Aquifer Unit IIA (Congaree). Tritium was elevated in 11 FSB wells, with a maximum activity of 3.4E+02 pCi/mL in well FSB 97A. Laboratory measurements of pH exceeded the GWPS in 5 FSB wells. Iodine-129 was elevated in 4 FSB wells, and aluminum was elevated in 2 FSB wells. Cyanide, dichloromethane, nitrate, and zinc were elevated in 1 FSB well each.

Lower portion of Aquifer Unit IIA (Congaree), Third Quarter 1994

All four of the FSB wells in the lower portion of Aquifer Unit IIA (Congaree) had laboratory pH measurements that exceeded the GWPS. No FSL wells are located in the lower portion of Aquifer Unit IIA (Congaree).

Aquifer Zone IIB₂ (Water Table), Fourth Quarter 1994

All 36 FSB wells and 8 of the 9 FSL wells in Aquifer Zone IIB₂ (Water Table) exhibited one or more parameters that exceeded the GWPS during fourth quarter 1994. Laboratory pH measurements were elevated in 36 FSB wells and 7 FSL wells. Tritium, with a maximum activity of 2.1E+04 pCi/mL in well FSB 110D, was elevated in 26 FSB wells and in 7 FSL wells, with a maximum activity of 2.1E+03 pCi/mL in well FSL 7D.

Nitrate was elevated in 22 FSB wells, with a maximum concentration of 2,400,000 µg/L in well FSB 97D, and in 4 FSL wells, with a maximum concentration of 88,000 µg/L in well

FSL 7D. Gross alpha was elevated in 22 FSB wells, with a maximum activity of $1.1\text{E}+04$ pCi/L in well FSB 94DR, and in 2 FSL wells, with a maximum activity of $8.4\text{E}+01$ pCi/L in well FSL 9D. Nonvolatile beta, with a maximum activity of $3.5\text{E}+03$ pCi/L in well FSB 89D, was elevated in 21 FSB wells and in 3 FSL wells, with a maximum activity of $3.2\text{E}+02$ pCi/L in well FSL 5D.

Cadmium was elevated in 5 FSB wells and was not elevated in any FSL wells. Lead and zinc were elevated in 2 FSB and 2 FSL wells each, and aluminum was elevated in 2 FSB wells and no FSL wells. Trichlorofluoromethane was elevated in no FSB wells and 4 FSL wells, and trichloroethylene was not elevated in any FSB wells but was elevated in 1 FSL well.

Aquifer Zone IIB₁ (Barnwell/McBean), Fourth Quarter 1994

Thirty-one of the 32 Aquifer Zone IIB₁ (Barnwell/McBean) wells had one or more parameters that exceeded the GWPS. No FSL wells are located in Aquifer Zone IIB₁ (Barnwell/McBean). Laboratory pH measurements exceeded the GWPS in 31 FSB wells. Tritium was elevated in 24 FSB wells, with a maximum activity of $1.5\text{E}+04$ pCi/mL in well FSB 97C.

Nitrate was elevated in 20 FSB wells, with a maximum concentration of $2,600,000$ $\mu\text{g/L}$ in well FSB 97C. Nonvolatile beta was elevated in 16 FSB wells, with a maximum activity of $2.4\text{E}+03$ pCi/L in wells FSB 79C and 95CR, and gross alpha was elevated in 12 FSB wells, with a maximum activity of $1.6\text{E}+03$ pCi/L in well FSB 98C. Cadmium was elevated in 3 FSB wells, and lead was elevated in 1 FSB well.

Upper portion of Aquifer Unit IIA (Congaree), Fourth Quarter 1994

Ten of the 15 FSB wells in the upper portion of Aquifer Unit IIA (Congaree) exhibited one or more parameters that exceeded the GWPS. No FSL wells are located in the upper portion of Aquifer Unit IIA (Congaree). Tritium was elevated in 9 FSB wells, with a maximum activity of $3.0\text{E}+02$ pCi/mL in well FSB 78B. Laboratory pH measurements exceeded the GWPS in 3 FSB wells. Nitrate and nonvolatile beta were elevated in 1 FSB well each.

Lower portion of Aquifer Unit IIA (Congaree), Fourth Quarter 1994

Laboratory measurements of pH exceeded the GWPS in 3 of the 4 FSB wells in the lower portion of Aquifer Unit IIA (Congaree). No FSL wells are located in this aquifer unit.

Results for analytes that exceeded the SRS Flag 2 criteria (Appendix B) during third and fourth quarters 1994 are summarized in Table 2 (Appendix D).

Table 3 (Appendix D) shows field water quality results, water elevations at sampling time, and laboratory analytical data as required in permit section IIIC.H.10.b.i. Table 3 also identifies the results that received modifiers (which help define laboratory accuracy and precision) or that exceeded EPA-approved holding times, the GWPS, or SRS flagging criteria during third and fourth quarters 1994. Constituent results in Table 3 that appear to equal the GWPS but are not marked in the ST column (exceeded GWPS) are below the GWPS in the database. Database results, which are the results compared to the GWPS, are entered with more significant digits than the results given in this report. Apparent discrepancies are due to the rounding of reported results.

In addition to the results tables, Appendix D provides definitions of the abbreviations and the modifiers used in the results tables as well as descriptions of holding times, data rounding, and

data qualification practices. Appendix E provides a general assessment of the quality and usability of EPD/EMS data.

Maps and Time Series Plots

Isoconcentration maps for cadmium, gross alpha, lead, nitrate, nonvolatile beta, radium-226, radium-228, and tritium in the hydrostratigraphic units during third or fourth quarter 1994 are presented in Figures 8 through 31 (Appendix C). Isoconcentration contouring for radium-226 and -228 maps for the third quarter 1994 was not possible because of a lack of data. Water-contour maps for the monitored water-bearing units during third and fourth quarters 1994 are located in Figures 32 through 37 (Appendix C). Levels of pH and specific conductance in the three hydrostratigraphic units during fourth quarter 1994 are shown in Figures 38 through 43 (Appendix C).

Geologic cross sections of cadmium, gross alpha, lead, nitrate, nonvolatile beta, radium-226, radium-228, and tritium levels during fourth quarter 1994, as required by section IIIC.H.10.c.iv of the permit, are provided in Figures 44 through 51 (Appendix C). Geologic cross sections showing equipotential surfaces third and fourth quarters 1994, as required by section IIIC.H.10.c.v of the permit, are presented in Figures 52 and 53 (Appendix C).

Large-scale (1 in. = 900 ft) isoconcentration maps of cadmium, gross alpha, lead, nitrate, nonvolatile beta, radium-226, radium-228, and tritium for fourth quarter 1994, as required by section IIIC.H.10.b.iv of the permit, and large-scale piezometric and potentiometric maps for third and fourth quarters 1994, as required by section IIIC.H.10.b.v of the permit, are located in Volume II of this report.

Synchronous water elevations were used to construct the small- and large-scale piezometric and potentiometric maps and cross sections. Synchronous water elevations are water-elevation measurements taken over as short a time period as possible; thus, other field measurements and sampling for laboratory analyses are not conducted during the time these measurements are made. This short time period allows the production of steady-state piezometric and potentiometric maps by minimizing the variation in water elevations that could occur, for example, if some elevations were measured before a large rain and the remaining elevations were measured after the rain. Synchronous water elevations were measured on September 28–29 during third quarter 1994 and on December 21 during fourth quarter 1994.

Appendix F contains time series plots for cadmium, gross alpha, lead, nitrate, nonvolatile beta, radium-226, radium-228, and tritium for selected FSB wells as required in section IIIC.H.10.b.iii of the permit. These wells were selected to delineate the extent of the constituent distribution, to monitor the migration of the constituents, and to follow trends of constituents present at high levels.

Water Levels

Rainfall recharge data for the period of this report, required by section IIIC.H.10.b.viii of the permit, are presented below. Rainfall per month in F Area (200-F) for the second half of 1994 is compared with the SRS average monthly rainfall for the same period and to the SRS historical average monthly rainfall.

Rainfall Recharge (in.) During Third and Fourth Quarters of 1994

	F-Area (200-F) Rainfall/Month (1994)	SRS Average Rainfall/Month (1994)	SRS Average Rainfall/Month (historical)
July	5.54	6.98	5.18
August	5.29	5.09	4.87
September	1.48	2.59	3.78
October	10.50	10.06	3.12
November	2.56	3.10	2.70
December	4.91	5.35	3.54
Six-month total	30.28	33.17	23.19

Hydrographs showing the water elevations for the FSB wells, required by section IIIC.H.10. b.ii of the permit, are provided in Appendix G. Hydrograph data include synchronous measurements and measurements taken during sampling. Average water elevations in the three hydrostratigraphic units beneath the FASB for the past four quarters are shown in the following table.

Average Water Elevations (ft msl) in the Hydrostratigraphic Units Beneath the FASB

Unit	1Q94	2Q94	3Q94	4Q94
Aquifer Zone IIB ₂ (Water Table)	209.72	211.86	211.78	211.66
Aquifer Zone IIB ₁ (Barnwell/McBean)	205.74	205.37	205.23	204.73
Aquifer Unit IIA (Congaree, upper portion)	153.28	153.86	153.90	153.78
Aquifer Unit IIA (Congaree, lower portion)	156.13	155.75	155.39	155.60

During third quarter 1994, the average water elevation in Aquifer Zone IIB₂ (Water Table) declined 0.08 ft compared to second quarter 1994; the average water level in Aquifer Zone IIB₁ (Barnwell/McBean) declined 0.14 ft; the average water level in the upper portion of Aquifer Unit IIA (Congaree) rose 0.04 ft; and the average water level in the lower portion of Aquifer Unit IIA (Congaree) declined 0.36 ft.

During fourth quarter 1994, the average water elevation in Aquifer Zone IIB₂ (Water Table) declined 0.12 ft compared to third quarter 1994; the average water level in Aquifer Zone IIB₁ (Barnwell/McBean) declined 0.50 ft; the average water level in the upper portion of Aquifer Unit IIA (Congaree) declined 0.12 ft; and the average water level in the lower portion of Aquifer Unit IIA (Congaree) rose 0.21 ft.

A consistent vertical head relationship exists among the hydrostratigraphic units monitored at the FASB (WSRC, 1992a, Section E). Flow potential is downward from Aquifer Zone IIB₂ (Water Table) to Aquifer Zone IIB₁ (Barnwell/McBean) and downward from Aquifer Zone IIB₁ (Barnwell/McBean) to Aquifer Unit IIA (Congaree). The heterogeneous nature of the confining zone that separates Aquifer Zone IIB₂ (Water Table) from Aquifer Zone IIB₁ (Barnwell/McBean) may influence vertical flow rates between these two units. A head reversal exists between the lower and

upper portions of Aquifer Unit IIA (Congaree) at the FASB, which indicates the potential for upward flow within the aquifer. This vertical head relationship among the different monitored units has remained essentially unchanged through past quarters.

Groundwater Flow Rates and Directions

Piezometric and potentiometric maps for the monitored water-bearing units (Figures 32 through 37, Appendix C) illustrate flow patterns beneath the FASB for third and fourth quarters 1994. Large-scale piezometric and potentiometric maps for each hydrostratigraphic unit during third and fourth quarters 1994, required by section IIIC.H.10.b.v of the permit, are located in Volume II of this report. Calculations for Aquifer Unit IIA (Congaree) were derived using wells in the upper portion of this unit.

In the past, when SRS grid coordinates were used, flows in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) were generally reported as south or south-southwest toward Fourmile Branch. Using universal transverse Mercator (UTM) coordinates, flow in Aquifer Zone IIB₂ (Water Table) was south or south-southeast and flow in Aquifer Zone IIB₁ (Barnwell/McBean) was southeast or south-southeast during third and fourth quarters 1994. Flow in Aquifer Unit IIA (Congaree) was northwest toward Upper Three Runs Creek, consistent with the direction reported in previous quarters.

Horizontal flow rate estimates for the hydrostratigraphic units during third and fourth quarters are provided in the following table.

Horizontal Groundwater Flow Rates (ft/year) in the Hydrostratigraphic Units Beneath the FASB

Unit	3Q94	4Q94
Aquifer Zone IIB ₂ (Water Table)	95–120	95–120
Aquifer Zone IIB ₁ (Barnwell/McBean)	84–220	100–180
Aquifer Unit IIA (Congaree)	510	510

Horizontal flow rate calculations provide estimates of the transport rate for constituents originating from the FASB. Flow rates in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) are calculated along two flow paths (designated flow paths A and B) to characterize the approximate maximum and minimum groundwater flow rates within these units in areas downgradient from the basins. The flow rate in Aquifer Unit IIA (Congaree) is calculated along a single flow path because the flow direction within this unit is generally more uniform than in the overlying units. Flow rates are estimated using the following equation:

$$\text{Flow (ft/day)} = \frac{\text{Hydraulic Conductivity (ft/day)}}{\text{Porosity (unitless)}} \times \frac{dh \text{ (ft)}}{dl \text{ (ft)}}$$

The hydraulic conductivity (Kh) constant for Aquifer Zone IIB₂ (Water Table) is 10 ft/day; for Aquifer Zone IIB₁ (Barnwell/McBean), Kh = 10.4 ft/day; and for Aquifer Unit IIA (Congaree), Kh = 65 ft/day (Geraghty & Miller, 1990). An effective porosity value of 20 percent is used for each hydrostratigraphic unit (Jaegge et al., 1987). The value dh is the difference in head, and dl is the length of the flow path.

Flow path length is calculated to the nearest 100 ft. Flow rate per day is calculated to two significant digits, then multiplied by 365 and rounded to two significant digits for the flow rate per year. Flow rate estimates vary depending on the vertical gradient between wells, the size of the area under consideration, the number of data points, and the length and location of the flow path. Because these calculations are based on inferred or estimated parameters, flow rate estimates should be considered accurate to an order of magnitude only.

Groundwater flow rates were calculated for third quarter 1994 as follows:

- Aquifer Zone IIB₂ (Water Table) (Figure 32, Appendix C)

Flow path A

$$\frac{10}{0.20} \times \frac{10}{1,950} \approx 0.26 \text{ ft/day}$$

$$0.26 \text{ ft/day} \times 365 \text{ days} \approx 95 \text{ ft/year}$$

Flow path B

$$\frac{10}{0.20} \times \frac{12}{1,900} \approx 0.32 \text{ ft/day}$$

$$0.32 \text{ ft/day} \times 365 \text{ days} \approx 120 \text{ ft/year}$$

- Aquifer Zone IIB₁ (Barnwell/McBean) (Figure 34, Appendix C)

Flow path A

$$\frac{10.4}{0.20} \times \frac{10}{2,300} \approx 0.23 \text{ ft/day}$$

$$0.23 \text{ ft/day} \times 365 \text{ days} \approx 84 \text{ ft/year}$$

Flow path B

$$\frac{10.4}{0.20} \times \frac{16}{1,400} \approx 0.59 \text{ ft/day}$$

$$0.59 \text{ ft/day} \times 365 \text{ days} \approx 220 \text{ ft/year}$$

- Aquifer Unit IIA (Congaree) (Figure 36, Appendix C)

$$\frac{65}{0.20} \times \frac{7}{1,650} \approx 1.4 \text{ ft/day}$$

$$1.4 \text{ ft/day} \times 365 \text{ days} \approx 510 \text{ ft/year}$$

Groundwater flow rates were calculated for fourth quarter 1994 as follows:

- Aquifer Zone IIB₂ (Water Table) (Figure 33, Appendix C)

Flow path A

$$\frac{10}{0.20} \times \frac{10}{1,950} \approx 0.26 \text{ ft/day}$$

$$0.26 \text{ ft/day} \times 365 \text{ days} \approx 95 \text{ ft/year}$$

Flow path B

$$\frac{10}{0.20} \times \frac{12}{1,850} \approx 0.32 \text{ ft/day}$$

$$0.32 \text{ ft/day} \times 365 \text{ days} \approx 120 \text{ ft/year}$$

- Aquifer Zone IIB₁ (Barnwell/McBean) (Figure 35, Appendix C)

Flow path A

$$\frac{10.4}{0.20} \times \frac{12}{2,200} \approx 0.28 \text{ ft/day}$$

$$0.28 \text{ ft/day} \times 365 \text{ days} \approx 100 \text{ ft/year}$$

Flow path B

$$\frac{10.4}{0.20} \times \frac{16}{1,700} \approx 0.49 \text{ ft/day}$$

$$0.49 \text{ ft/day} \times 365 \text{ days} \approx 180 \text{ ft/year}$$

- Aquifer Unit IIA (Congaree) (Figure 37, Appendix C)

$$\frac{65}{0.20} \times \frac{8}{1,800} \approx 1.4 \text{ ft/day}$$

$$1.4 \text{ ft/day} \times 365 \text{ days} \approx 510 \text{ ft/year}$$

Upgradient and Background Results

Wells FSB108D and 109D are the upgradient wells for Aquifer Zone IIB₂ (Water Table) (Figure 5, Appendix C). Although well FSB 76 lies upgradient of the facility, it is not considered an upgradient well because it is downgradient of a collapsed process sewer line that has contaminated the groundwater. Well FSB 76C is the upgradient well for Aquifer Zone IIB₁ (Barnwell/McBean) (Figure 6, Appendix C). Wells FSB 78B, 79B, 112A, and 113A are upgradient wells for the upper

portion of Aquifer Unit IIA (Congaree), and wells FSB 78A and 79A are upgradient wells for the lower portion of Aquifer Unit IIA (Congaree) (Figure 7, Appendix C).

During the second half of 1994, upgradient wells FSB108D, 109D, and 113A contained elevated levels of aluminum. Upgradient wells FSB 78B and 112A contained elevated levels of iodine-129. Upgradient wells FSB 76C, 78A, 79A, 108D, 109D, and 113A exhibited pH values that exceeded the GWPS. Upgradient wells FSB108D and 109D contained elevated levels of zinc. Upgradient well FSB 78B contained elevated levels of cyanide and nitrate. Upgradient wells FSB 78B, 79B, 109D, 112A, and 113A contained elevated levels of tritium, and FSB112A also contained an elevated level of dichloromethane.

Wells FSB 76C and 108D and well HSB 85A are the designated background wells for the FASB. Aluminum, pH, and zinc were the only parameters exceeding GWPS in one or more of the background wells. Well HSB 85A did not contain any elevated constituents during the second half of 1994.

Conclusions

The groundwater at the FASB contains elevated levels of radionuclides and chemicals from 30 years of receiving contaminated waste water from the F-Area Separations Area. During the second half of 1994, 30 parameters exceeded the GWPS in wells at the FASB. Elevated constituents occurred in 84 of the 87 FSB wells monitoring the FASB and in 8 of the 9 FSL monitoring wells.

Aluminum and zinc were the primary metals that exceeded the GWPS during the second half of 1994. Aluminum occurred at a maximum concentration of 110,000 $\mu\text{g/L}$ in well FSB 97C during third quarter 1994, and zinc was found at a maximum concentration of 640 $\mu\text{g/L}$ in well FSB106D during third quarter 1994. Barium, cadmium, cobalt, copper, cyanide, lead, mercury, and nickel also exceeded the GWPS in one or more FSB wells during the second half of 1994.

Nitrate and pH, which are monitored along with aluminum as water-quality indicator parameters, exceeded the GWPS in numerous FSB wells during the second half of 1994. Nitrate concentrations for wells FSB 94DR, 95CR, 95DR, 97C, 97D, 98C, 98D, 104D, and 107D were unusually high during fourth quarter 1994 compared to previous quarters. These values, which generally were 5 to 10 times higher than results for first, second, and third quarters 1994, were confirmed by the analytical laboratory. Most of the pH results exceeded the acidic standard of 6.8 pH units. Dichloromethane, a common laboratory contaminant, was elevated in 3 wells, and trichloroethylene and trichlorofluoromethane were found at elevated levels in 1 FSB well each.

During the second half of 1994, americium-241, curium-243/244, gross alpha, iodine-129, non-volatile beta, radium-228, strontium-90, tritium, uranium-233/234, and uranium-238 were the primary radionuclides detected at elevated levels at the FASB, each occurring in 16 or more FSB wells during at least one quarter. These constituents exhibited the following maximum activities: americium-241 at $1.2\text{E}+02$ pCi/L during third quarter 1994 in well FSB 95DR, curium-243/244 at $2.0\text{E}+02$ pCi/L during third quarter 1994 in well FSB 94DR, gross alpha at $1.1\text{E}+04$ pCi/L during fourth quarter 1994 in well FSB 94DR, iodine-129 at $5.1\text{E}+02$ pCi/L during third quarter 1994 in well FSB 89D, nonvolatile beta at $3.5\text{E}+03$ pCi/L during fourth quarter 1994 in well FSB 89D, radium-228 at $5.6\text{E}+01$ pCi/L during third quarter 1994 in well FSB 94DR, strontium-90 at $1.2\text{E}+03$ pCi/L during third quarter 1994 in well FSB112D, tritium at $2.2\text{E}+04$ pCi/mL during third quarter 1994 in well FSB110D, uranium-233/234 at $6.0\text{E}+02$ pCi/L during third quarter 1994 in well FSB 94DR, and uranium-238 at $1.6\text{E}+03$ pCi/L during third quarter 1994 in well FSB 95DR. Elevated activities of cesium-137, radium-226, strontium-89¹, thorium-234, and uranium-235 also were detected during this period.

The constituents that occurred most frequently in FSB wells during the second half of 1994 are the same as those that occurred most frequently during the first half of 1994. During the first half of 1994, aluminum, gross alpha, iodine-129, nitrate, nonvolatile beta, tritium, and zinc were elevated in 37 or more FSB wells each. These same constituents were elevated in 34 or more FSB wells each during the second half of 1994.

As in previous quarters, elevated constituents were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean). Also as in previous quarters, several constituents at levels exceeding the GWPS occurred in one or more FSB wells in Aquifer Unit IIA (Congaree), indicating that vertical pathways into the deeper water-bearing units exist at the FASB. A

current groundwater flow model for the Separations Area indicates that the vertical component beneath this area is important as a constituent pathway (GeoTrans, Inc., 1992).

During the second half of 1994, upgradient FSB wells contained elevated levels of aluminum, cyanide, dichloromethane, iodine-129, nitrate, pH, tritium, or zinc. Downgradient FSB wells contained elevated levels of numerous metals and radionuclides and several other constituents. Generally, constituents found in wells upgradient of a waste management unit are considered to be from a source other than the waste management unit; constituents found in downgradient wells but not in upgradient wells at a waste management unit are considered products of the waste management unit.

The following constituents exceeded the GWPS in FSL wells during the second half of 1994: aluminum, gross alpha, lead, mercury, nitrate, nonvolatile beta, pH, trichloroethylene, trichlorofluoromethane, tritium, and zinc.

Groundwater flow directions beneath the FASB have remained relatively unchanged for several years. Flow in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) is generally south to southeast toward Fourmile Branch (using UTM coordinates). Flow in Aquifer Unit IIA (Congaree) is generally northwest toward Upper Three Runs Creek.

The estimated groundwater flow rate during third and fourth quarters of 1994 ranged from approximately 95 to 120 ft/year in Aquifer Zone IIB₂ (Water Table). The flow rate in Aquifer Zone IIB₁ (Barnwell/McBean) ranged from approximately 84 to 220 ft/year during third quarter 1994 and from approximately 100 to 180 ft/year during fourth quarter 1994. The flow rate in Aquifer Unit IIA (Congaree) was estimated at 510 ft/year during both third and fourth quarters of 1994.

Endnote

¹WSRC has documented that strontium-89 is not present in detectable quantities on the site based on the last known operations date for processes that produced the radionuclide and the relative half-lives of strontium-89 and strontium-90 (Environmental Restoration Department memorandum WSRC-RP-93-1060 from H. P. Holcomb to M. A. Ebra, *Strontium-89—an unnecessary contaminant of concern in SRS environmental samples* (U), July 28, 1993). Positive results reported for strontium-89 in SRS environmental samples are considered to originate from error in the analytical method.

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- SCDHEC (South Carolina Department of Health and Environmental Control), 1990. **South Carolina Hazardous Waste Management Regulations**; R.61-79.124, .260 through .266, .268, and .270; November 1990. Columbia, SC.
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- WSRC (Westinghouse Savannah River Company), 1990. **Application for a Hazardous Waste Part B Post-Closure Care Permit. Volume IV. F-Area Hazardous Waste Management Facility**. Revision 2, December 3, 1990. Savannah River Site, Aiken, SC.

WSRC (Westinghouse Savannah River Company), 1992a. **Application for a Hazardous Waste Part B Post-Closure Care Permit. Volume IV. F-Area Hazardous Waste Management Facility.** Revision 3, March 13, 1992. Savannah River Site, Aiken, SC.

WSRC (Westinghouse Savannah River Company), 1992b. *Sampling Groundwater Monitoring Wells, Hydrogeologic Data Collection Procedures and Specifications*, Manual 3Q5, Rev. 1, Chapter 15. Savannah River Site, Aiken, SC.

Errata

Third and Fourth Quarters 1993:

- Page D-32, Table 3: The results for tritium should be flagged as follows: activities equal to or greater than $2E+01$ pCi/mL should have a Flag 2, and activities equal to or greater than $1E+01$ pCi/mL but less than $2E+01$ pCi/mL should have a Flag 1.

First and Second Quarters 1994:

- Page C-31, Figure 29: Wells FSB110D and 112D were omitted from the 10,000 pCi/mL contour. See the following page for the corrected map.
- Appendix F: The time series plot for gross alpha activities for well FSB117D was omitted inadvertently from the report. The plot is included on page 24 of this report.

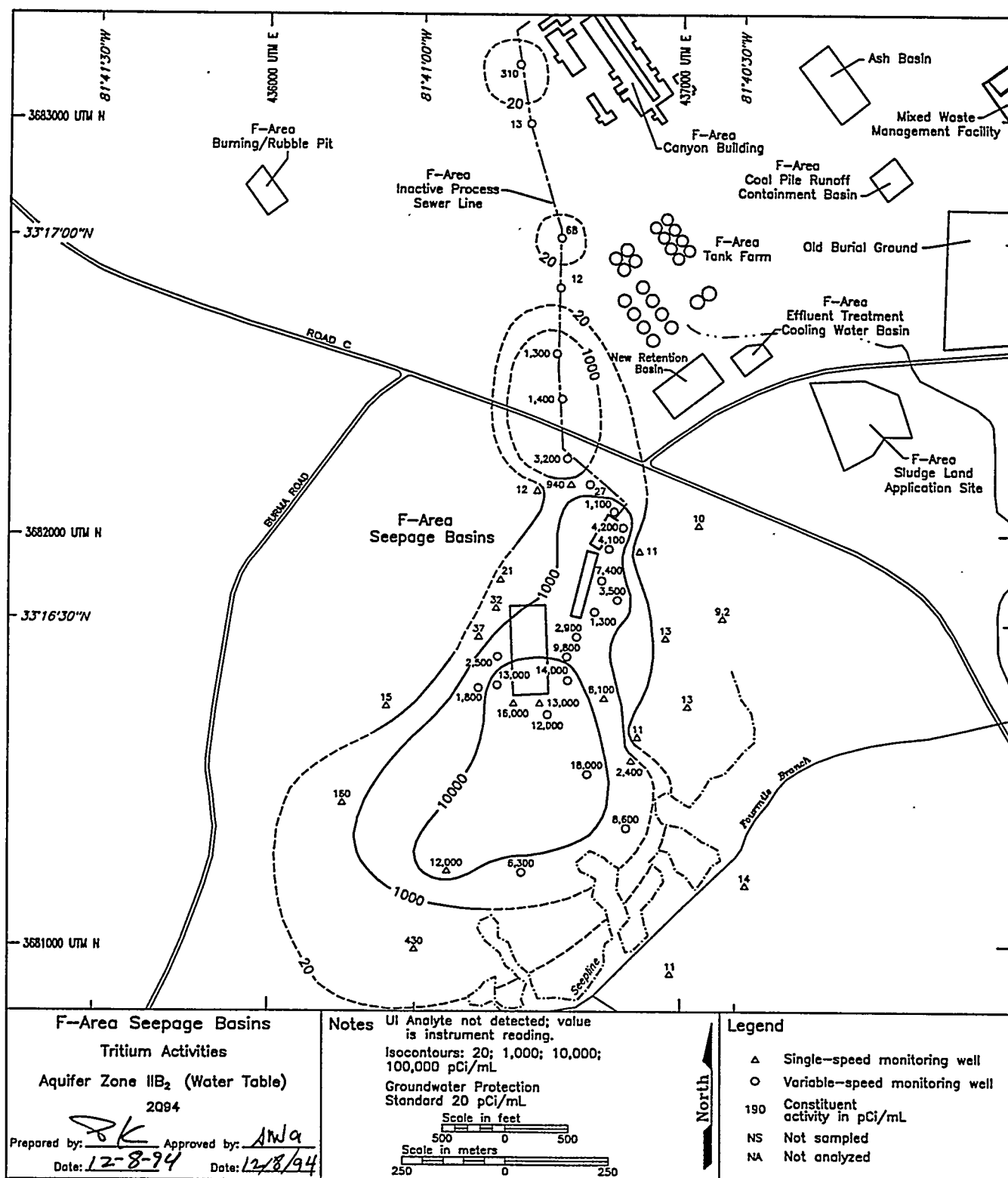
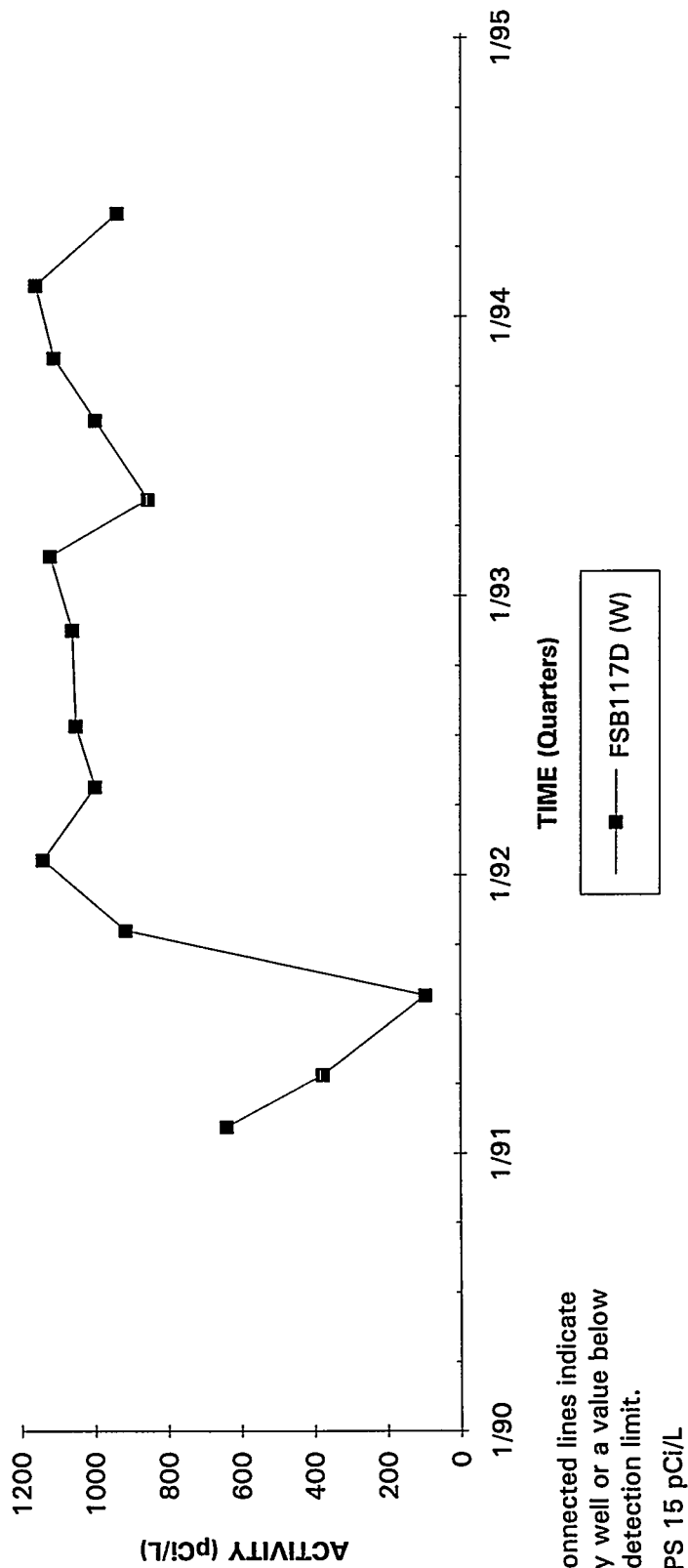


Figure 29. Tritium Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Second Quarter 1994

Gross Alpha Activities Well FSB117D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Appendix A

Standards

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Table 1. Groundwater Protection Standards

Established for the F-Area Seepage Basins by the September 30, 1992, modification of South Carolina Hazardous Waste Permit SC1-890-008-989.

<u>Analyte</u>	<u>Unit</u>	<u>Concentration/Activity Limit</u>
<i>SCHWMMR 264.94 Table 1 Hazardous Constituents</i>		
Arsenic	µg/L	50
Barium	µg/L	1,000
Cadmium	µg/L	10
Chromium	µg/L	50
Lead	µg/L	50
Mercury	µg/L	2
Selenium	µg/L	10
Silver	µg/L	50
<i>SCHWMMR 261 Appendix VIII/CFR 264 Appendix IX Hazardous Constituents</i>		
Antimony	µg/L	30
Benzene	µg/L	5
Cobalt	µg/L	70
Copper	µg/L	60
Cyanide	µg/L	5 ^a
Nickel	µg/L	50
Phenols ^b	µg/L	5
Tetrachloroethylene	µg/L	5
Thallium	µg/L	10
Trichloroethylene	µg/L	5
Trichlorofluoromethane	µg/L	5
Vanadium	µg/L	80
Zinc	µg/L	20
<i>Water Quality Indicator Parameters</i>		
Aluminum	µg/L	50-200 ^c
Nitrate	µg/L	10,000
pH	pH	6.8-8.5
<i>Common Laboratory Contaminants</i>		
Bis(2-ethylhexyl) phthalate	µg/L	10
Dichloromethane (Methylene chloride)	µg/L	5
<i>Radiological Indicator Parameters</i>		
Gross alpha	pCi/L	15
Nonvolatile beta	pCi/L	50 ^d
<i>Measured Radionuclides^e</i>		
Actinium-228	pCi/L	3.27E+03
Americium-241	pCi/L	6.34E+00
Cesium-137	pCi/L	2E+02

<u>Analyte</u>	<u>Unit</u>	<u>Concentration/Activity Limit</u>
Cobalt-60	pCi/L	1E+02
Curium-242	pCi/L	1.33E+02
Curium-243/244	pCi/L	8.3E+00
Curium-245-246	pCi/L	6.23E+00
Curium-246	pCi/L	6.27E+00
Iodine-129	pCi/L	1E+00
Plutonium-238	pCi/L	7.02E+00
Plutonium-239/240	pCi/L	6.21E+01
Radium-226	pCi/L	2E+01
Radium-228	pCi/L	2E+01
Radium, total (Radium-226 and -228)	pCi/L	5E+00
Strontium-89	pCi/L	2E+01
Strontium-90	pCi/L	8E+00
Technetium-99	pCi/L	9E+02
Thorium-228	pCi/L	1.25E+02
Thorium-230	pCi/L	7.92E+01
Thorium-232	pCi/L	8.8E+01
Thorium-234	pCi/L	4.01E+02
Tritium	pCi/mL	2.0E+01
Uranium-233/234	pCi/L	1.38E+01
Uranium-235	pCi/L	1.45E+01
Uranium-238	pCi/L	1.46E+01

Calculated Radionuclides^f

Americium-243	pCi/L	6.37E+00
Nickel-63	pCi/L	5E+01
Plutonium-241	pCi/L	6.26E+01
Plutonium-242	pCi/L	6.54E+01

- ^a The suggested analytical method for cyanide in Appendix IX (EPA, 1992) is 9010, with a PQL of 40 $\mu\text{g/L}$; however, the method specified in the SRS contract with the analytical laboratory for analyzing cyanide in the Appendix IX suite is 9012, with a PQL of 5 $\mu\text{g/L}$.
- ^b Phenols is not an Appendix VIII or IX constituent. The method specified in the SRS contract with the analytical laboratory for analyzing phenols is 420.2, with a PQL of 5 $\mu\text{g/L}$.
- ^c SRS takes a conservative approach by flagging aluminum results at the bottom of this range.
- ^d This is the screening level above which providers of public drinking water should perform analyses for specific man-made radionuclides. The standard for the total dose equivalent from all such radionuclides is 4 mrem per year.
- ^e The activity limits used in this report are final or proposed drinking water standards. When radionuclide analyses are combined, the lower standard of the two isotopes is used. The GWPS is based on background levels, not drinking water standards. A study to establish such levels at SRS is being conducted; results are expected for use in the 1993 annual report.
- ^f The activities of these radionuclides were calculated as ratios of measured activities of other radionuclides. The activity ratios are as follows: americium-243/curium-243/244 $\approx 3\text{E-}03$; nickel-63/cobalt-60 ≈ 1 ; plutonium-241/plutonium-239/240 ≈ 4 ; and plutonium-242/plutonium-239/240 $\approx 2\text{E-}05$.

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Table 2. Final Primary Drinking Water Standards

Analyte	Unit	Level	Status	Source
Antimony	µg/L	6	Final	EPA, 1992b
Arsenic	µg/L	50	Final	EPA, 1992a
Asbestos	Fibers/L	7,000,000	Final	EPA, 1992a
Barium	µg/L	2,000	Final	EPA, 1992a
Benzene	µg/L	5	Final	EPA, 1992a
Benzo[a]pyrene	µg/L	0.2	Final	EPA, 1992b
Beryllium	µg/L	4	Final	EPA, 1992b
Bis(2-ethylhexyl) phthalate	µg/L	6	Final	EPA, 1992b
Bromodichloromethane	µg/L	100 ^a	Final	EPA, 1992a
Bromoform	µg/L	100 ^a	Final	EPA, 1992a
2-sec-Butyl-4,6-dinitrophenol	µg/L	7	Final	EPA, 1992b
Cadmium	µg/L	5	Final	EPA, 1992a
Carbon tetrachloride	µg/L	5	Final	EPA, 1992a
Chlordane	µg/L	2	Final	EPA, 1992a
Chlorobenzene	µg/L	100	Final	EPA, 1992a
Chloroethene (Vinyl chloride)	µg/L	2	Final	EPA, 1992a
Chloroform	µg/L	100 ^a	Final	EPA, 1992a
Chromium	µg/L	100	Final	EPA, 1992a
Copper	µg/L	1,300	Final	EPA, 1993
Cyanide	µg/L	200	Final	EPA, 1992b
Dibromochloromethane	µg/L	100 ^a	Final	EPA, 1992a
Dibromochloropropane	µg/L	0.2	Final	EPA, 1992a
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	Final	EPA, 1992a
1,2-Dichlorobenzene	µg/L	600	Final	EPA, 1992a
1,4-Dichlorobenzene	µg/L	75	Final	EPA, 1992a
1,2-Dichloroethane	µg/L	5	Final	EPA, 1992a
1,1-Dichloroethene	µg/L	7	Final	EPA, 1992a
1,2-Dichloroethene	µg/L	50	Final	EPA, 1992b
cis-1,2-Dichloroethene	µg/L	70	Final	EPA, 1992a
trans-1,2-Dichloroethene	µg/L	100	Final	EPA, 1992a
Dichloromethane (Methylene chloride)	µg/L	5	Final	EPA, 1992b
2,4-Dichlorophenoxyacetic acid	µg/L	70	Final	EPA, 1992a
1,2-Dichloropropane	µg/L	5	Final	EPA, 1992a
Endrin	µg/L	2	Final	EPA, 1992b
Ethylbenzene	µg/L	700	Final	EPA, 1992a
Fluoride	µg/L	4,000	Final	EPA, 1992a
Gross alpha ^b	pCi/L	1.5E+01	Final	EPA, 1992a
Heptachlor	µg/L	0.4	Final	EPA, 1992a
Heptachlor epoxide	µg/L	0.2	Final	EPA, 1992a
Hexachlorobenzene	µg/L	1	Final	EPA, 1992b
Hexachlorocyclopentadiene	µg/L	50	Final	EPA, 1992b
Lead	µg/L	50	Final	SCDHEC, 1981
Lindane	µg/L	0.2	Final	EPA, 1992a
Mercury	µg/L	2	Final	EPA, 1992a
Methoxychlor	µg/L	40	Final	EPA, 1992a
Nickel	µg/L	100	Final	EPA, 1992b
Nitrate as nitrogen	µg/L	10,000	Final	EPA, 1992a
Nitrate-nitrite as nitrogen	µg/L	10,000	Final	EPA, 1992a
Nitrite as nitrogen	µg/L	1,000	Final	EPA, 1992a
Nonvolatile beta ^c	pCi/L	5E+01	Final	EPA, 1977
PCBs ^d	µg/L	0.5	Final	EPA, 1992a
Pentachlorophenol	µg/L	1	Final	EPA, 1992a
Selenium	µg/L	50	Final	EPA, 1992a

<u>Analyte</u>	<u>Unit</u>	<u>Level</u>	<u>Status</u>	<u>Source</u>
Strontium-89/90 ^e	pCi/L	8E+00	Final	EPA, 1992a
Strontium-90	pCi/L	8E+00	Final	EPA, 1992a
Styrene	µg/L	100	Final	EPA, 1992a
2,3,7,8-TCDD	µg/L	0.00003	Final	EPA, 1992b
Tetrachloroethylene	µg/L	5	Final	EPA, 1992a
Thallium	µg/L	2	Final	EPA, 1992b
Toluene	µg/L	1,000	Final	EPA, 1992a
Total trihalomethanes	µg/L	100	Final	EPA, 1992a
Toxaphene	µg/L	3	Final	EPA, 1992a
2,4,5-TP (Silvex)	µg/L	50	Final	EPA, 1992a
1,2,4-Trichlorobenzene	µg/L	70	Final	EPA, 1992b
1,1,1-Trichloroethane	µg/L	200	Final	EPA, 1992a
1,1,2-Trichloroethane	µg/L	5	Final	EPA, 1992b
Trichloroethylene	µg/L	5	Final	EPA, 1992a
Tritium	pCi/mL	2E+01	Final	EPA, 1992a
Xylenes	µg/L	10,000	Final	EPA, 1992a

Note: Final PDWS were assigned to alachlor, aldicarb, aldicarb sulfone, aldicarb sulfoxide, atrazine, carbofuran, dalapon, di(2-ethylhexyl) adipate, diquat dibromide, endothall, glyphosate, oxamyl, picloram, and simazine in the SRS Groundwater Monitoring Program for the first time beginning first quarter 1994.

- ^a This value is the drinking water standard for total trihalomethanes (the sum of bromodichloromethane, bromoform, chloroform, and dibromochloromethane).
- ^b The standard given is for gross alpha including radium-226 but excluding radon and uranium.
- ^c This is the screening level above which providers of public drinking water should perform analyses for specific man-made radionuclides. The standard for the total dose equivalent from all such radionuclides is 4 mrem per year.
- ^d Analyses were conducted in 1994 for the following: PCB 1016, PCB 1221, PCB 1232, PCB 1242, PCB 1248, PCB 1254, and PCB 1260.
- ^e For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.

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Appendix B

Flagging Criteria

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Flagging Criteria

The Savannah River Site Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) flagging criteria are as follows:

- Flag 2 criteria for constituents equal the Safe Drinking Water Act (SDWA) final Primary Drinking Water Standards (PDWS), the SDWA proposed PDWS, or the SDWA Secondary Drinking Water Standards (SDWS). If a constituent does not have a drinking water standard, the Flag 2 criterion equals 10 times the method detection limit (MDL) calculated as the 90th percentile detection limit obtained recently by one of the primary analytical laboratories.
- Flag 1 criteria for constituents equal one-half of the final PDWS, one-half the proposed PDWS, or one-half the SDWS. If a constituent does not have a drinking water standard, the Flag 1 criterion equals 5 times the MDL calculated as the 90th percentile detection limit obtained recently by one of the primary analytical laboratories.
- Flag 0 criteria are assigned to constituent levels below Flag 1 criteria, constituent levels below the sample detection limits, or constituents having no flagging criteria.

The following parameters are exceptions to the flagging rules:

- EPD/EMS sets flagging criteria for pH and specific conductance. No flags are set for alkalinity, calcium, carbonate, magnesium, potassium, silica, sodium, total dissolved solids, total phosphates (as P), and total phosphorus. Analyses for these parameters are conducted as part of the biennial comprehensive analyses or by special request.
- Aesthetic parameters such as color, corrosivity, Eh, odor, surfactants, and turbidity are not assigned flagging criteria but are analyzed by special request.
- Common laboratory contaminants and cleaners such as dichloromethane (methylene chloride), ketones, phthalates, and toluene are not assigned flagging criteria unless they have primary drinking water standards. These constituents are analyzed by special request.

Analyte	Unit	Flag 1	Flag 2	Source ^a
Acenaphthene	µg/L	50	100	EPA Method 8270
Acenaphthylene	µg/L	50	100	EPA Method 8270
Acetone	µg/L	500	1,000	EPA Method 8240
Acetonitrile (Methyl cyanide)	µg/L	500	1,000	EPA Method 8240
Acetophenone	µg/L	50	100	EPA Method 8270
2-Acetylaminofluorene	µg/L	50	100	EPA Method 8270
Acrolein	µg/L	100	200	EPA Method 8240
Acrylonitrile	µg/L	100	200	EPA Method 8240
Actinium-228	pCi/L	1.64E+03	3.27E+03	Proposed PDWS (EPA, 1991)
Alachlor	µg/L	1	2	Final PDWS (EPA, 1993a)
Aldicarb ^b	µg/L	1.5	3	Final PDWS (EPA, 1993a)
Aldicarb sulfone ^b	µg/L	1	2	Final PDWS (EPA, 1993a)
Aldicarb sulfoxide ^b	µg/L	2	4	Final PDWS (EPA, 1993a)
Aldrin	µg/L	0.25	0.5	EPA Method 8080
Alkalinity (as CaCO ₃)		No flag	No flag	Set by EPD/EMS
Allyl chloride	µg/L	250	500	EPA Method 8240
Aluminum	µg/L	25	50	SDWS (EPA, 1993b)
Aluminum, dissolved	µg/L	25	50	SDWS (EPA, 1993b)
Aluminum, total recoverable	µg/L	25	50	SDWS (EPA, 1993b)

Analyte	Unit	Flag 1	Flag 2	Source
Americium-241	pCi/L	3.17E+00	6.34E+00	Proposed PDWS (EPA, 1991)
Americium-243	pCi/L	3.19E+00	6.37E+00	Proposed PDWS (EPA, 1991)
4-Aminobiphenyl	µg/L	50	100	EPA Method 8270
Ammonia	µg/L	500	1,000	APHA Method 417B
Ammonia nitrogen	µg/L	500	1,000	EPA Method 350.1
Aniline	µg/L	50	100	EPA Method 8270
Anthracene	µg/L	50	100	EPA Method 8270
Antimony	µg/L	3	6	Final PDWS (EPA, 1993a)
Antimony, dissolved	µg/L	3	6	Final PDWS (EPA, 1993a)
Antimony, total recoverable	µg/L	3	6	Final PDWS (EPA, 1993a)
Antimony-125	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Aramite	µg/L	50	100	EPA Method 8270
Arsenic	µg/L	25	50	Final PDWS (EPA, 1993a)
Arsenic, dissolved	µg/L	25	50	Final PDWS (EPA, 1993a)
Arsenic, total recoverable	µg/L	25	50	Final PDWS (EPA, 1993a)
Asbestos	Fibers/L	3,500,000	7,000,000	Final PDWS (EPA, 1993a)
Atrazine	µg/L	1.5	3	Final PDWS (EPA, 1993a)
Azobenzene	µg/L	50	100	EPA Method 625
Barium	µg/L	1,000	2,000	Final PDWS (EPA, 1993a)
Barium, dissolved	µg/L	1,000	2,000	Final PDWS (EPA, 1993a)
Barium, total recoverable	µg/L	1,000	2,000	Final PDWS (EPA, 1993a)
Barium-140 ^c	pCi/L	4.5E+01	9E+01	Interim Final PDWS (EPA, 1977)
Benzene	µg/L	2.5	5	Final PDWS (EPA, 1993a)
alpha-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
beta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
delta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
Benzidine	µg/L	250	500	EPA Method 8270
Benzo[a]anthracene	µg/L	0.05	0.1	Proposed PDWS (EPA, 1990)
Benzo[b]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzo[k]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzoic acid	µg/L	250	500	EPA Method 8270
Benzo[g,h,i]perylene	µg/L	50	100	EPA Method 8270
Benzo[a]pyrene	µg/L	0.1	0.2	Final PDWS (EPA, 1993a)
1,4-Benzquinone	µg/L	50	100	EPA Method 8270
Benzyl alcohol	µg/L	50	100	EPA Method 8270
Beryllium	µg/L	2	4	Final PDWS (EPA, 1993a)
Beryllium, dissolved	µg/L	2	4	Final PDWS (EPA, 1993a)
Beryllium, total recoverable	µg/L	2	4	Final PDWS (EPA, 1993a)
Beryllium-7	pCi/L	3E+03	6E+03	Interim Final PDWS (EPA, 1977)
Bis(2-chloroethoxy) methane	µg/L	50	100	EPA Method 8270
Bis(2-chloroethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-chloroisopropyl) ether	µg/L	50	100	EPA Method 8270
Bis(chloromethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-ethylhexyl) phthalate	µg/L	3	6	Final PDWS (EPA, 1993a)
Bismuth-214	pCi/L	9.4E+03	1.89E+04	Proposed PDWS (EPA, 1991)
Boron	µg/L	150	300	EPA Method 6010
Boron, dissolved	µg/L	150	300	EPA Method 6010
Boron, total recoverable	µg/L	150	300	EPA Method 6010
Bromide	µg/L	5,000	10,000	EPA Method 300.0
Bromodichloromethane	µg/L	50	100	Final PDWS (EPA, 1993a)
Bromoform	µg/L	50	100	Final PDWS (EPA, 1993a)
Bromomethane (Methyl bromide)	µg/L	5	10	EPA Method 8240
4-Bromophenyl phenyl ether	µg/L	50	100	EPA Method 8270
Butylbenzyl phthalate		No flag	No flag	Set by EPD/EMS
2-sec-Butyl-4,6-dinitrophenol	µg/L	3.5	7	Final PDWS (EPA, 1993a)

Analyte	Unit	Flag 1	Flag 2	Source
Cadmium	µg/L	2.5	5	Final PDWS (EPA, 1993a)
Cadmium, dissolved	µg/L	2.5	5	Final PDWS (EPA, 1993a)
Cadmium, total recoverable	µg/L	2.5	5	Final PDWS (EPA, 1993a)
Calcium		No flag	No flag	Set by EPD/EMS
Calcium, dissolved		No flag	No flag	Set by EPD/EMS
Calcium, total recoverable		No flag	No flag	Set by EPD/EMS
Carbofuran	µg/L	20	40	Final PDWS (EPA, 1993a)
Carbon-14	pCi/L	1E+03	2E+03	Interim Final PDWS (EPA, 1977)
Carbonate		No flag	No flag	Set by EPD/EMS
Carbon disulfide	µg/L	5	10	EPA Method 8240
Carbon tetrachloride	µg/L	2.5	5	Final PDWS (EPA, 1993a)
Cerium-141 ^c	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Cerium-144	pCi/L	1.31E+02	2.61E+02	Proposed PDWS (EPA, 1991)
Cesium-134 ^d	pCi/L	4.07E+01	8.13E+01	Proposed PDWS (EPA, 1991)
Cesium-137	pCi/L	1E+02	2E+02	Interim Final PDWS (EPA, 1977)
Chlordane	µg/L	1	2	Final PDWS (EPA, 1993a)
Chloride	µg/L	125,000	250,000	SDWS (EPA, 1993b)
4-Chloroaniline	µg/L	50	100	EPA Method 8270
Chlorobenzene	µg/L	50	100	Final PDWS (EPA, 1993a)
Chlorobenzilate	µg/L	50	100	EPA Method 8270
4-Chloro-m-cresol	µg/L	50	100	EPA Method 8270
Chloroethane	µg/L	5	10	EPA Method 8240
Chloroethene (Vinyl chloride)	µg/L	1	2	Final PDWS (EPA, 1993a)
Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
2-Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
Chloroform	µg/L	50	100	Final PDWS (EPA, 1993a)
Chloromethane (Methyl chloride)	µg/L	5	10	EPA Method 8240
2-Chloronaphthalene	µg/L	50	100	EPA Method 8240
2-Chlorophenol	µg/L	50	100	EPA Method 8270
4-Chlorophenyl phenyl ether	µg/L	50	100	EPA Method 8270
Chloroprene	µg/L	1,000	2,000	EPA Method 8240
Chromium	µg/L	50	100	Final PDWS (EPA, 1993a)
Chromium, dissolved	µg/L	50	100	Final PDWS (EPA, 1993a)
Chromium, total recoverable	µg/L	50	100	Final PDWS (EPA, 1993a)
Chromium-51 ^c	pCi/L	3E+03	6E+03	Interim Final PDWS (EPA, 1977)
Chrysene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Cobalt	µg/L	20	40	EPA Method 6010
Cobalt, dissolved	µg/L	20	40	EPA Method 6010
Cobalt, total recoverable	µg/L	20	40	EPA Method 6010
Cobalt-57	pCi/L	5E+02	1E+03	Interim Final PDWS (EPA, 1977)
Cobalt-58 ^d	pCi/L	4.5E+03	9E+03	Interim Final PDWS (EPA, 1977)
Cobalt-60	pCi/L	5E+01	1E+02	Interim Final PDWS (EPA, 1977)
Color		No flag	No flag	Set by EPD/EMS
Copper	µg/L	500	1,000	Final PDWS (SCDHEC, 1981)
Copper, dissolved	µg/L	500	1,000	Final PDWS (SCDHEC, 1981)
Copper, total recoverable	µg/L	500	1,000	Final PDWS (SCDHEC, 1981)
Corrosivity		No flag	No flag	Set by EPD/EMS
m-Cresol (3-Methylphenol)	µg/L	50	100	EPA Method 8270
o-Cresol (2-Methylphenol)	µg/L	50	100	EPA Method 8270
p-Cresol (4-Methylphenol)	µg/L	50	100	EPA Method 8270
Curium-242	pCi/L	6.65E+01	1.33E+02	Proposed PDWS (EPA, 1991)
Curium-243	pCi/L	4.15E+00	8.3E+00	Proposed PDWS (EPA, 1991)
Curium-243/244 ^e	pCi/L	4.15E+00	8.3E+00	Proposed PDWS (EPA, 1991)
Curium-244	pCi/L	4.92E+00	9.84E+00	Proposed PDWS (EPA, 1991)
Curium-245/246 ^e	pCi/L	3.12E+00	6.23E+00	Proposed PDWS (EPA, 1991)

Analyte	Unit	Flag 1	Flag 2	Source
Curium-246	pCi/L	3.14E+00	6.27E+00	Proposed PDWS (EPA, 1991)
Cyanide	µg/L	100	200	Final PDWS (EPA, 1993a)
Dalapon ^b	µg/L	100	200	Final PDWS (EPA, 1993a)
p,p'-DDD	µg/L	0.5	1	EPA Method 8080
p,p'-DDE	µg/L	0.5	1	EPA Method 8080
p,p'-DDT	µg/L	0.5	1	EPA Method 8080
Diallate	µg/L	50	100	EPA Method 8270
Dibenz[a,h]anthracene	µg/L	0.15	0.3	Proposed PDWS (EPA, 1990)
Dibenzofuran	µg/L	50	100	EPA Method 8270
Dibromochloromethane	µg/L	50	100	Final PDWS (EPA, 1993a)
1,2-Dibromo-3-chloropropane	µg/L	0.1	0.2	Final PDWS (EPA, 1993a)
1,2-Dibromoethane	µg/L	0.025	0.05	Final PDWS (EPA, 1993a)
Dibromomethane	µg/L	5	10	EPA Method 8240
(Methylene bromide)				
Di-n-butyl phthalate		No flag	No flag	Set by EPD/EMS
1,2-Dichlorobenzene	µg/L	300	600	Final PDWS (EPA, 1993a)
1,3-Dichlorobenzene	µg/L	50	100	EPA Method 8270
1,4-Dichlorobenzene	µg/L	37.5	75	Final PDWS (EPA, 1993a)
3,3'-Dichlorobenzidine	µg/L	50	100	EPA Method 8270
trans-1,4-Dichloro-2-butene	µg/L	150	300	EPA Method 8240
Dichlorodifluoromethane	µg/L	5	10	EPA Method 8240
1,1-Dichloroethane	µg/L	5	10	EPA Method 8240
1,2-Dichloroethane	µg/L	2.5	5	Final PDWS (EPA, 1993a)
1,1-Dichloroethylene	µg/L	3.5	7	Final PDWS (EPA, 1993a)
1,2-Dichloroethylene	µg/L	25	50	Final PDWS (EPA, 1993a)
cis-1,2-Dichloroethylene	µg/L	35	70	Final PDWS (EPA, 1993a)
trans-1,2-Dichloroethylene	µg/L	50	100	Final PDWS (EPA, 1993a)
Dichloromethane	µg/L	2.5	5	Final PDWS (EPA, 1993a)
(Methylene chloride)				
2,4-Dichlorophenol	µg/L	50	100	EPA Method 8270
2,6-Dichlorophenol	µg/L	50	100	EPA Method 8270
2,4-Dichlorophenoxyacetic acid	µg/L	35	70	Final PDWS (EPA, 1993a)
1,2-Dichloropropane	µg/L	2.5	5	Final PDWS (EPA, 1993a)
cis-1,3-Dichloropropene	µg/L	5	10	EPA Method 8240
trans-1,3-Dichloropropene	µg/L	5	10	EPA Method 8240
Dieldrin	µg/L	2.5	5	EPA Method 8080
Di(2-ethylhexyl) adipate	µg/L	200	400	Final PDWS (EPA, 1993a)
Diethyl phthalate		No flag	No flag	Set by EPD/EMS
Dimethoate	µg/L	50	100	EPA Method 8270
p-Dimethylaminoazobenzene	µg/L	50	100	EPA Method 8270
p-(Dimethylamino)ethylbenzene	µg/L	50	100	EPA Method 8270
7,12-Dimethylbenz[a]anthracene	µg/L	50	100	EPA Method 8270
3,3'-Dimethylbenzidine	µg/L	50	100	EPA Method 8270
a,a-Dimethylphenethylamine	µg/L	50	100	EPA Method 8270
2,4-Dimethyl phenol	µg/L	50	100	EPA Method 8270
Dimethyl phthalate		No flag	No flag	Set by EPD/EMS
1,3-Dinitrobenzene	µg/L	50	100	EPA Method 8270
2,4-Dinitrophenol	µg/L	250	500	EPA Method 8270
2,4-Dinitrotoluene	µg/L	50	100	EPA Method 8270
2,6-Dinitrotoluene	µg/L	50	100	EPA Method 8270
Di-n-octyl phthalate		No flag	No flag	Set by EPD/EMS
1,4-Dioxane	µg/L	50	100	EPA Method 8270
Diphenylamine	µg/L	50	100	EPA Method 8270
1,2-Diphenylhydrazine	µg/L	50	100	EPA Method 8270
Diquat dibromide ^b	µg/L	10	20	Final PDWS (EPA, 1993a)

Analyte	Unit	Flag 1	Flag 2	Source
Dissolved organic carbon	µg/L	5,000	10,000	EPA Method 9060
Disulfoton	µg/L	50	100	EPA Method 8270
Eh		No flag	No flag	Set by EPD/EMS
Endosulfan I	µg/L	0.5	1	EPA Method 8080
Endosulfan II	µg/L	0.5	1	EPA Method 8080
Endosulfan sulfate	µg/L	0.5	1	EPA Method 8080
Endothall ^b	µg/L	50	100	Final PDWS (EPA, 1993a)
Endrin	µg/L	1	2	Final PDWS (EPA, 1993a)
Endrin aldehyde	µg/L	0.5	1	EPA Method 8080
Endrin ketone		No flag	No flag	Set by EPD/EMS
Ethylbenzene	µg/L	350	700	Final PDWS (EPA, 1993a)
Ethyl methacrylate	µg/L	50	100	EPA Method 8270
Ethyl methanesulfonate	µg/L	50	100	EPA Method 8270
Europium-152	pCi/L	3E+01	6E+01	Interim Final PDWS (EPA, 1977)
Europium-154	pCi/L	1E+02	2E+02	Interim Final PDWS (EPA, 1977)
Europium-155	pCi/L	3E+02	6E+02	Interim Final PDWS (EPA, 1977)
Famphur	µg/L	50	100	EPA Method 8270
Fluoranthene	µg/L	50	100	EPA Method 8270
Fluorene	µg/L	50	100	EPA Method 8270
Fluoride	µg/L	2,000	4,000	Final PDWS (EPA, 1993a)
Glyphosate ^b	µg/L	350	700	Final PDWS (EPA, 1993a)
Gross alpha	pCi/L	7.5E+00	1.5E+01	Final PDWS (EPA, 1993a)
Heptachlor	µg/L	0.2	0.4	Final PDWS (EPA, 1993a)
Heptachlor epoxide	µg/L	0.1	0.2	Final PDWS (EPA, 1993a)
Heptachlorodibenzo-p-dioxin isomers	µg/L	0.00325	0.0065	EPA Method 8280
1,2,3,4,6,7,8-HPCDD	µg/L	0.00325	0.0065	EPA Method 8280
Heptachlorodibenzo-p-furan isomers	µg/L	0.00225	0.0045	EPA Method 8280
1,2,3,4,6,7,8-HPCDF	µg/L	0.00225	0.0045	EPA Method 8280
Hexachlorobenzene	µg/L	0.5	1	Final PDWS (EPA, 1993a)
Hexachlorobutadiene	µg/L	50	100	EPA Method 8270
Hexachlorocyclopentadiene	µg/L	25	50	Final PDWS (EPA, 1993a)
Hexachlorodibenzo-p-dioxin isomers	µg/L	0.00225	0.0045	EPA Method 8280
1,2,3,4,7,8-HXCDD	µg/L	0.00225	0.0045	EPA Method 8280
Hexachlorodibenzo-p-furan isomers	µg/L	0.002	0.004	EPA Method 8280
1,2,3,4,7,8-HXCDF	µg/L	0.002	0.004	EPA Method 8280
Hexachloroethane	µg/L	50	100	EPA Method 8270
Hexachlorophene	µg/L	250	500	EPA Method 8270
Hexachloropropene	µg/L	50	100	EPA Method 8270
2-Hexanone	µg/L	50	100	EPA Method 8240
Indeno[1,2,3-c,d]pyrene	µg/L	50	100	EPA Method 8270
Iodine	µg/L	250	500	APHA Method 415A
Iodine-129	pCi/L	5E-01	1E+00	Interim Final PDWS (EPA, 1977)
Iodine-131 ^c	pCi/L	1.5E+00	3E+00	Interim Final PDWS (EPA, 1977)
Iodomethane (Methyl iodide)	µg/L	75	150	EPA Method 8240
Iron	µg/L	150	300	SDWS (EPA, 1993b)
Iron, dissolved	µg/L	150	300	SDWS (EPA, 1993b)
Iron, total recoverable	µg/L	150	300	SDWS (EPA, 1993b)
Iron-55 ^c	pCi/L	1E+03	2E+03	Interim Final PDWS (EPA, 1977)
Iron-59 ^c	pCi/L	1E+02	2E+02	Interim Final PDWS (EPA, 1977)
Isobutyl alcohol	µg/L	500	1,000	EPA Method 8240
Isodrin	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source
Isophorone	µg/L	50	100	EPA Method 8270
Isosafrole	µg/L	50	100	EPA Method 8270
Kepone	µg/L	50	100	EPA Method 8270
Lanthanum-140 ^c	pCi/L	3E+01	6E+01	Interim Final PDWS (EPA, 1977)
Lead	µg/L	25	50	Final PDWS (SCDHEC, 1981)
Lead, dissolved	µg/L	25	50	Final PDWS (SCDHEC, 1981)
Lead, total recoverable	µg/L	25	50	Final PDWS (SCDHEC, 1981)
Lead-212	pCi/L	6.2E+01	1.23E+02	Proposed PDWS (EPA, 1991)
Lindane	µg/L	0.1	0.2	Final PDWS (EPA, 1993a)
Lithium	µg/L	25	50	EPA Method 6010
Lithium, dissolved	µg/L	25	50	EPA Method 6010
Lithium, total recoverable	µg/L	25	50	EPA Method 6010
Magnesium		No flag	No flag	Set by EPD/EMS
Magnesium, dissolved		No flag	No flag	Set by EPD/EMS
Magnesium, total recoverable		No flag	No flag	Set by EPD/EMS
Manganese	µg/L	25	50	SDWS (EPA, 1993b)
Manganese, dissolved	µg/L	25	50	SDWS (EPA, 1993b)
Manganese, total recoverable	µg/L	25	50	SDWS (EPA, 1993b)
Manganese-54	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Mercury	µg/L	1	2	Final PDWS (EPA, 1993a)
Mercury, dissolved	µg/L	1	2	Final PDWS (EPA, 1993a)
Mercury, total recoverable	µg/L	1	2	Final PDWS (EPA, 1993a)
Methacrylonitrile	µg/L	250	500	EPA Method 8240
Methapyrilene	µg/L	50	100	EPA Method 8270
Methoxychlor	µg/L	20	40	Final PDWS (EPA, 1993a)
3-Methylcholanthrene	µg/L	50	100	EPA Method 8270
2-Methyl-4,6-dinitrophenol	µg/L	250	500	EPA Method 8270
Methyl ethyl ketone		No flag	No flag	Set by EPD/EMS
Methyl isobutyl ketone		No flag	No flag	Set by EPD/EMS
Methyl methacrylate	µg/L	50	100	EPA Method 8270
Methyl methanesulfonate	µg/L	50	100	EPA Method 8270
2-Methylnaphthalene	µg/L	50	100	EPA Method 8270
Molybdenum	µg/L	250	500	EPA Method 6010
Molybdenum, dissolved	µg/L	250	500	EPA Method 6010
Molybdenum, total recoverable	µg/L	250	500	EPA Method 6010
Naphthalene	µg/L	50	100	EPA Method 8270
1,4-Naphthoquinone	µg/L	50	100	EPA Method 8270
1-Naphthylamine	µg/L	50	100	EPA Method 8270
2-Naphthylamine	µg/L	50	100	EPA Method 8270
Neptunium-237	pCi/L	3.53E+00	7.06E+00	Proposed PDWS (EPA, 1991)
Nickel	µg/L	50	100	Final PDWS (EPA, 1993a)
Nickel, dissolved	µg/L	50	100	Final PDWS (EPA, 1993a)
Nickel, total recoverable	µg/L	50	100	Final PDWS (EPA, 1993a)
Nickel-59 ^c	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Nickel-63 ^c	pCi/L	2.5E+01	5E+01	Interim Final PDWS (EPA, 1977)
Niobium-95 ^c	pCi/L	1.5E+02	3.E+02	Interim Final PDWS (EPA, 1977)
Nitrate as nitrogen	µg/L	5,000	10,000	Final PDWS (EPA, 1993a)
Nitrate-nitrite as nitrogen	µg/L	5,000	10,000	Final PDWS (EPA, 1993a)
Nitrite as nitrogen	µg/L	500	1,000	Final PDWS (EPA, 1993a)
m-Nitroaniline	µg/L	50	100	EPA Method 8270
o-Nitroaniline	µg/L	50	100	EPA Method 8270
p-Nitroaniline	µg/L	50	100	EPA Method 8270
Nitrobenzene	µg/L	50	100	EPA Method 8270
Nitrogen by Kjeldahl method	µg/L	500	1,000	EPA Method 351.2
2-Nitrophenol	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source
4-Nitrophenol	µg/L	50	100	EPA Method 8270
4-Nitroquinoline-1-oxide	µg/L	50	100	EPA Method 8270
N-Nitrosodi-n-butylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodiethylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodimethylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodiphenylamine	µg/L	50	100	EPA Method 8270
N-Nitrosodipropylamine	µg/L	50	100	EPA Method 8270
N-Nitrosomethylethylamine	µg/L	50	100	EPA Method 8270
N-Nitrosomorpholine	µg/L	50	100	EPA Method 8270
N-Nitrosopiperidine	µg/L	50	100	EPA Method 8270
N-Nitrosopyrrolidine	µg/L	50	100	EPA Method 8270
5-Nitro-o-toluidine	µg/L	50	100	EPA Method 8270
Nonvolatile beta	pCi/L	2.5E+01	5E+01	Interim Final PDWS (EPA, 1977)
Octachlorodibenzo-p-dioxin isomers	µg/L	0.005	0.01	EPA Method 8280
Octachlorodibenzo-p-furan isomers	µg/L	0.005	0.01	EPA Method 8280
Odor		No flag	No flag	Set by EPD/EMS
Oil & Grease	µg/L	5,000	10,000	EPA Method 413.1
Oxamyl ^b	µg/L	100	200	Final PDWS (EPA, 1993a)
Parathion	µg/L	0.25	0.5	EPA Method 8080
Parathion methyl	µg/L	0.25	0.5	EPA Method 8080
PCB 1016	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1221	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1232	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1242	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1248	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1254	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1260	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
PCB 1262	µg/L	0.25	0.5	Final PDWS (EPA, 1993a)
Pentachlorobenzene	µg/L	50	100	EPA Method 8270
Pentachlorodibenzo-p-dioxin isomers	µg/L	0.00275	0.0055	EPA Method 8280
1,2,3,7,8-PCDD	µg/L	0.00275	0.0055	EPA Method 8280
Pentachlorodibenzo-p-furan isomers	µg/L	0.00275	0.0055	EPA Method 8280
1,2,3,7,8-PCDF	µg/L	0.00275	0.0055	EPA Method 8280
Pentachloroethane	µg/L	50	100	EPA Method 8270
Pentachloronitrobenzene	µg/L	50	100	EPA Method 8270
Pentachlorophenol	µg/L	0.5	1	Final PDWS (EPA, 1993a)
pH	pH	8	10	Set by EPD/EMS
pH	pH	4	3	Set by EPD/EMS
Phenacetin	µg/L	50	100	EPA Method 8270
Phenanthrene	µg/L	50	100	EPA Method 8270
Phenol	µg/L	50	100	EPA Method 8270
Phenols	µg/L	25	50	EPA Method 420.1
p-Phenylenediamine	µg/L	50	100	EPA Method 8270
Phorate	µg/L	0.5	1	EPA Method 8080
Picloram ^b	µg/L	250	500	Final PDWS (EPA, 1993a)
2-Picoline	µg/L	50	100	EPA Method 8270
Plutonium-238	pCi/L	3.51E+00	7.02E+00	Proposed PDWS (EPA, 1991)
Plutonium-239	pCi/L	3.11E+01	6.21E+01	Proposed PDWS (EPA, 1991)
Plutonium-239/240 ^e	pCi/L	3.11E+01	6.21E+01	Proposed PDWS (EPA, 1991)
Plutonium-240	pCi/L	3.11E+01	6.22E+01	Proposed PDWS (EPA, 1991)
Plutonium-241 ^c	pCi/L	3.13E+01	6.26E+01	Proposed PDWS (EPA, 1991)

Analyte	Unit	Flag 1	Flag 2	Source
Plutonium-242 ^c	pCi/L	3.27E+01	6.54E+01	Proposed PDWS (EPA, 1991)
Potassium		No flag	No flag	Set by EPD/EMS
Potassium, dissolved		No flag	No flag	Set by EPD/EMS
Potassium, total recoverable		No flag	No flag	Set by EPD/EMS
Potassium-40	pCi/L	1.5E+02	3E+02	Proposed PDWS (EPA, 1986)
Promethium-144	pCi/L	5E+01	1E+02	EPA Method 901.1
Promethium-146	pCi/L	5E+01	1E+02	EPA Method 901.1
Promethium-147	pCi/L	2.62E+03	5.24E+03	Proposed PDWS (EPA, 1991)
Pronamid	µg/L	50	100	EPA Method 8270
Propionitrile	µg/L	1,000	2,000	EPA Method 8240
Pyrene	µg/L	50	100	EPA Method 8270
Pyridine	µg/L	50	100	EPA Method 8270
Radium (alpha-emitting) ^f	pCi/L	1E+01	2E+01	Proposed PDWS (EPA, 1991)
Radium-226	pCi/L	1E+01	2E+01	Proposed PDWS (EPA, 1991)
Radium-228	pCi/L	1E+01	2E+01	Proposed PDWS (EPA, 1991)
Radon-222	pCi/L	1.5E+02	3E+02	Proposed PDWS (EPA, 1991)
Ruthenium-103 ^c	pCi/L	1E+02	2E+02	Interim Final PDWS (EPA, 1977)
Ruthenium-106	pCi/L	1.5E+01	3E+01	Interim Final PDWS (EPA, 1977)
Safrole	µg/L	50	100	EPA Method 8270
Selenium	µg/L	25	50	Final PDWS (EPA, 1993a)
Selenium, dissolved	µg/L	25	50	Final PDWS (EPA, 1993a)
Selenium, total recoverable	µg/L	25	50	Final PDWS (EPA, 1993a)
Silica		No flag	No flag	Set by EPD/EMS
Silica, dissolved		No flag	No flag	Set by EPD/EMS
Silica, total recoverable		No flag	No flag	Set by EPD/EMS
Silver	µg/L	50	100	SDWS (EPA, 1993b)
Silver, dissolved	µg/L	50	100	SDWS (EPA, 1993b)
Silver, total recoverable	µg/L	50	100	SDWS (EPA, 1993b)
Simazine ^b	µg/L	2	4	Final PDWS (EPA, 1993a)
Sodium		No flag	No flag	Set by EPD/EMS
Sodium, dissolved		No flag	No flag	Set by EPD/EMS
Sodium, total recoverable		No flag	No flag	Set by EPD/EMS
Sodium-22	pCi/L	2.33E+02	4.66E+02	Proposed PDWS (EPA, 1991)
Specific conductance	µS/cm	250	500	Set by EPD/EMS
Strontium-89	pCi/L	1E+01	2E+01	Interim Final PDWS (EPA, 1977)
Strontium-89/90 ^e	pCi/L	4E+00	8E+00	Final PDWS (EPA, 1993a)
Strontium-90	pCi/L	4E+00	8E+00	Final PDWS (EPA, 1993a)
Styrene	µg/L	50	100	Final PDWS (EPA, 1993a)
Sulfate	µg/L	200,000	400,000	Proposed PDWS (EPA, 1990)
Sulfide	µg/L	5,000	10,000	EPA Method 9030
Sulfotep	µg/L	50	100	EPA Method 8270
Surfactants		No flag	No flag	Set by EPD/EMS
2,3,7,8-TCDD	µg/L	0.000015	0.00003	Final PDWS (EPA, 1993a)
2,3,7,8-TCDF	µg/L	0.002	0.004	EPA Method 8280
Technetium-99	pCi/L	4.5E+02	9E+02	Interim Final PDWS (EPA, 1977)
1,2,4,5-Tetrachlorobenzene	µg/L	50	100	EPA Method 8270
Tetrachlorodibenzo-p-dioxin isomers	µg/L	0.00225	0.0045	EPA Method 8280
Tetrachlorodibenzo-p-furan isomers	µg/L	0.002	0.004	EPA Method 8280
1,1,1,2-Tetrachloroethane	µg/L	5	10	EPA Method 8240
1,1,2,2-Tetrachloroethane	µg/L	5	10	EPA Method 8240
Tetrachloroethylene	µg/L	2.5	5	Final PDWS (EPA, 1993a)
2,3,4,6-Tetrachlorophenol	µg/L	50	100	EPA Method 8270
Thallium	µg/L	1	2	Final PDWS (EPA, 1993a)

Analyte	Unit	Flag 1	Flag 2	Source
Thallium, dissolved	µg/L	1	2	Final PDWS (EPA, 1993a)
Thallium, total recoverable	µg/L	1	2	Final PDWS (EPA, 1993a)
Thionazin	µg/L	50	100	EPA Method 8270
Thorium-228	pCi/L	6.25E+01	1.25E+02	Proposed PDWS (EPA, 1991)
Thorium-230	pCi/L	3.96E+01	7.92E+01	Proposed PDWS (EPA, 1991)
Thorium-232	pCi/L	4.4E+01	8.8E+01	Proposed PDWS (EPA, 1991)
Thorium-234	pCi/L	2E+02	4.01E+02	Proposed PDWS (EPA, 1991)
Tin	µg/L	10	20	EPA Method 282.2
Tin, dissolved	µg/L	10	20	EPA Method 282.2
Tin, total recoverable	µg/L	10	20	EPA Method 282.2
Tin-113 ^c	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Toluene	µg/L	500	1,000	Final PDWS (EPA, 1993a)
o-Toluidine	µg/L	50	100	EPA Method 8270
Total carbon	µg/L	5,000	10,000	EPA Method 9060
Total coliform		0	0	Final PDWS (EPA, 1993a)
Total dissolved solids		No flag	No flag	Set by EPD/EMS
Total hydrocarbons	µg/L	5,000	10,000	EPA Method 418.1
Total inorganic carbon	µg/L	5,000	10,000	EPA Method 9060
Total organic carbon	µg/L	5,000	10,000	EPA Method 9060
Total organic halogens	µg/L	25	50	EPA Method 9020
Total organic nitrogen	µg/L	500	1,000	APHA Method 420
Total petroleum hydrocarbons	µg/L	5,000	10,000	EPA Method 418.1
Total phosphates (as P)		No flag	No flag	Set by EPD/EMS
Total phosphorus		No flag	No flag	Set by EPD/EMS
Toxaphene	µg/L	1.5	3	Final PDWS (EPA, 1993a)
2,4,5-TP (Silvex)	µg/L	25	50	Final PDWS (EPA, 1993a)
Tributyl phosphate	µg/L	50	100	EPA Method 8270
1,2,4-Trichlorobenzene	µg/L	35	70	Final PDWS (EPA, 1993a)
1,1,1-Trichloroethane	µg/L	100	200	Final PDWS (EPA, 1993a)
1,1,2-Trichloroethane	µg/L	2.5	5	Final PDWS (EPA, 1993a)
Trichloroethylene	µg/L	2.5	5	Final PDWS (EPA, 1993a)
Trichlorofluoromethane	µg/L	5	10	EPA Method 8240
2,4,5-Trichlorophenol	µg/L	50	100	EPA Method 8270
2,4,6-Trichlorophenol	µg/L	50	100	EPA Method 8270
2,4,5-Trichlorophenoxyacetic acid	µg/L	2.5	5	EPA Method 8150
1,2,3-Trichloropropane	µg/L	5	10	EPA Method 8240
O,O,O-Triethyl phosphorothioate	µg/L	50	100	EPA Method 8270
1,3,5-Trinitrobenzene	µg/L	50	100	EPA Method 8270
Tritium	pCi/mL	1E+01	2E+01	Final PDWS (EPA, 1993a)
Turbidity ^g		No flag	No flag	Set by EPD/EMS
Uranium	µg/L	10	20	Proposed PDWS (EPA, 1991)
Uranium, dissolved	µg/L	10	20	Proposed PDWS (EPA, 1991)
Uranium, total recoverable	µg/L	10	20	Proposed PDWS (EPA, 1991)
Uranium alpha activity	pCi/L	1.5E+01	3E+01	Proposed PDWS (EPA, 1991)
Uranium-233/234 ^e	pCi/L	6.9E+00	1.38E+01	Proposed PDWS (EPA, 1991)
Uranium-234	pCi/L	6.95E+00	1.39E+01	Proposed PDWS (EPA, 1991)
Uranium-235	pCi/L	7.25E+00	1.45E+01	Proposed PDWS (EPA, 1991)
Uranium-238	pCi/L	7.3E+00	1.46E+01	Proposed PDWS (EPA, 1991)
Vanadium	µg/L	40	80	EPA Method 6010
Vanadium, dissolved	µg/L	40	80	EPA Method 6010
Vanadium, total recoverable	µg/L	40	80	EPA Method 6010
Vinyl acetate	µg/L	5	10	EPA Method 8240

Analyte	Unit	Flag 1	Flag 2	Source
Xylenes	µg/L	5,000	10,000	Final PDWS (EPA, 1993a)
Yttrium-88	pCi/L	5E+01	1E+02	EPA Method 901.1
Zinc	µg/L	2,500	5,000	SDWS (EPA, 1993b)
Zinc, dissolved	µg/L	2,500	5,000	SDWS (EPA, 1993b)
Zinc, total recoverable	µg/L	2,500	5,000	SDWS (EPA, 1993b)
Zinc-65	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Zirconium-95 ^c	pCi/L	1E+02	2E+02	Interim Final PDWS (EPA, 1977)
Zirconium/Niobium-95 ^c	pCi/L	1E+02	2E+02	Interim Final PDWS (EPA, 1977)

- ^a References for methods are in Appendix E; references for dated sources are at the end of this appendix.
- ^b EMS is currently unable to perform this analysis.
- ^c EMS discontinued monitoring this radionuclide because it is inappropriate for the SRS Groundwater Monitoring Program.
- ^d EPD/EMS set this flagging criterion using the 1991 proposed PDWS because the final PDWS in 1977 may have been in error.
- ^e For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.
- ^f The applied standard is for radium-226.
- ^g The primary maximum contaminant level range for turbidity is 1–5 NTU, which is inappropriate for the SRS Groundwater Monitoring Program.

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Appendix C

Figures

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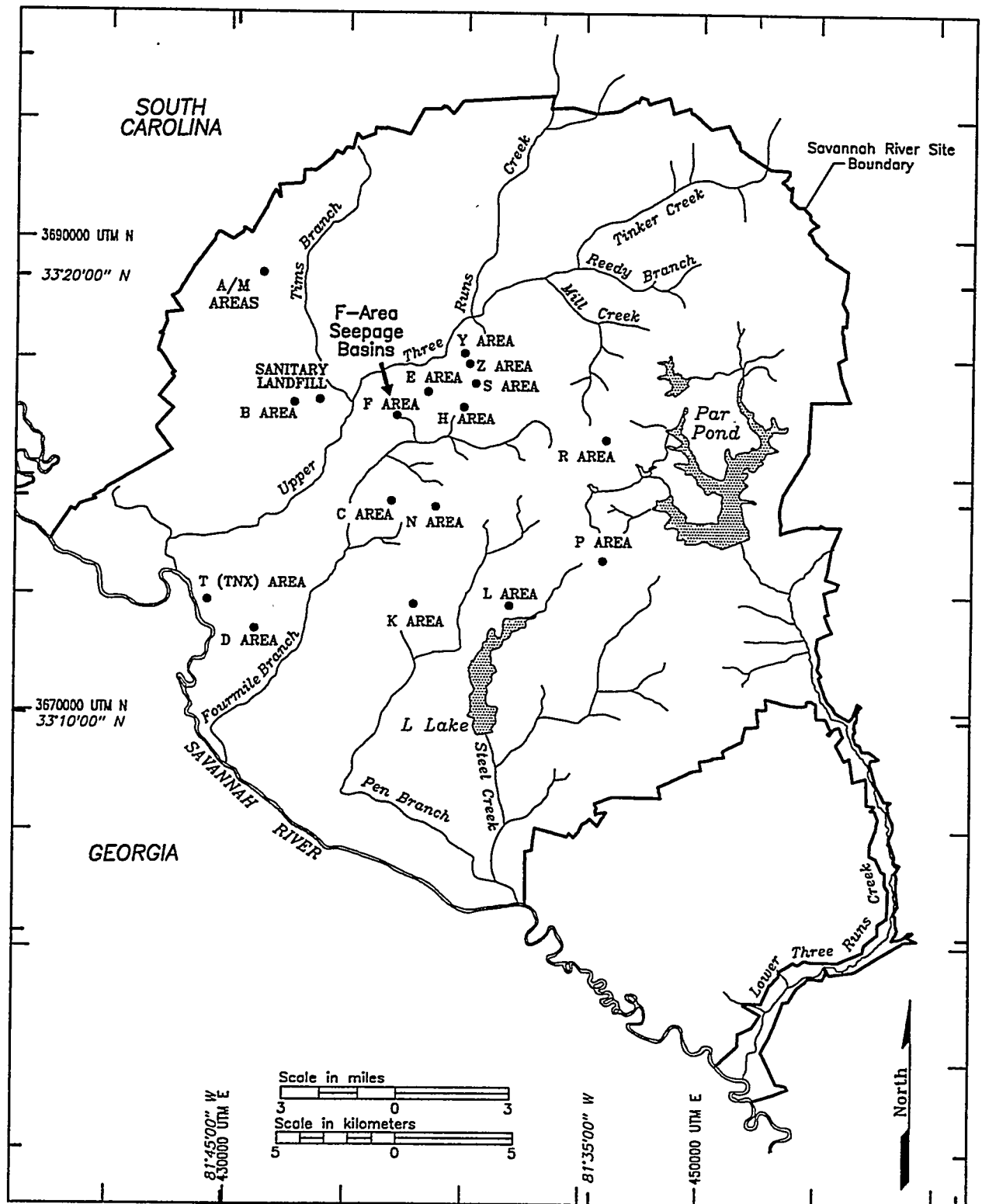


Figure 1. Location of the F-Area Seepage Basins at the Savannah River Site

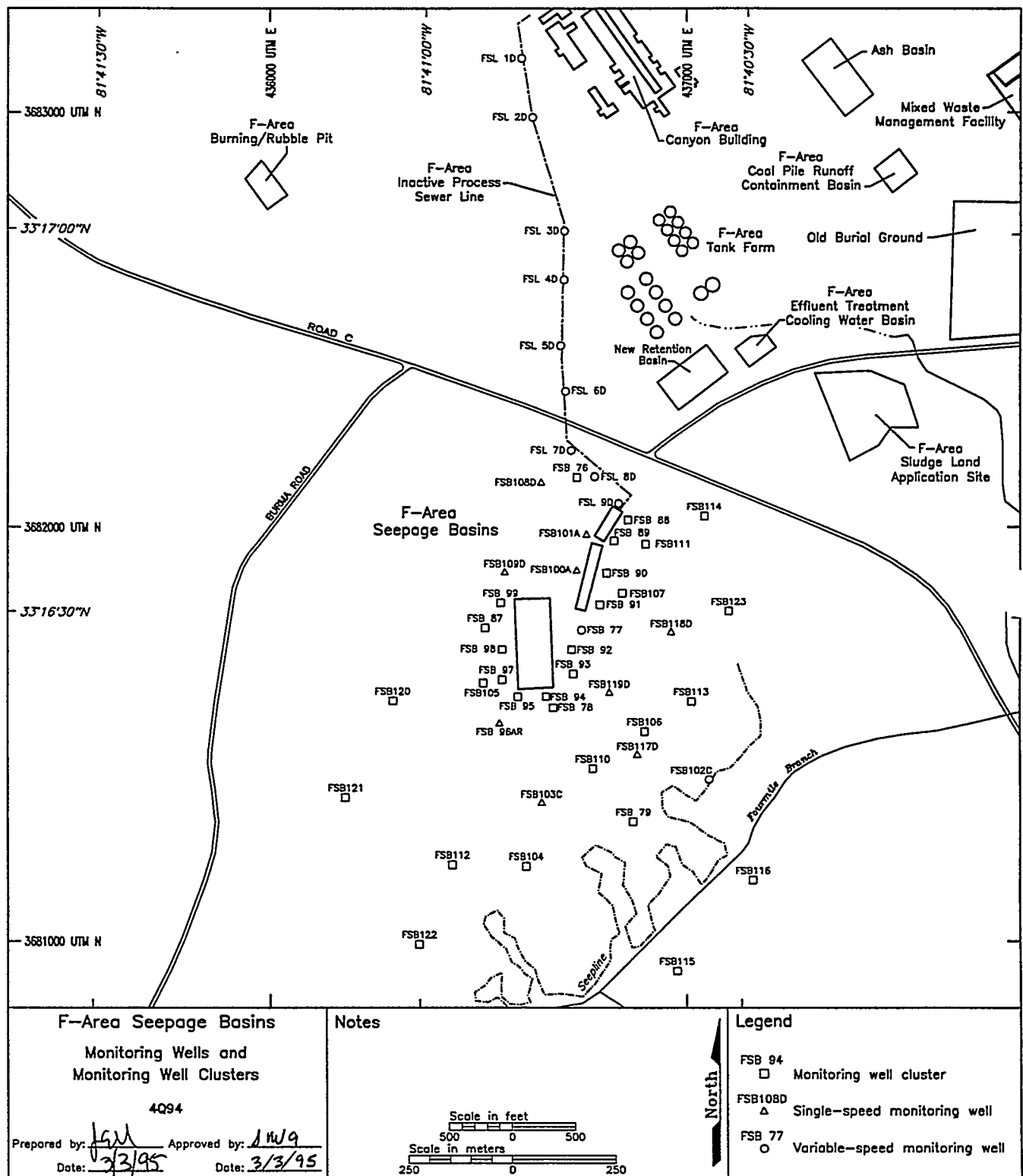


Figure 2. Location of the Groundwater Monitoring Wells at the F-Area Seepage Basins

Geologic Age	Lithostratigraphic Units		Hydrostratigraphic Units				
Tertiary	"Upland Unit"		Regulatory Uppermost Aquifer	Aquifer Unit IIB	Aquifer Zone IIB ₂		Aquifer System II
	Barnwell Group	Tobacco Rd Formation			Confining Zone IIB ₁ - IIB ₂		
		Dry Branch Formation			Aquifer Zone IIB ₁		
		Clinchfield Formation			Confining Unit IIA-IIB		
	Santee Limestone Formation				Aquifer Unit IIA		
	Warley Hill Formation						
	Congaree/ Fishburne Formations						
	Williamsburg Formation			Confining System I-II			
	Ellenton Formation						

Figure 3. Hydrostratigraphic Nomenclature

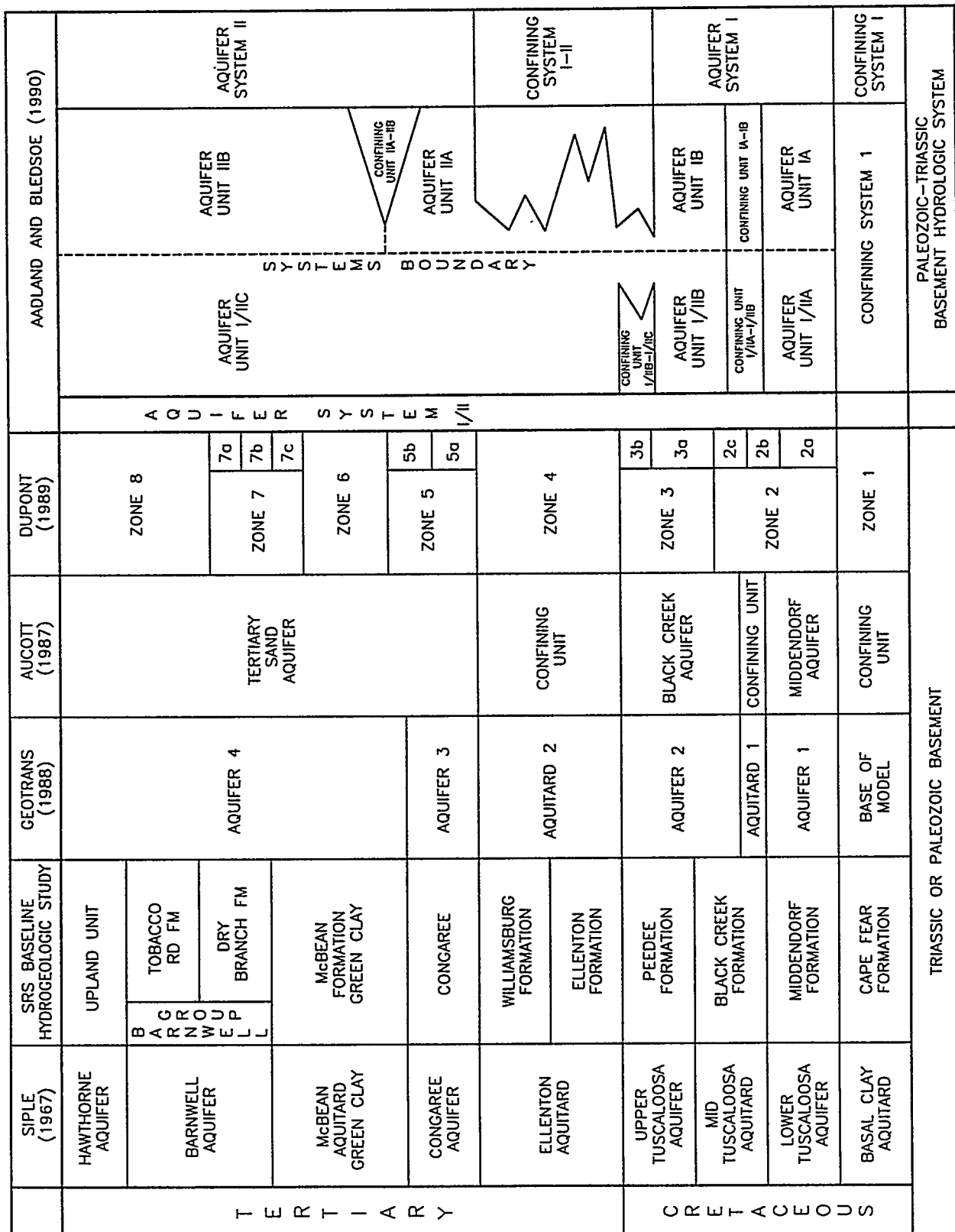


Figure 4. Regional Correlation of Hydrostratigraphic and Lithostratigraphic Nomenclatures

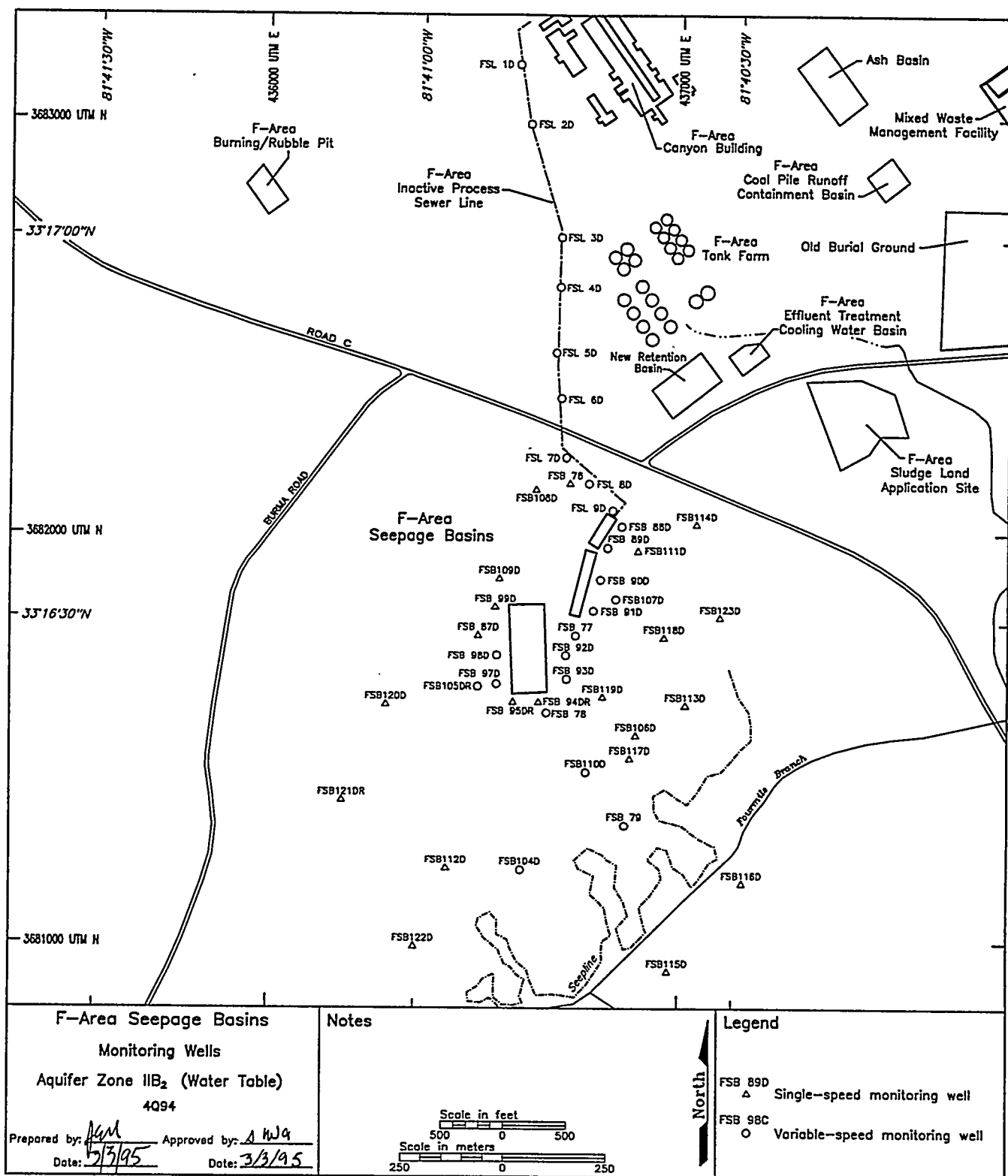


Figure 5. Location of Aquifer Zone IIB₂ (Water Table) Monitoring Wells at the F-Area Seepage Basins

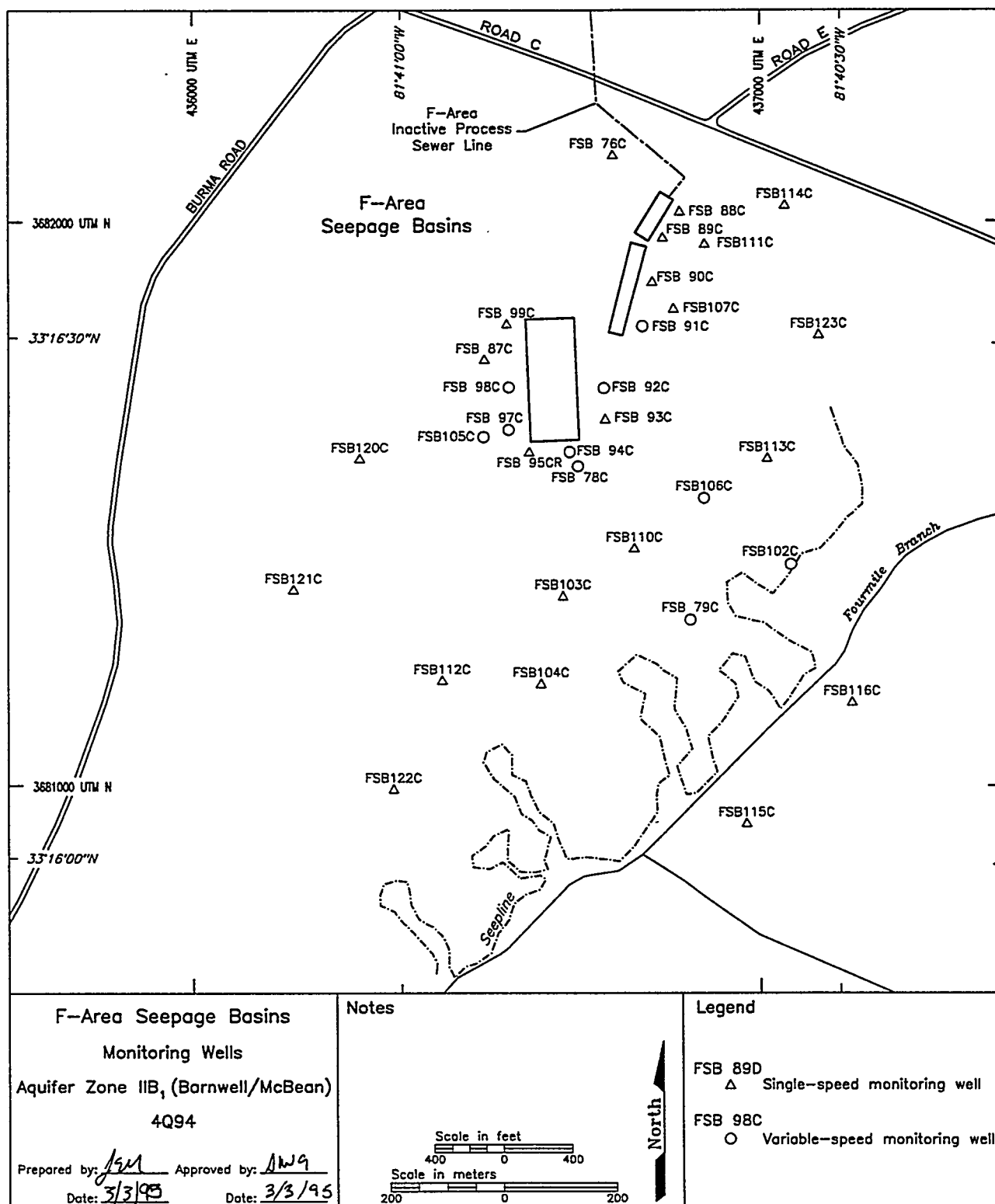


Figure 6. Location of Aquifer Zone IIB₁ (Barnwell/McBean) Monitoring Wells at the F-Area Seepage Basins

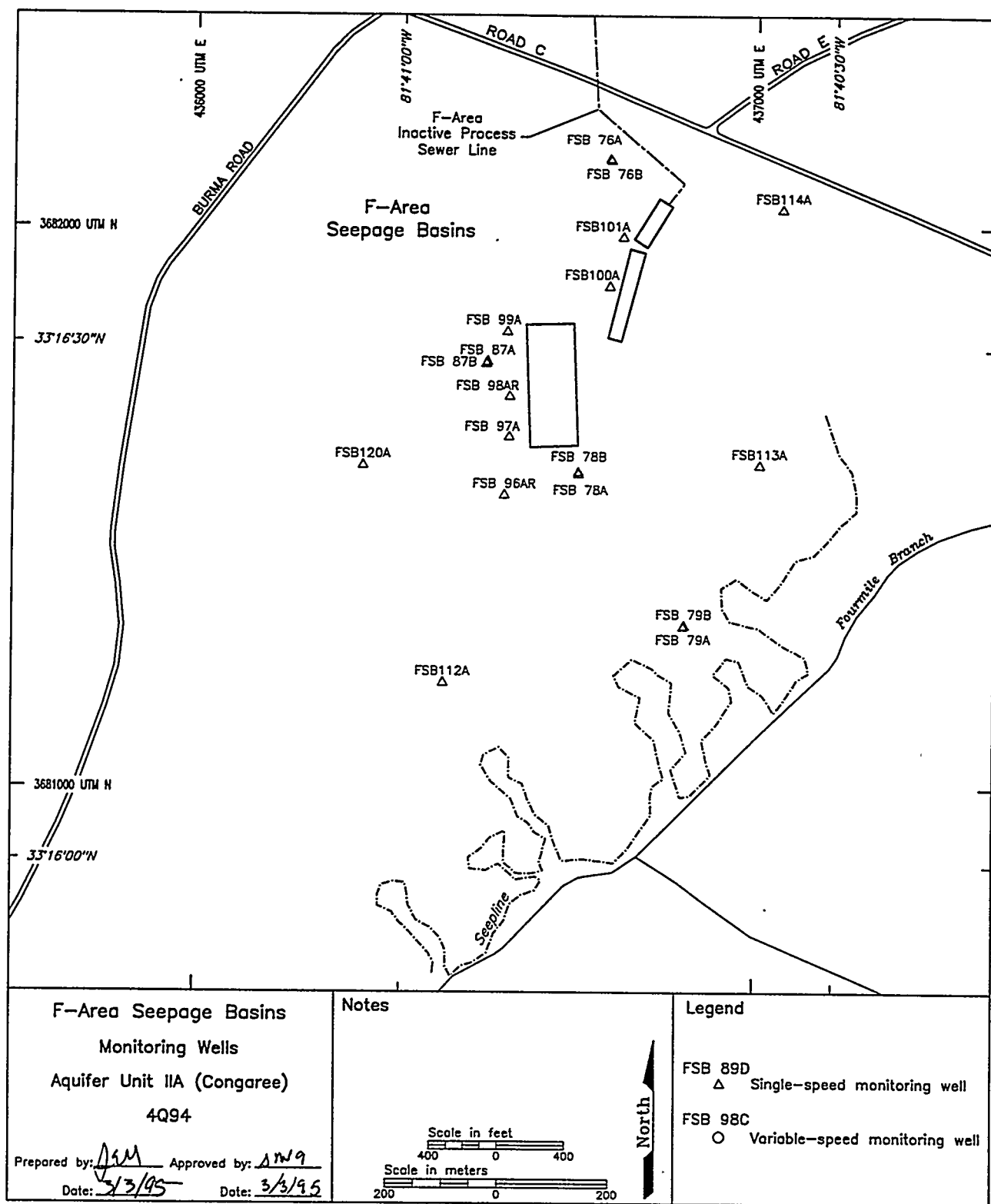


Figure 7. Location of Aquifer Unit IIA (Congaree) Monitoring Wells at the F-Area Seepage Basins

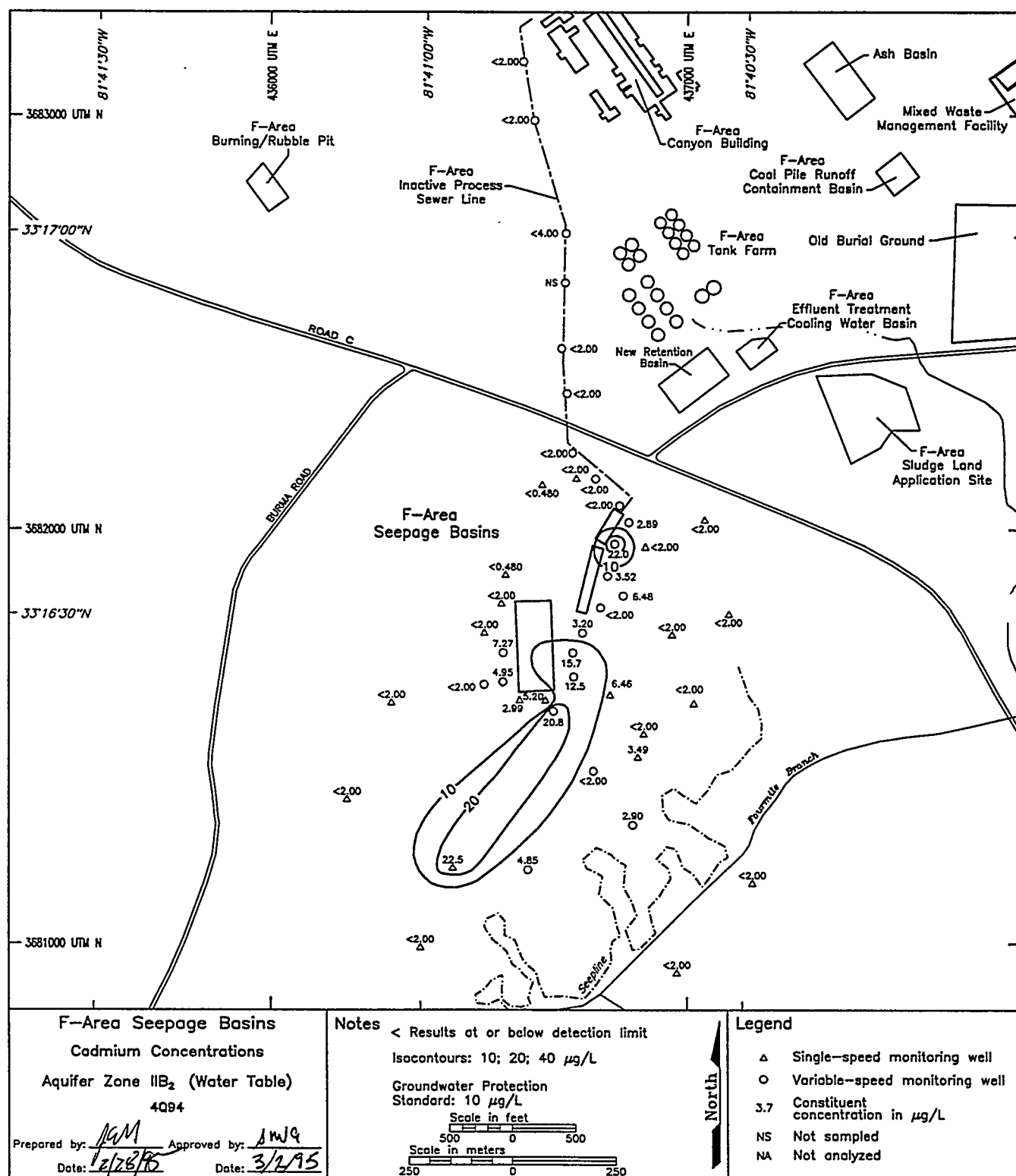


Figure 8. Cadmium Concentrations in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

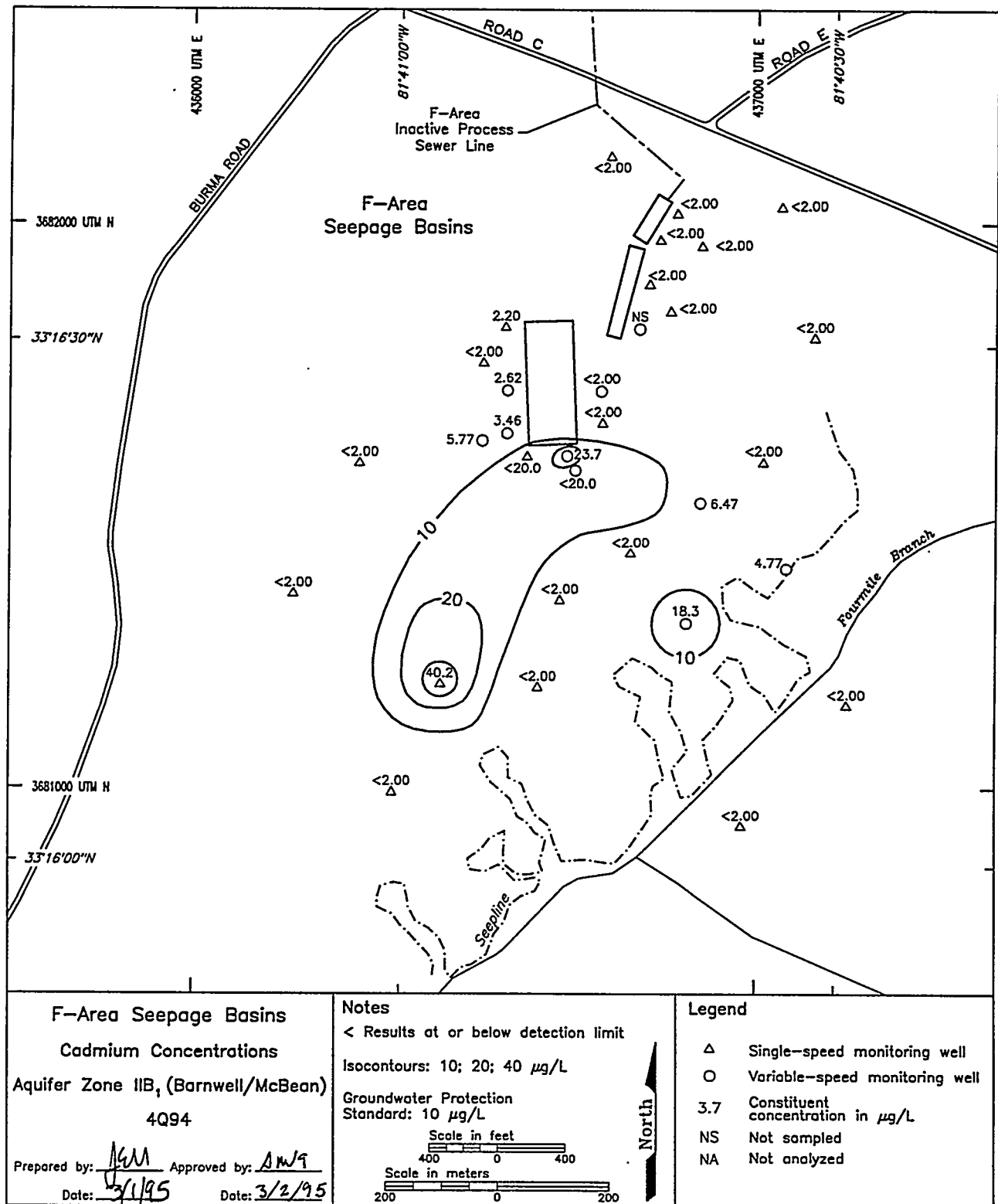


Figure 9. Cadmium Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

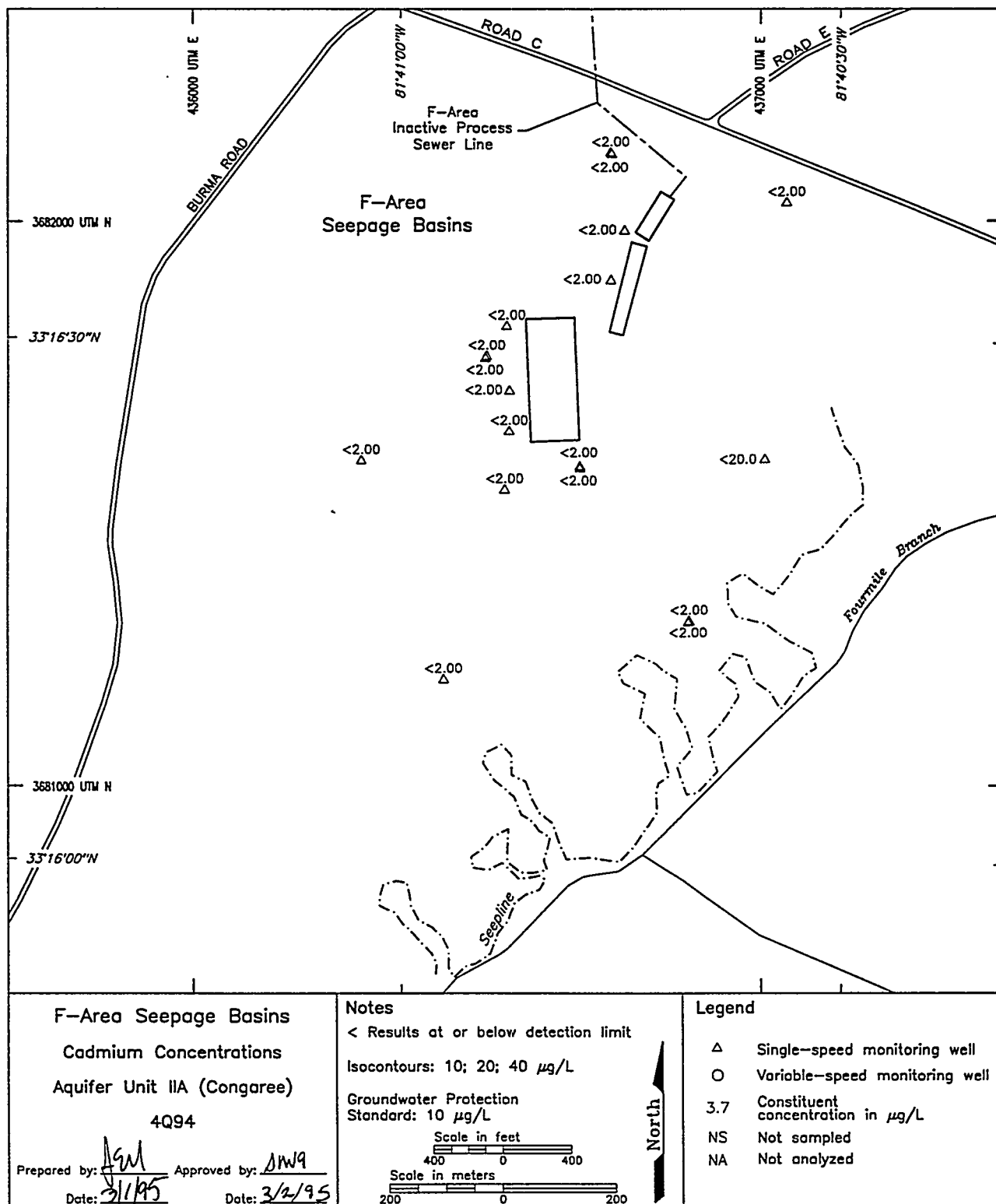


Figure 10. Cadmium Concentrations in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

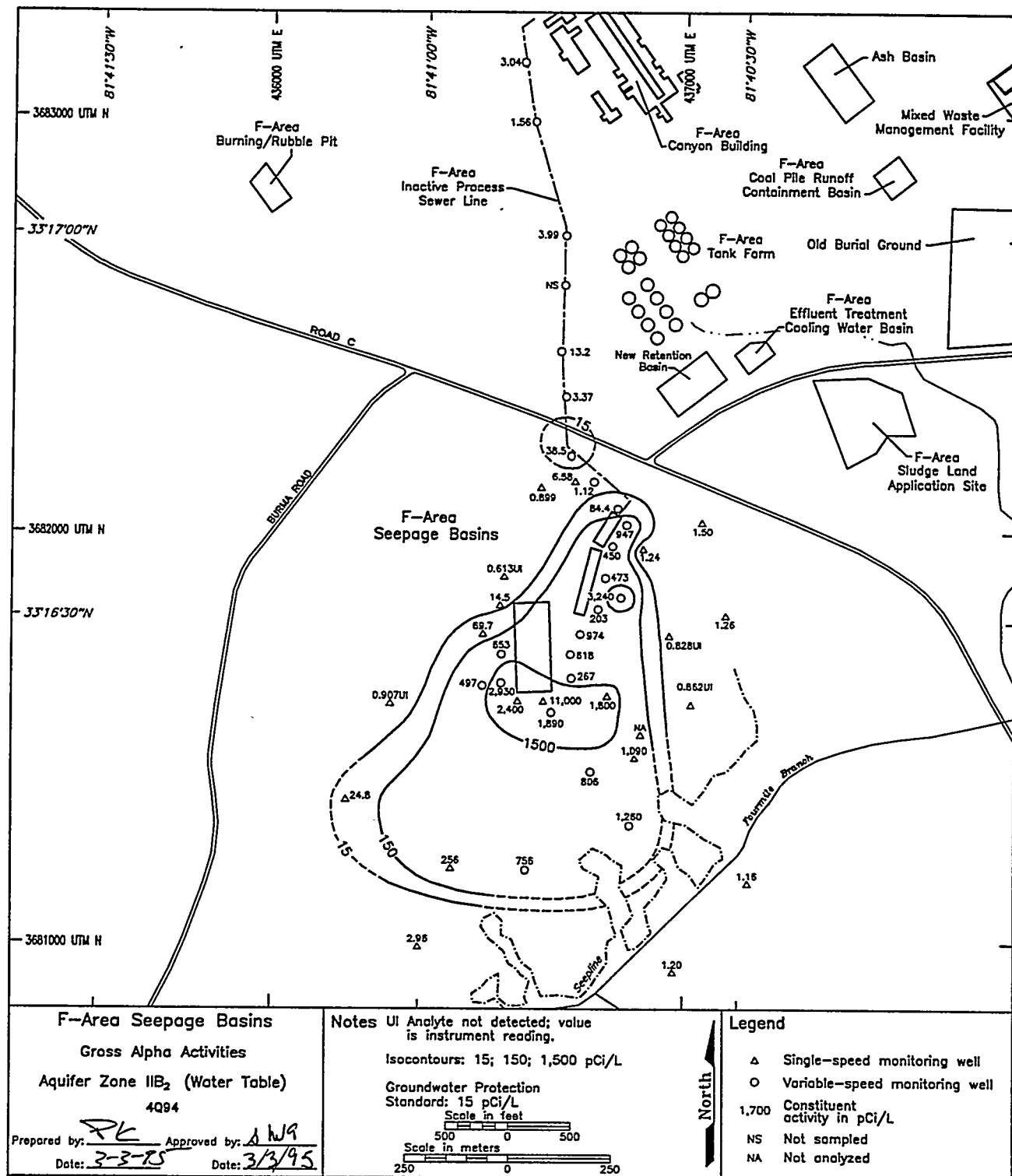


Figure 11. Gross Alpha Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

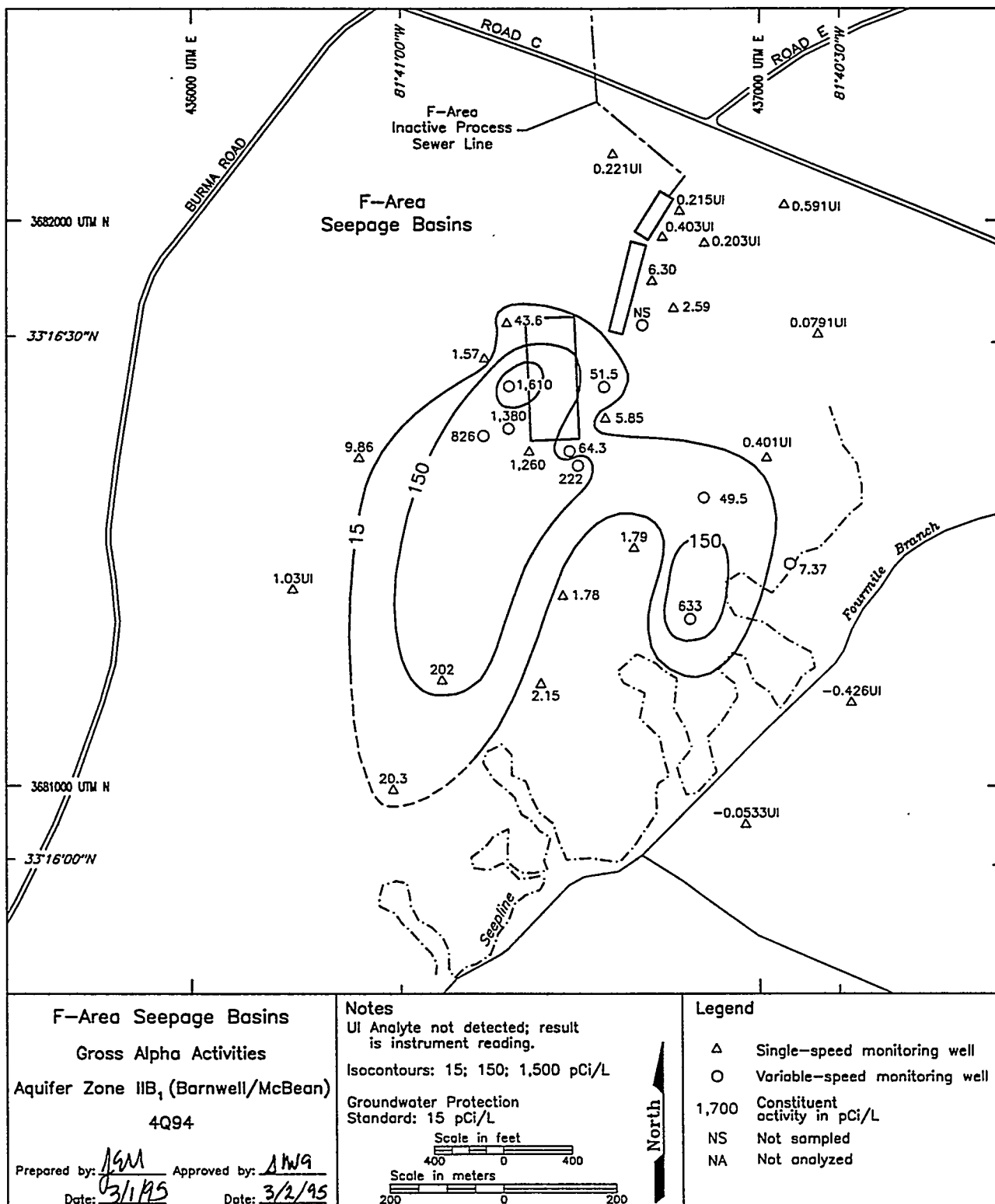


Figure 12. Gross Alpha Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

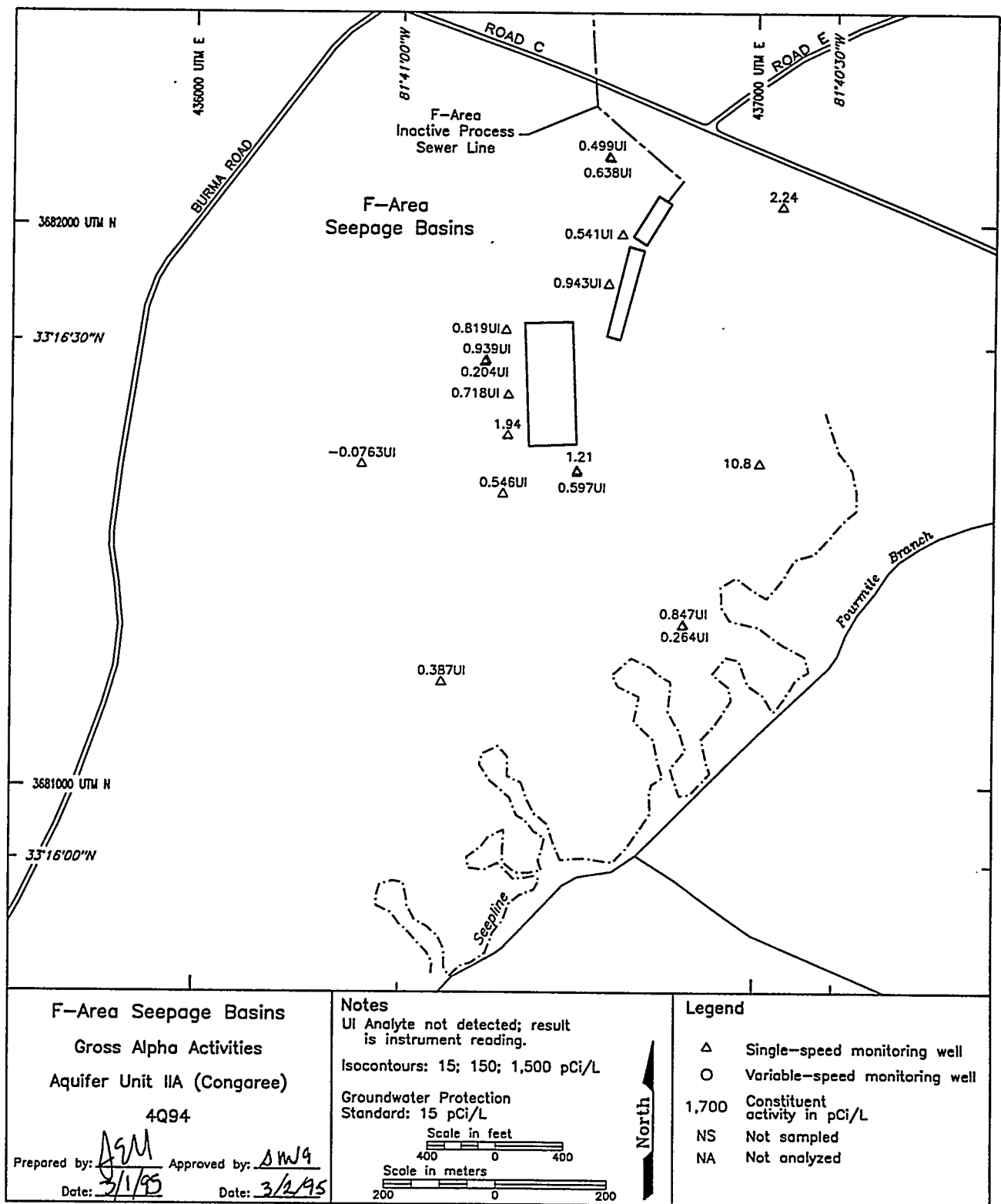


Figure 13. Gross Alpha Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

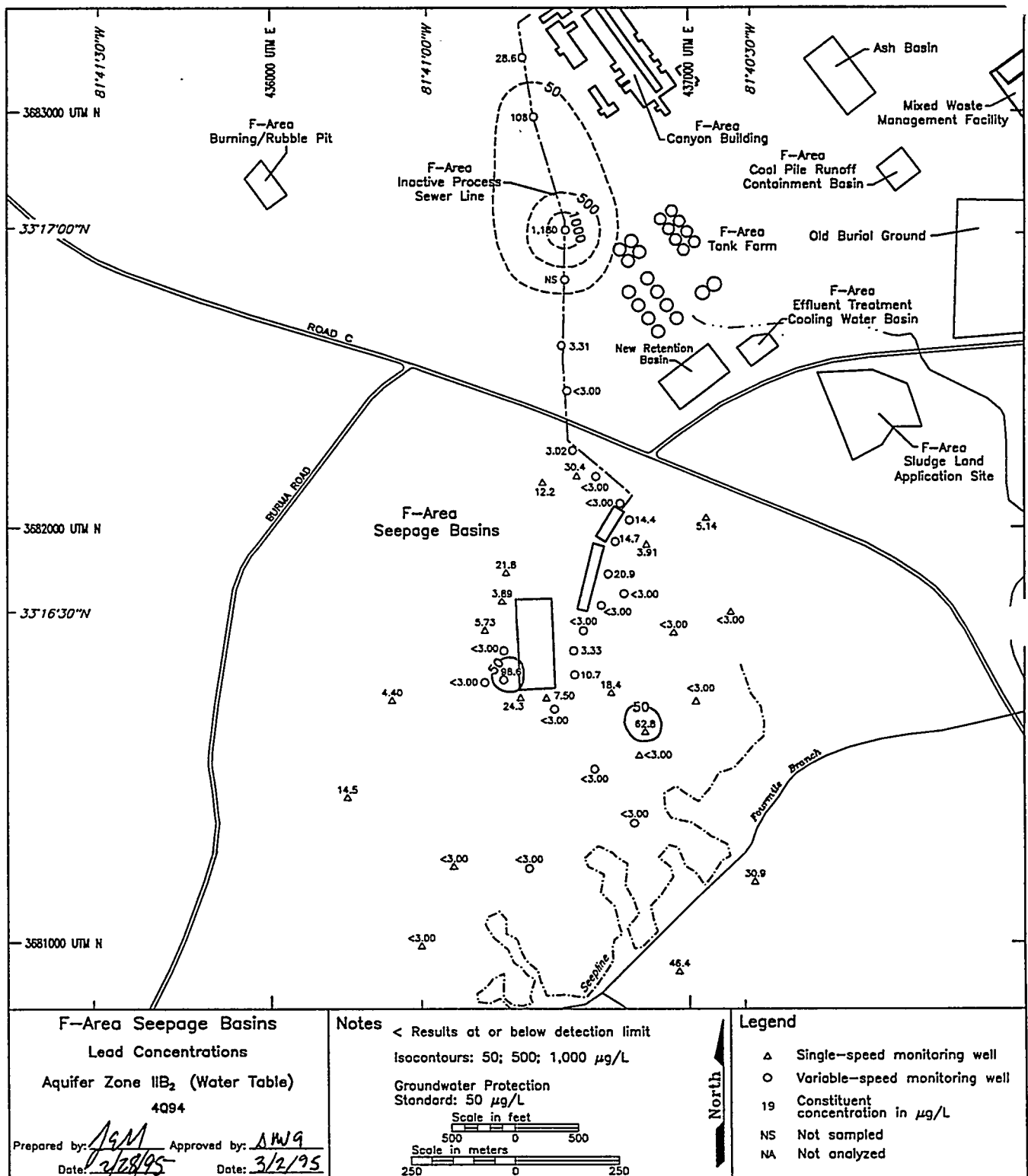


Figure 14. Lead Concentrations in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

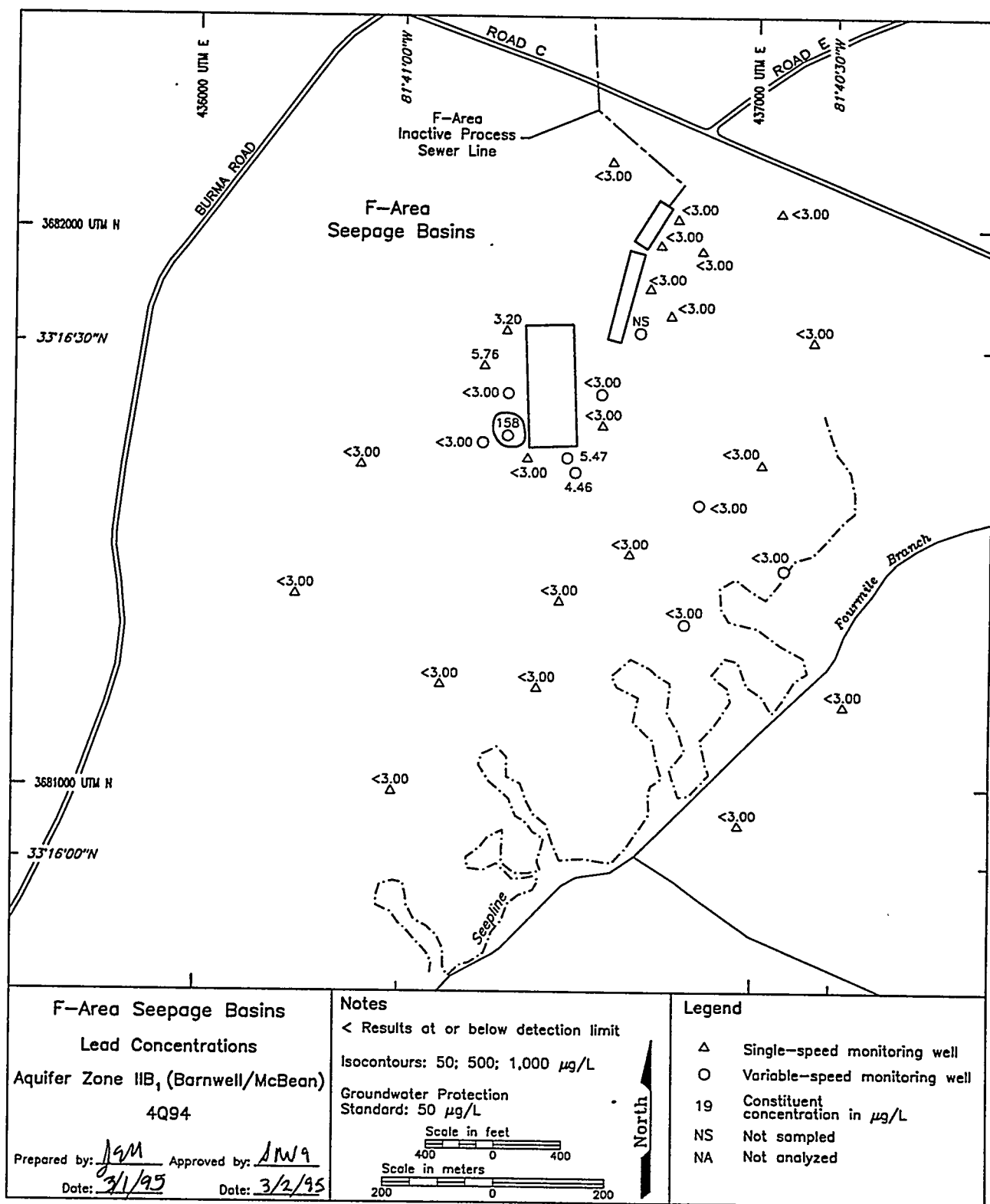


Figure 15. Lead Concentrations in Aquifer Zone IIB, (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

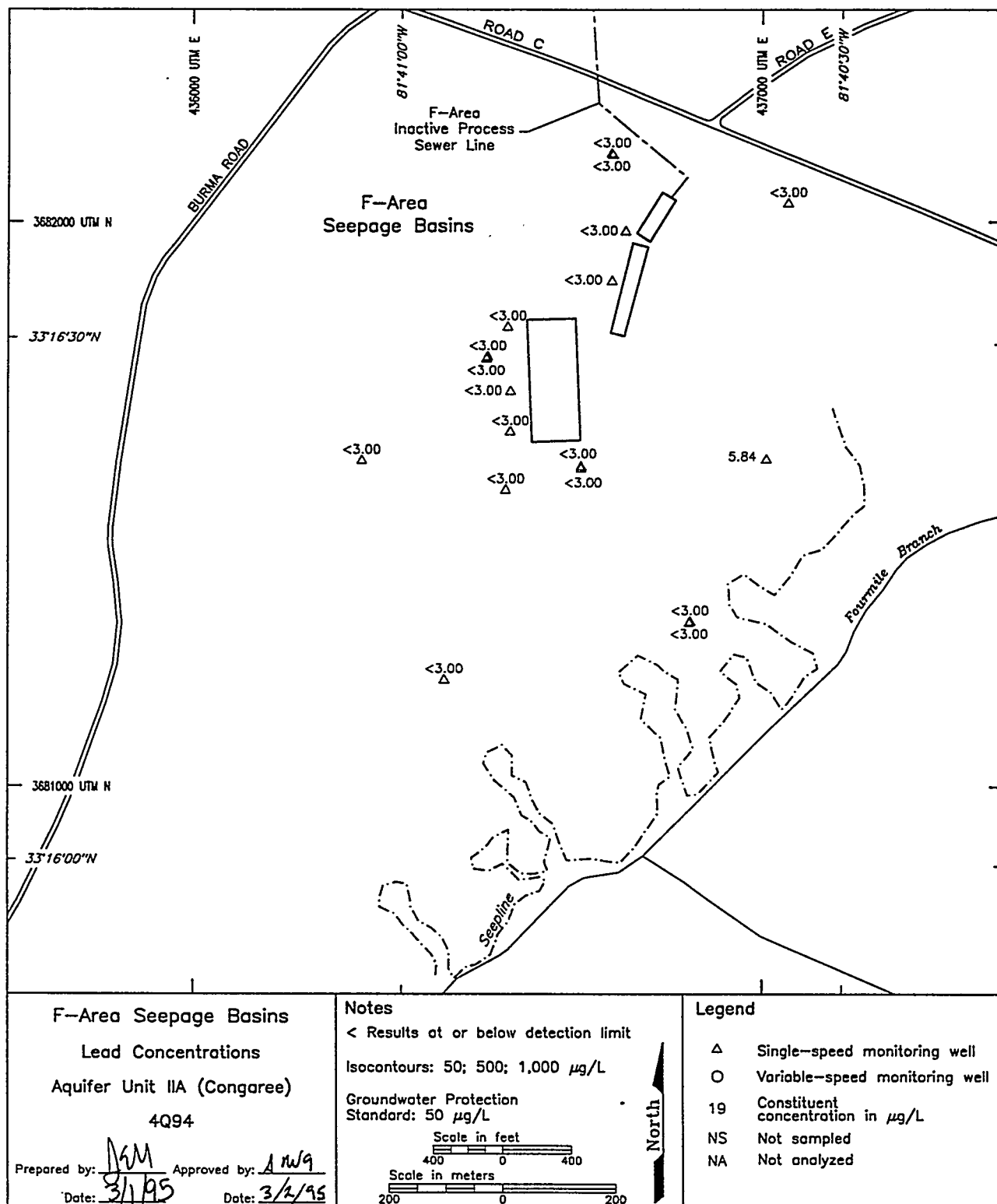


Figure 16. Lead Concentrations in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

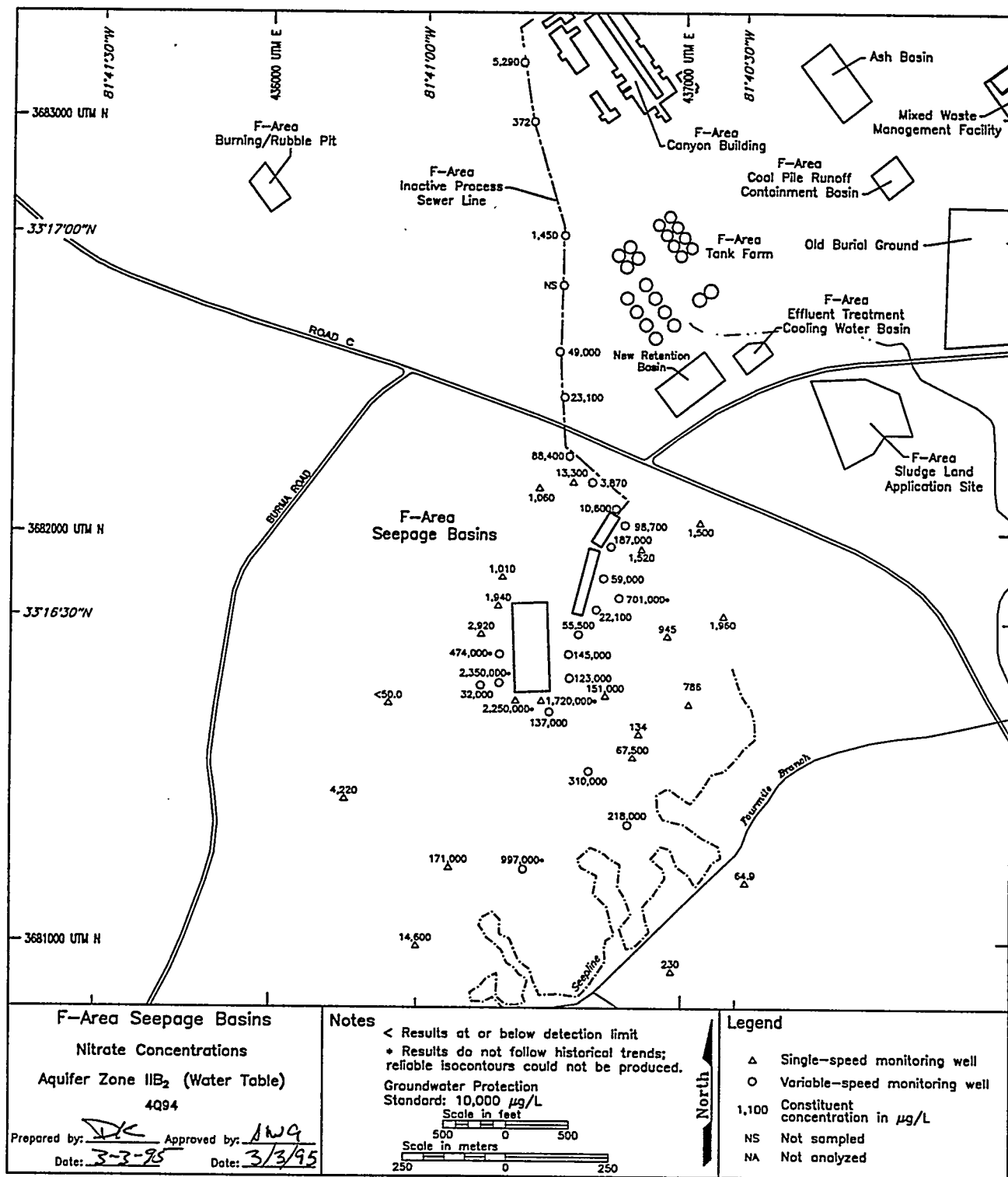


Figure 17. Nitrate Concentrations in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

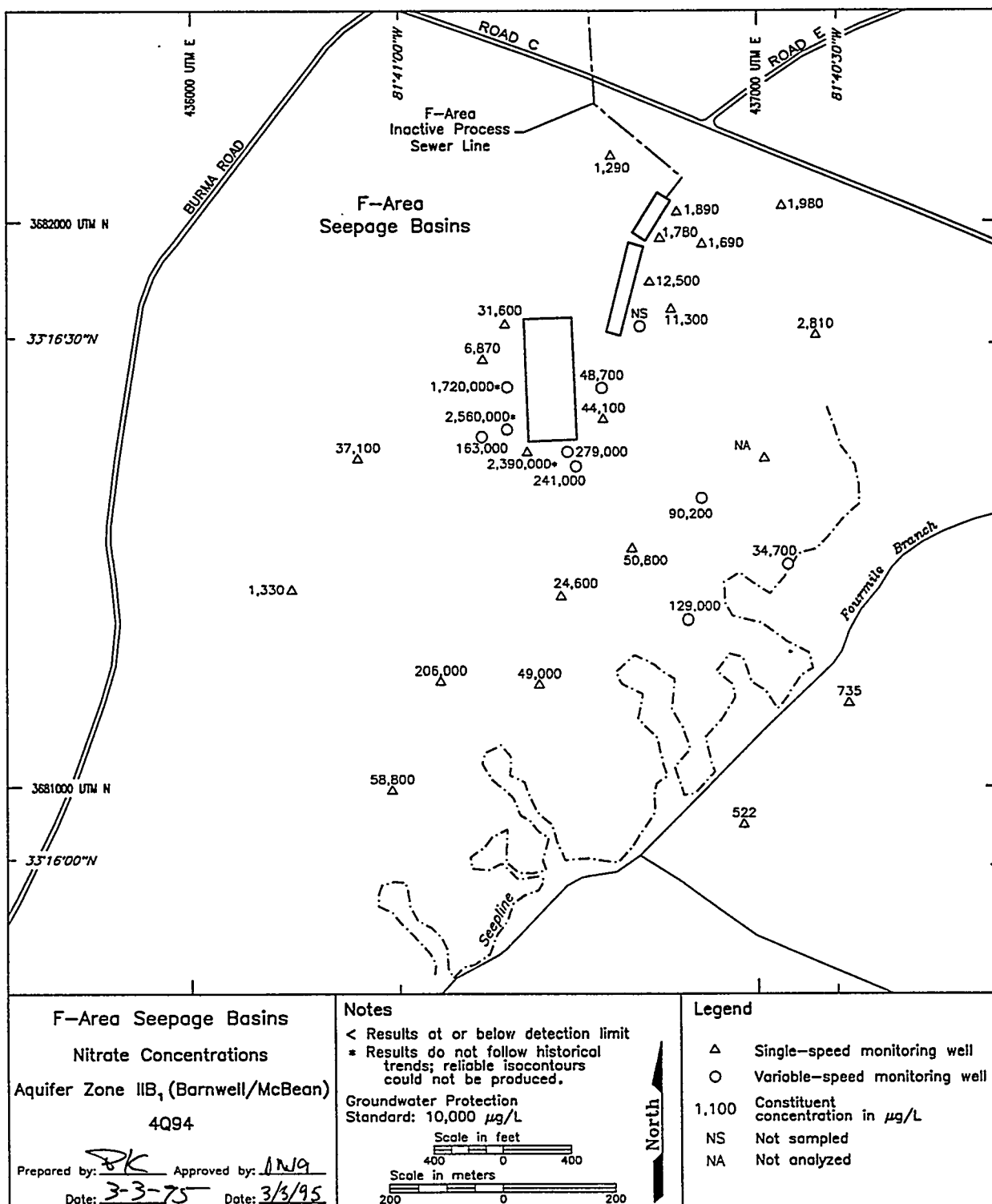


Figure 18. Nitrate Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

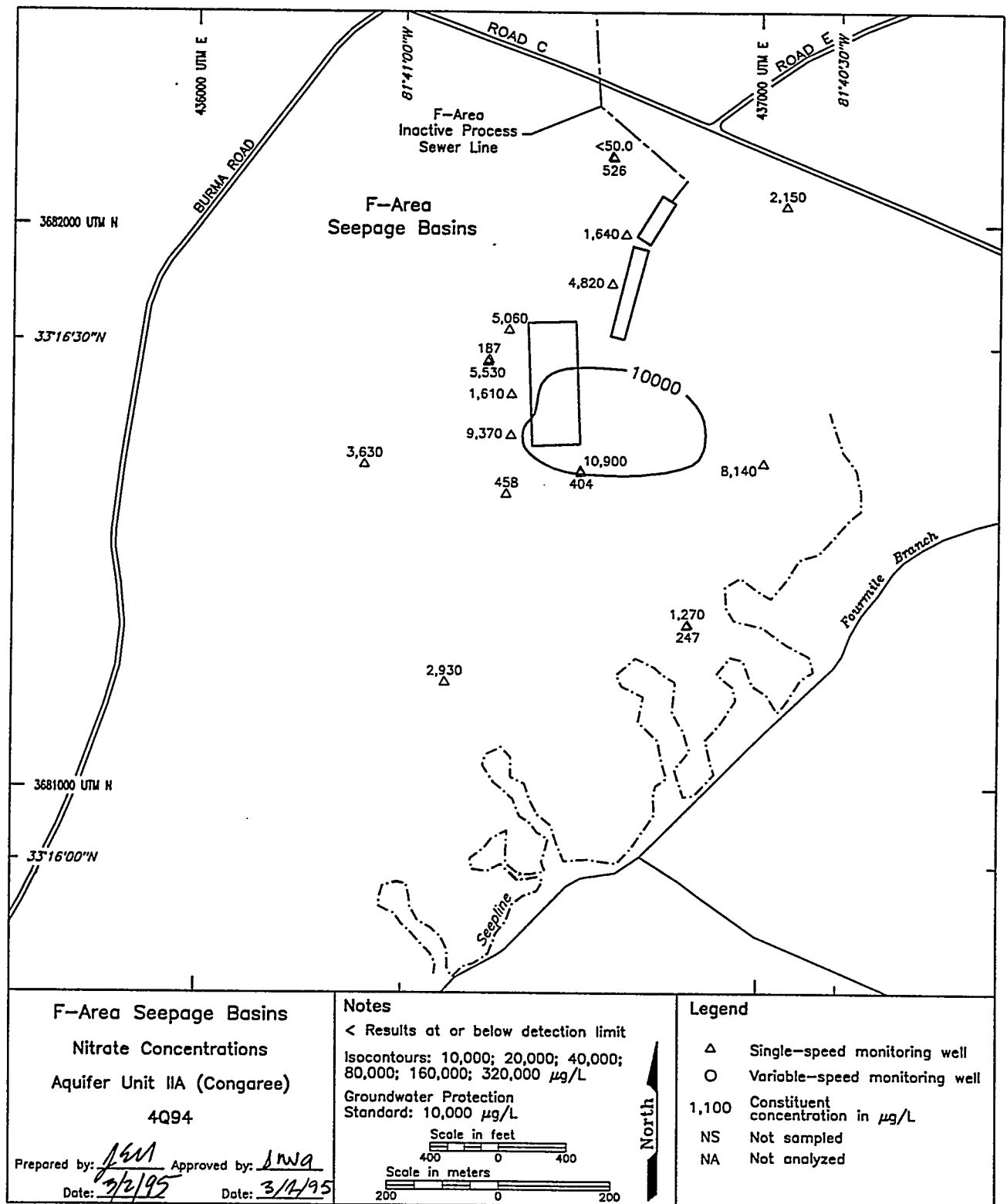
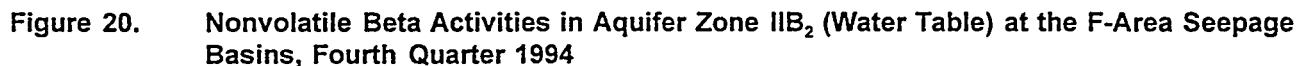


Figure 19. Nitrate Concentrations in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994



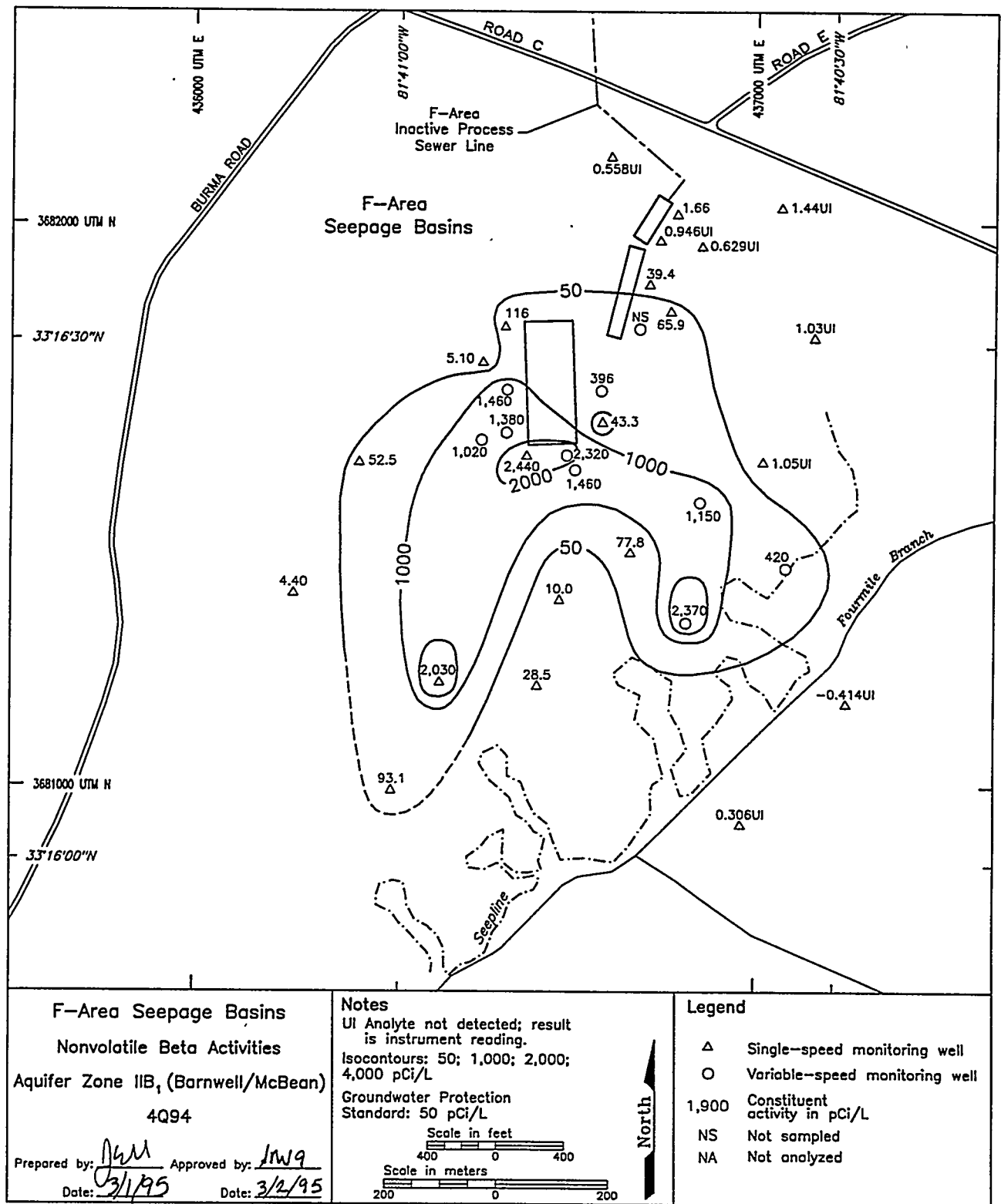


Figure 21. Nonvolatile Beta Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

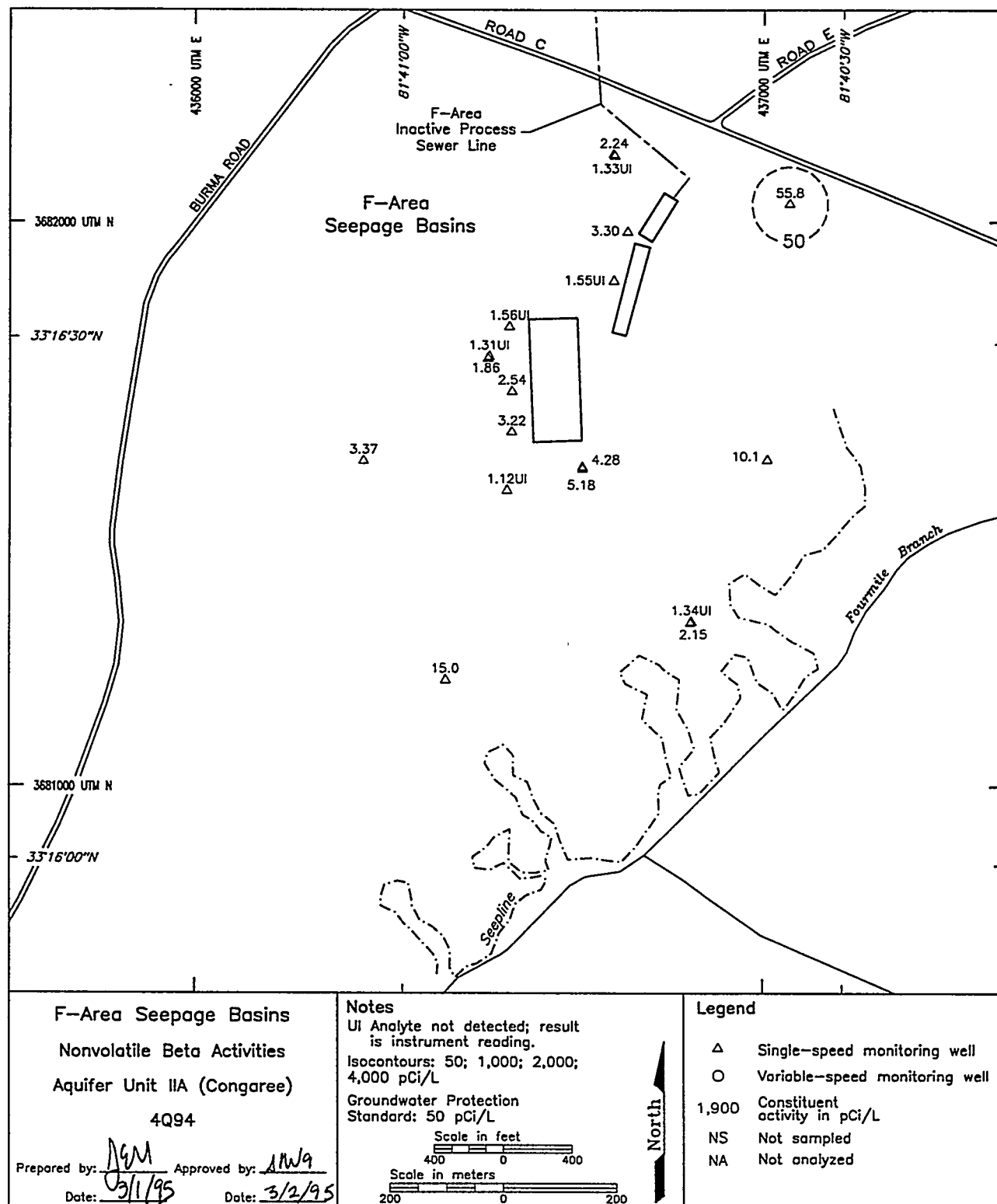


Figure 22. Nonvolatile Beta Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

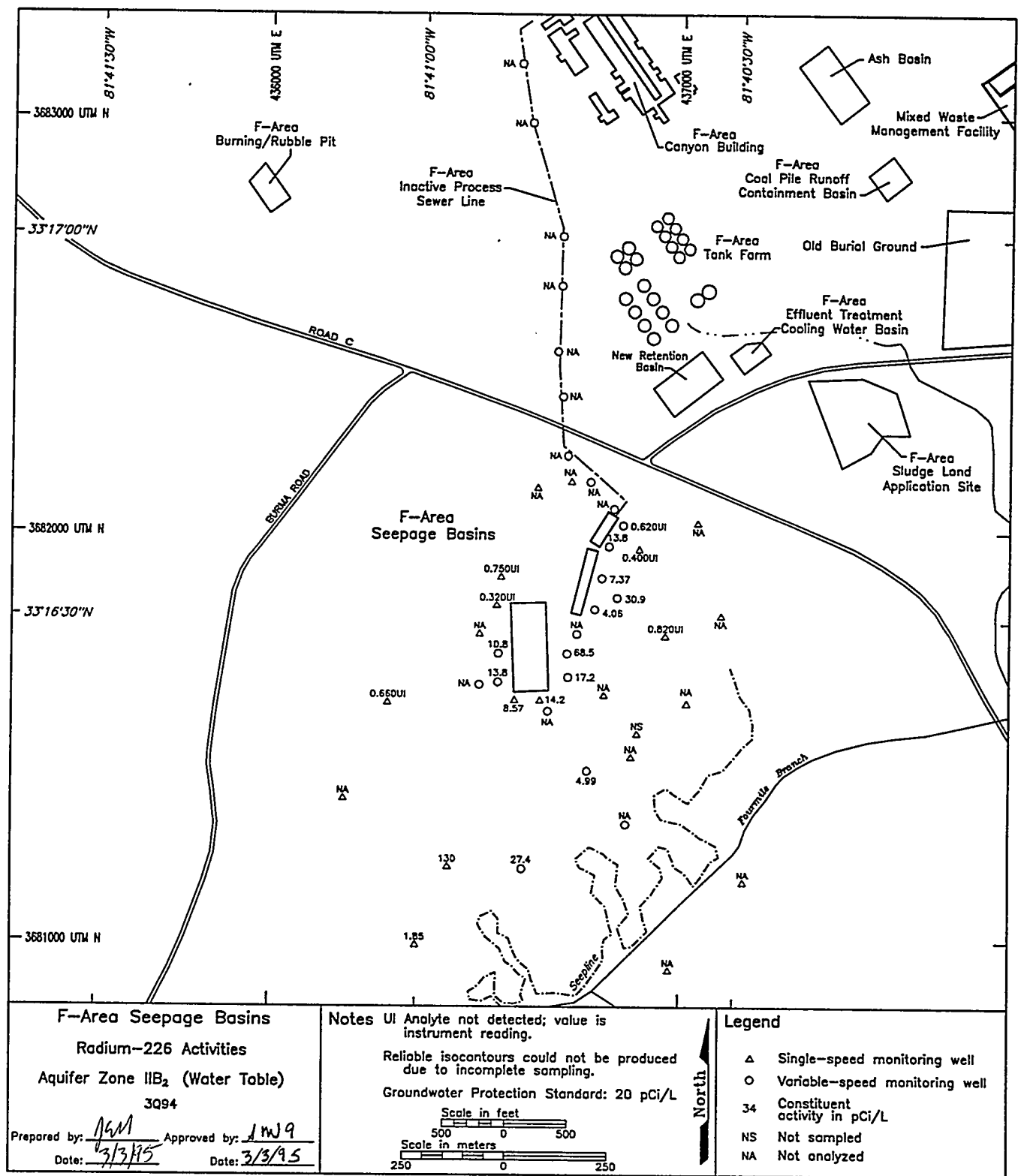


Figure 23. Radium-226 Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Third Quarter 1994

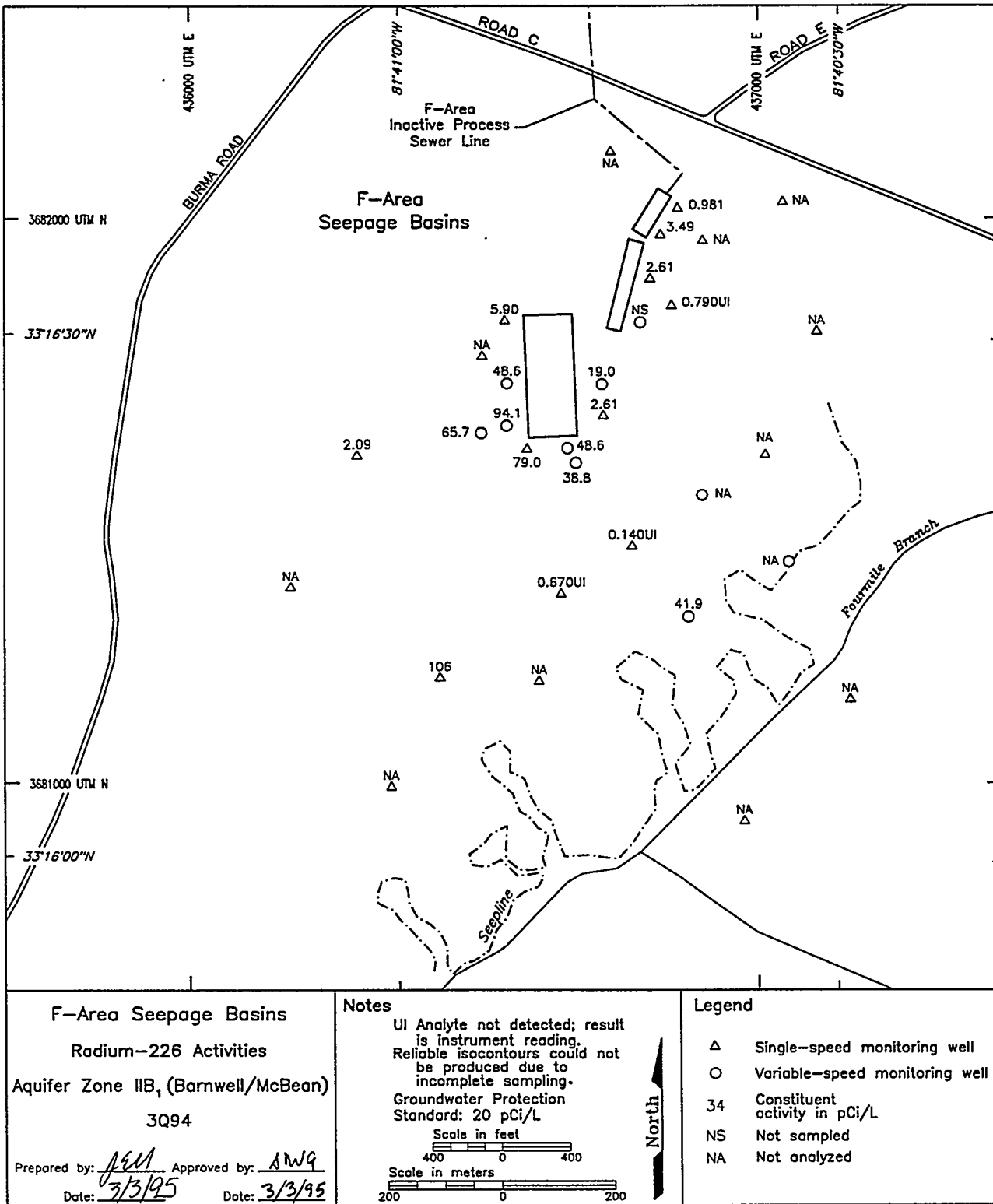


Figure 24. Radium-226 Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Third Quarter 1994

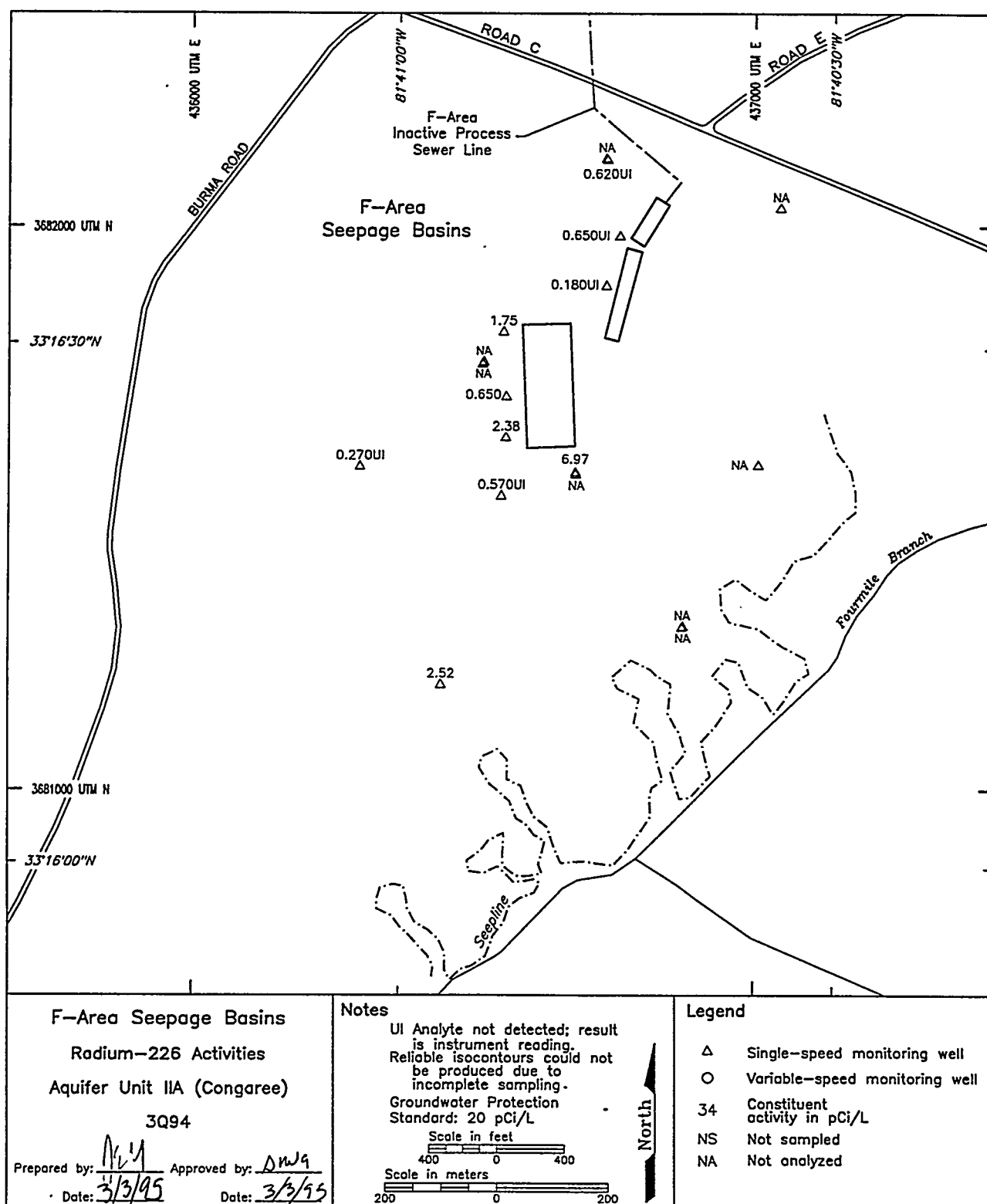


Figure 25. Radium-226 Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Third Quarter 1994

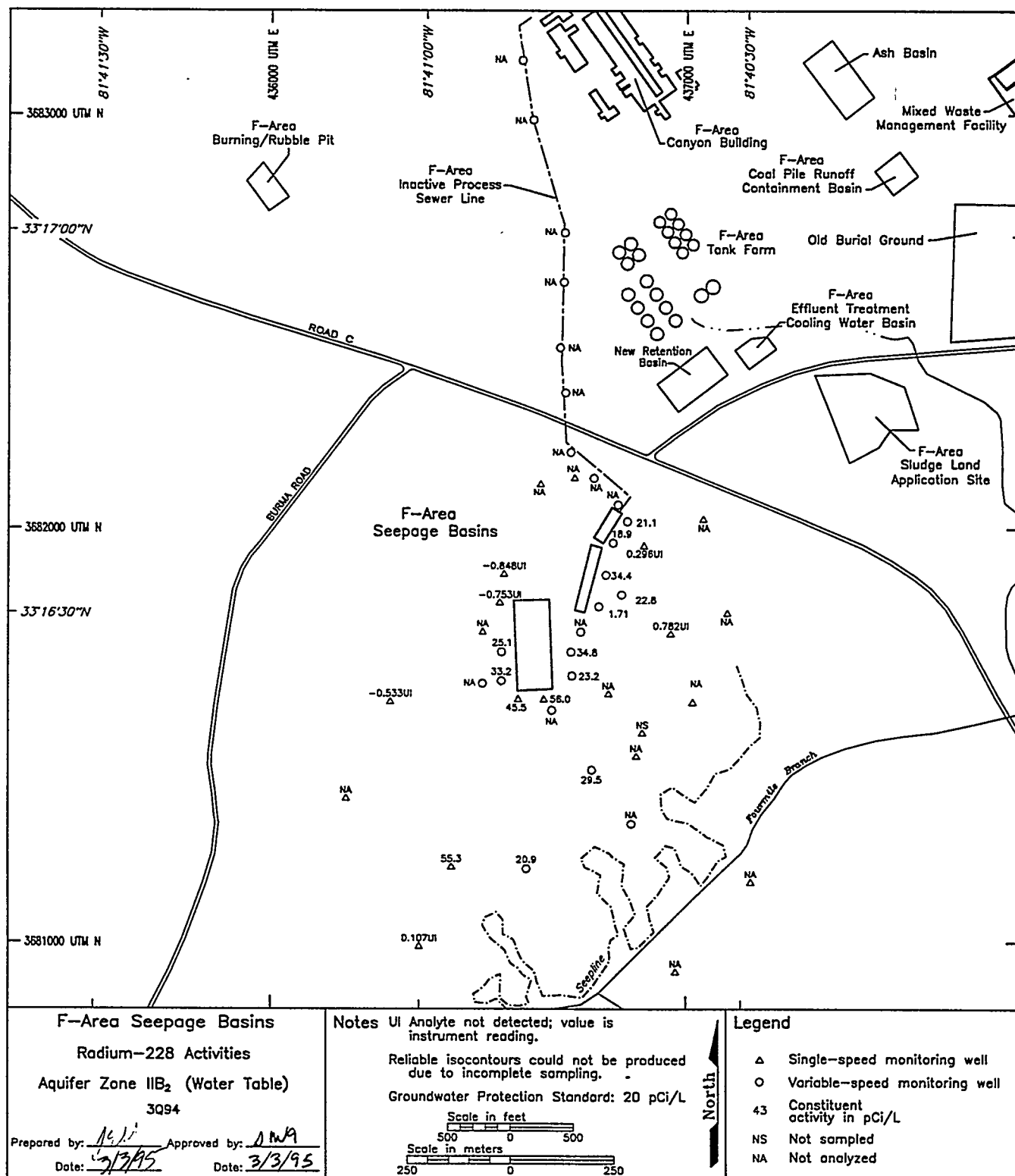


Figure 26. Radium-228 Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Third Quarter 1994

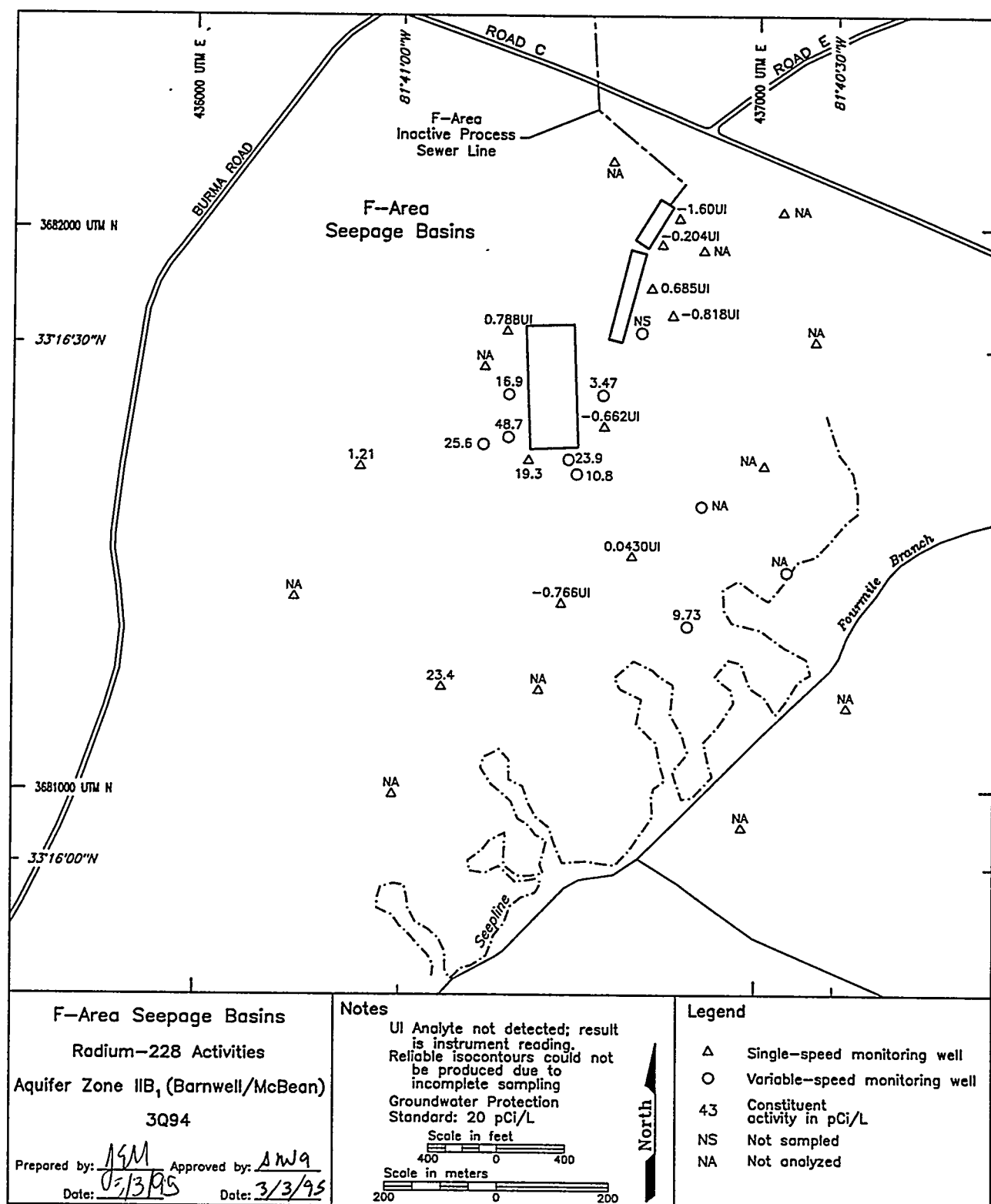


Figure 27. Radium-228 Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Third Quarter 1994

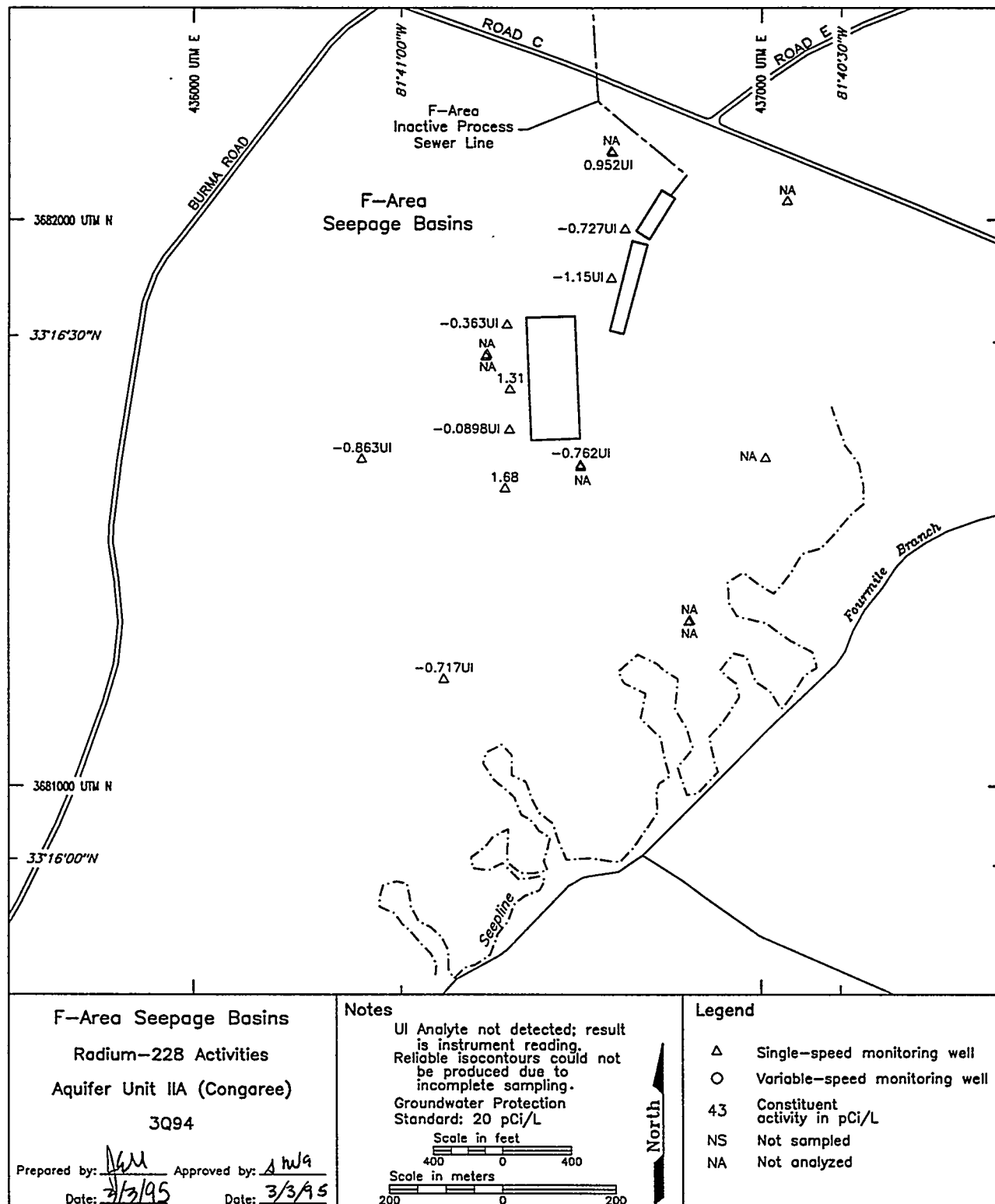


Figure 28. Radium-228 Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Third Quarter 1994

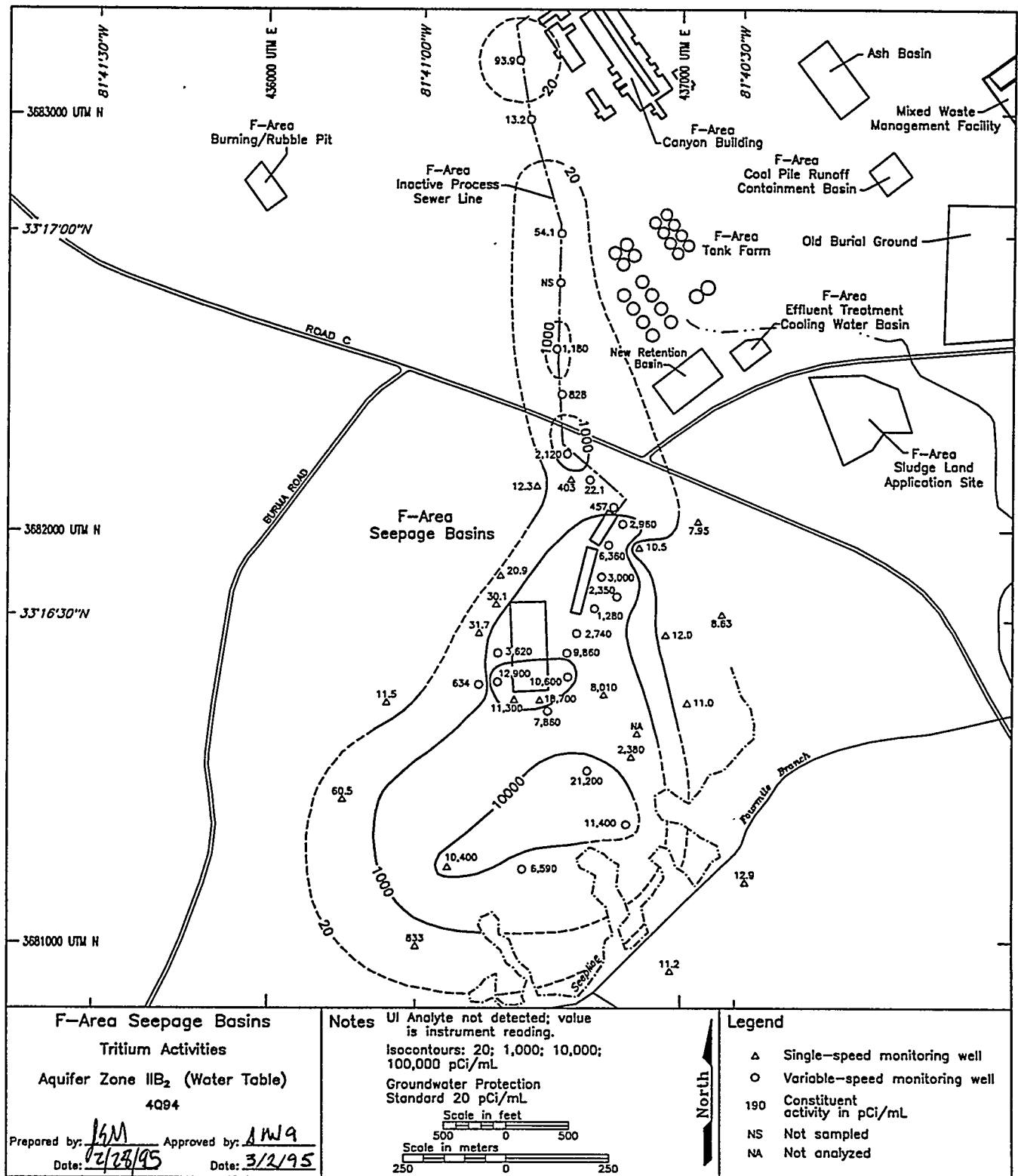


Figure 29. Tritium Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

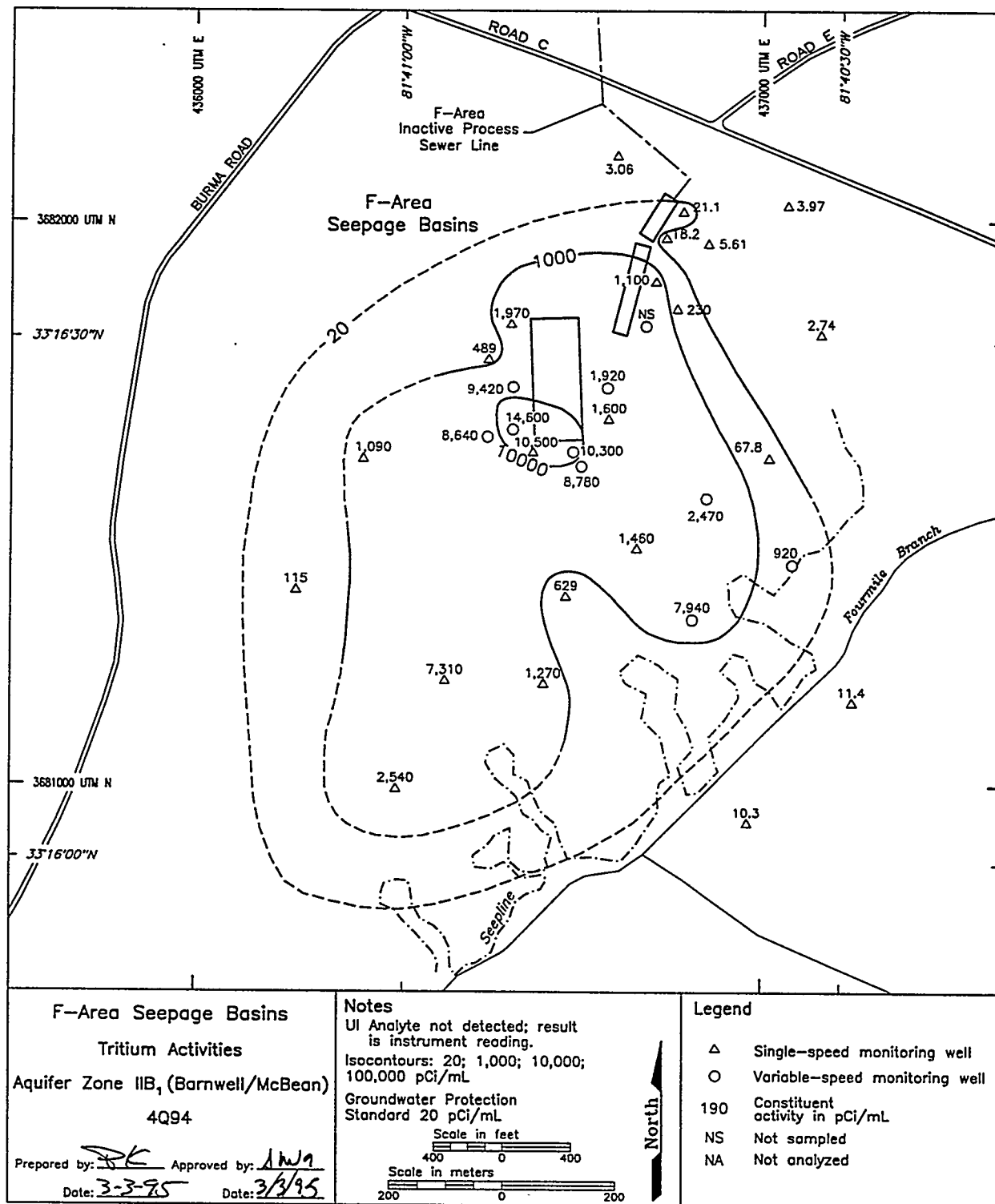


Figure 30. Tritium Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

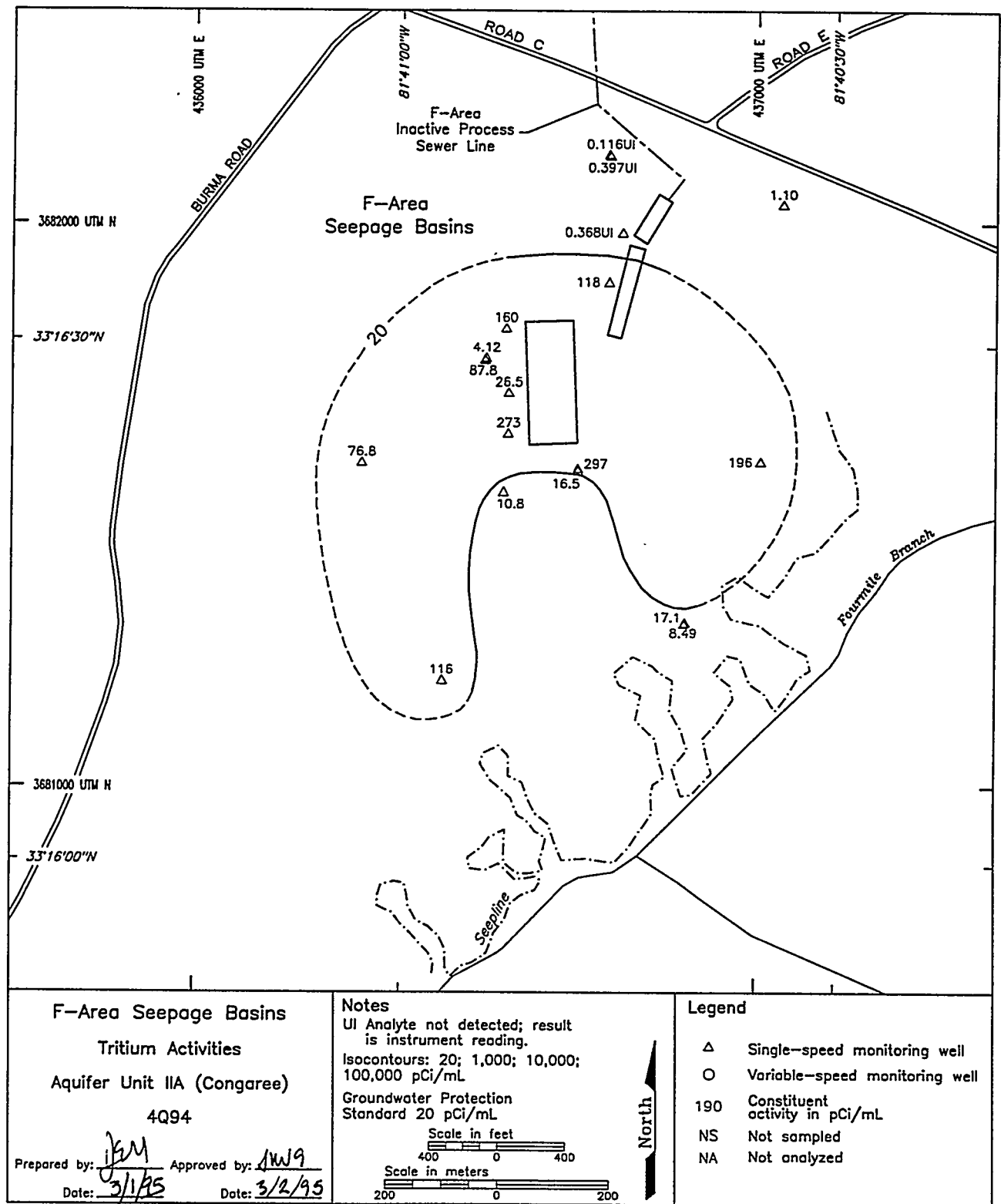


Figure 31. Tritium Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

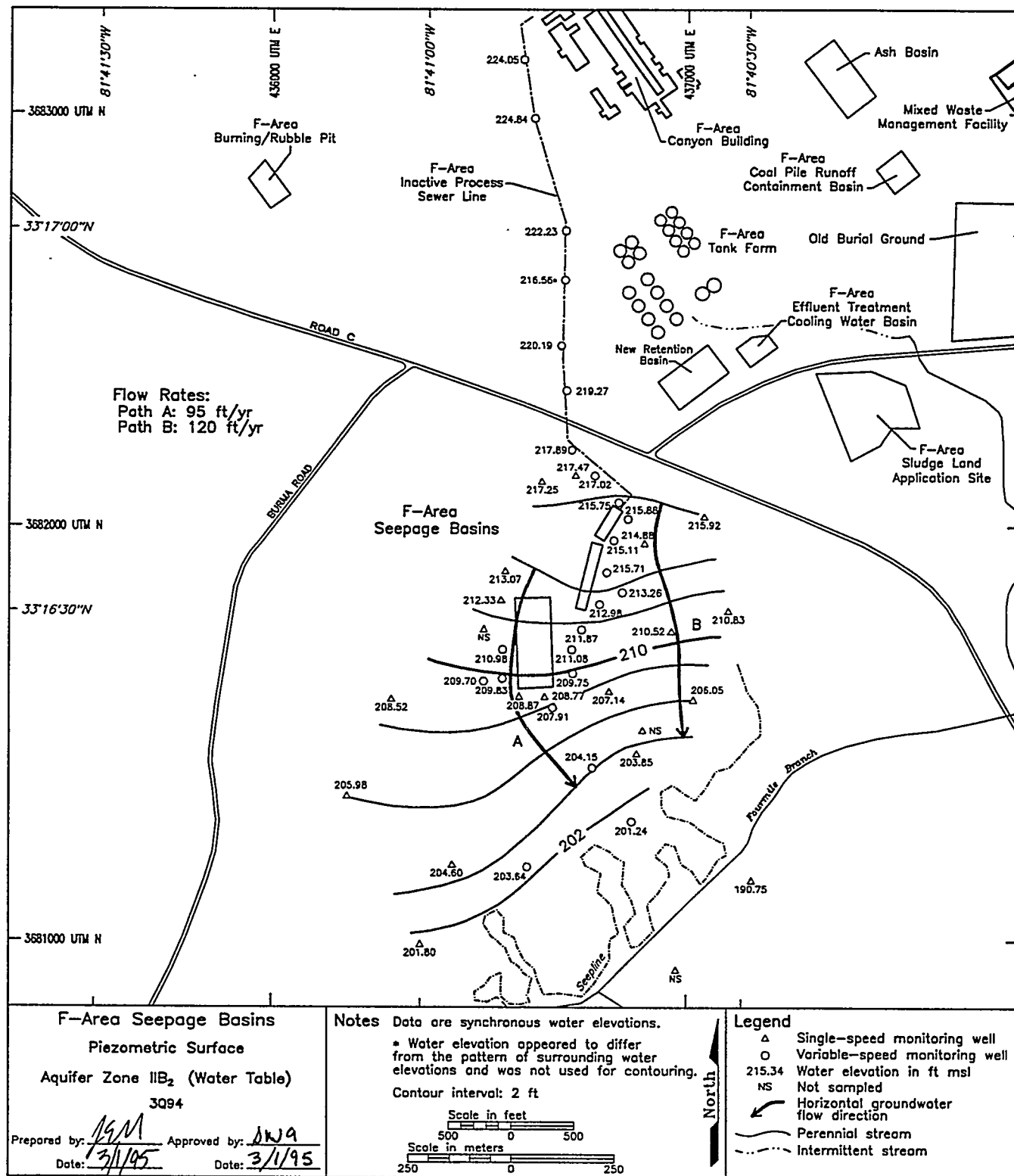


Figure 32. Piezometric Surface Map of Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Third Quarter 1994

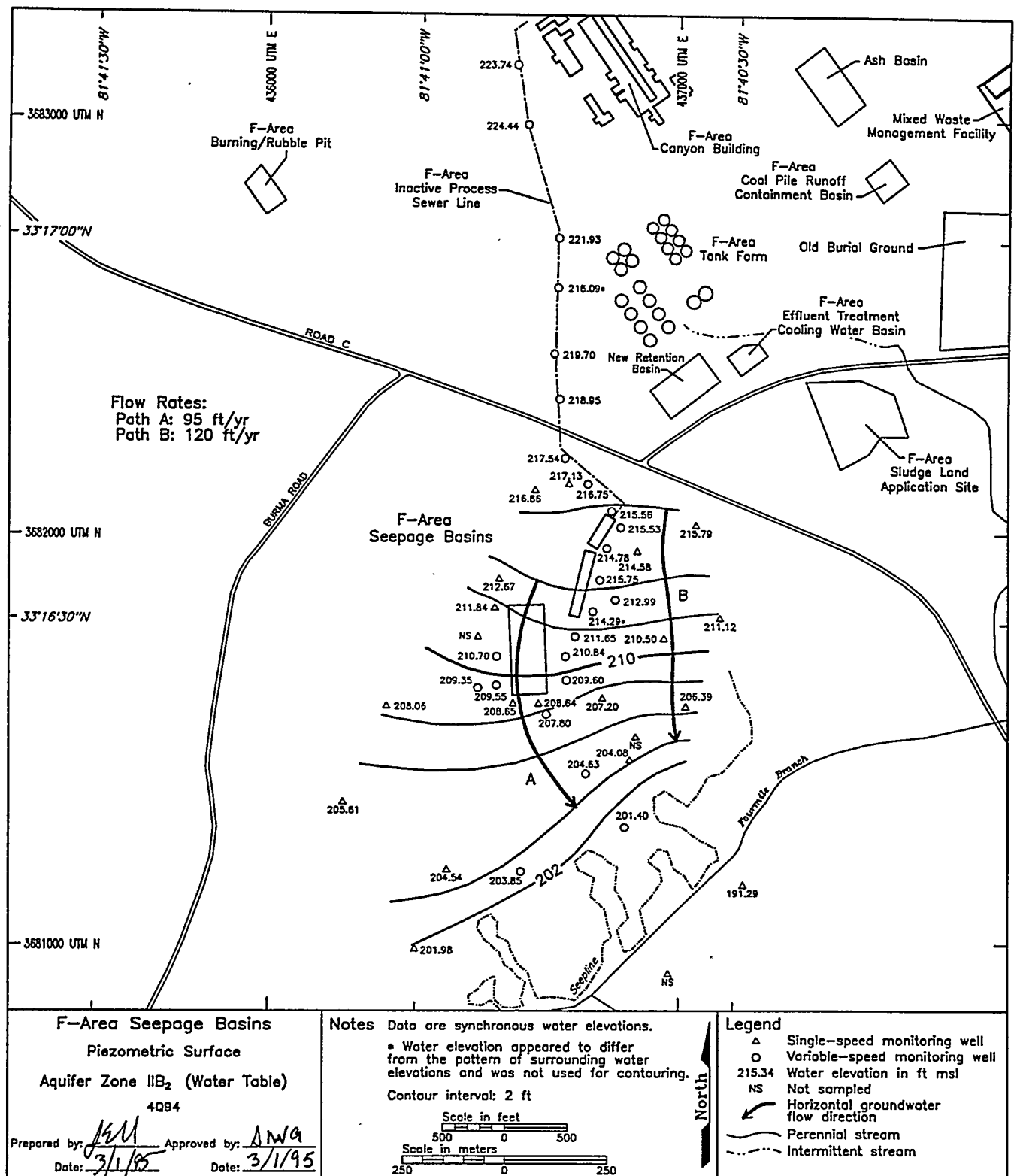


Figure 33. Piezometric Surface Map of Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

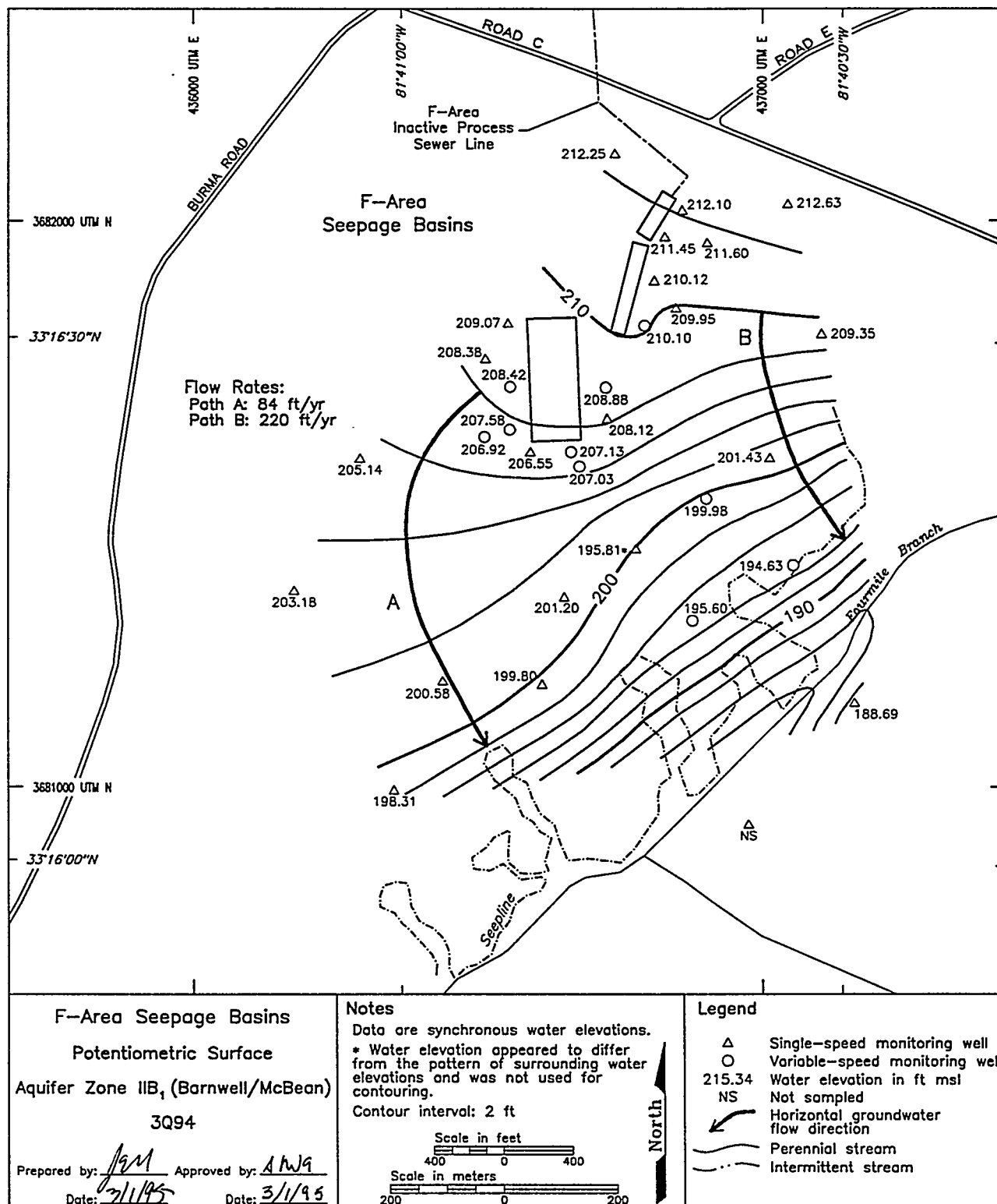


Figure 34. Potentiometric Surface Map of Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Third Quarter 1994

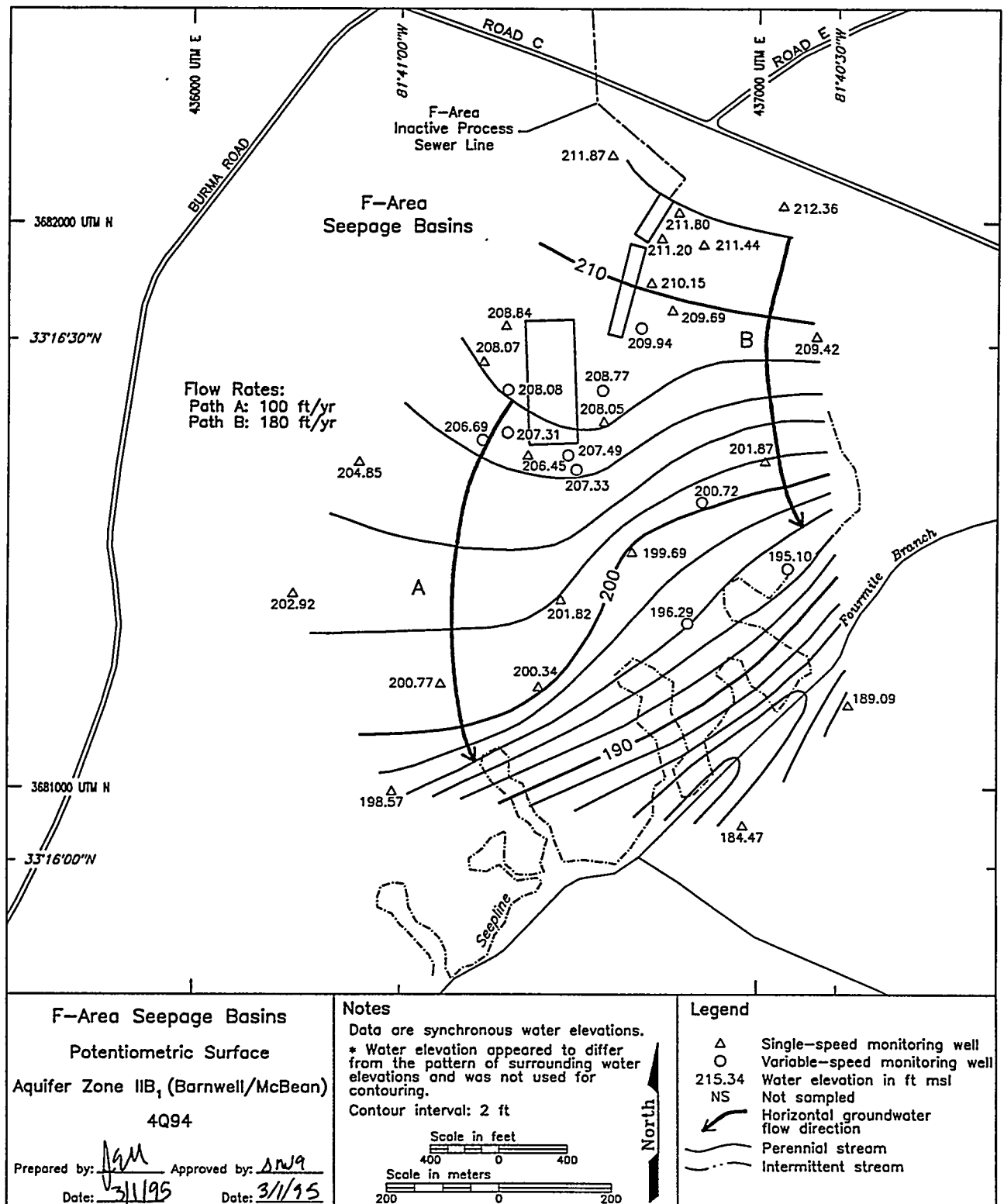


Figure 35. Potentiometric Surface Map of Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

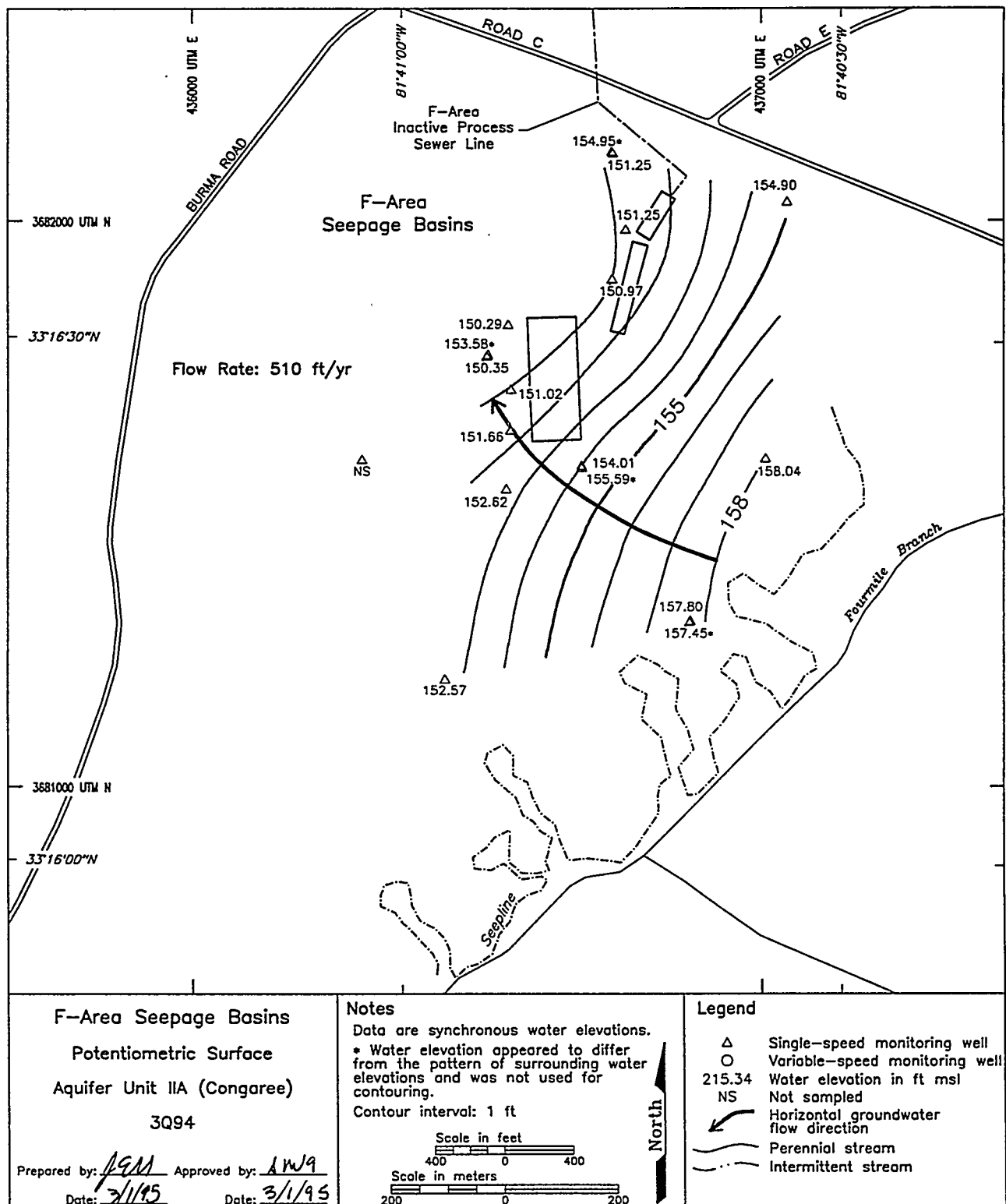


Figure 36. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Third Quarter 1994

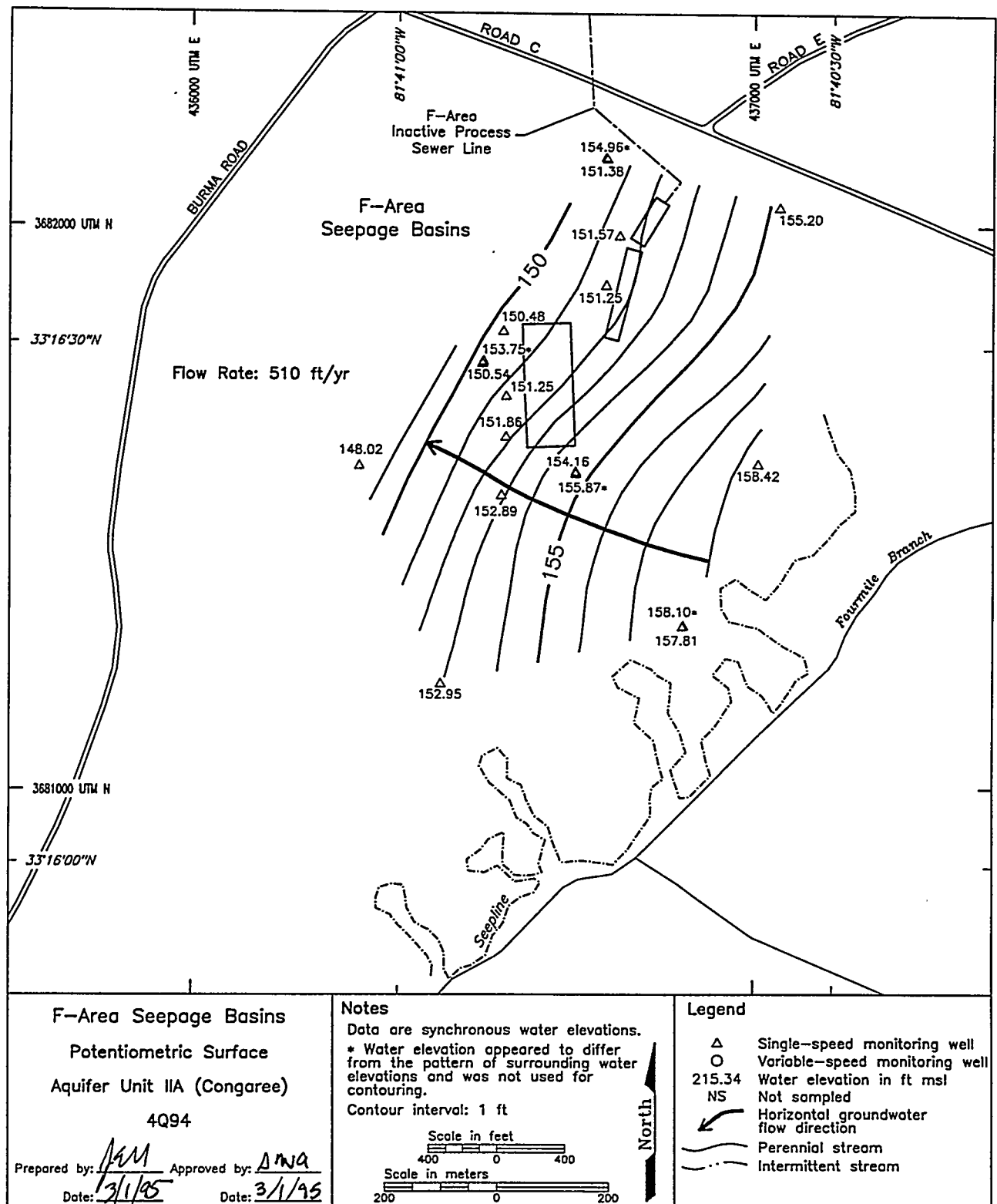


Figure 37. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

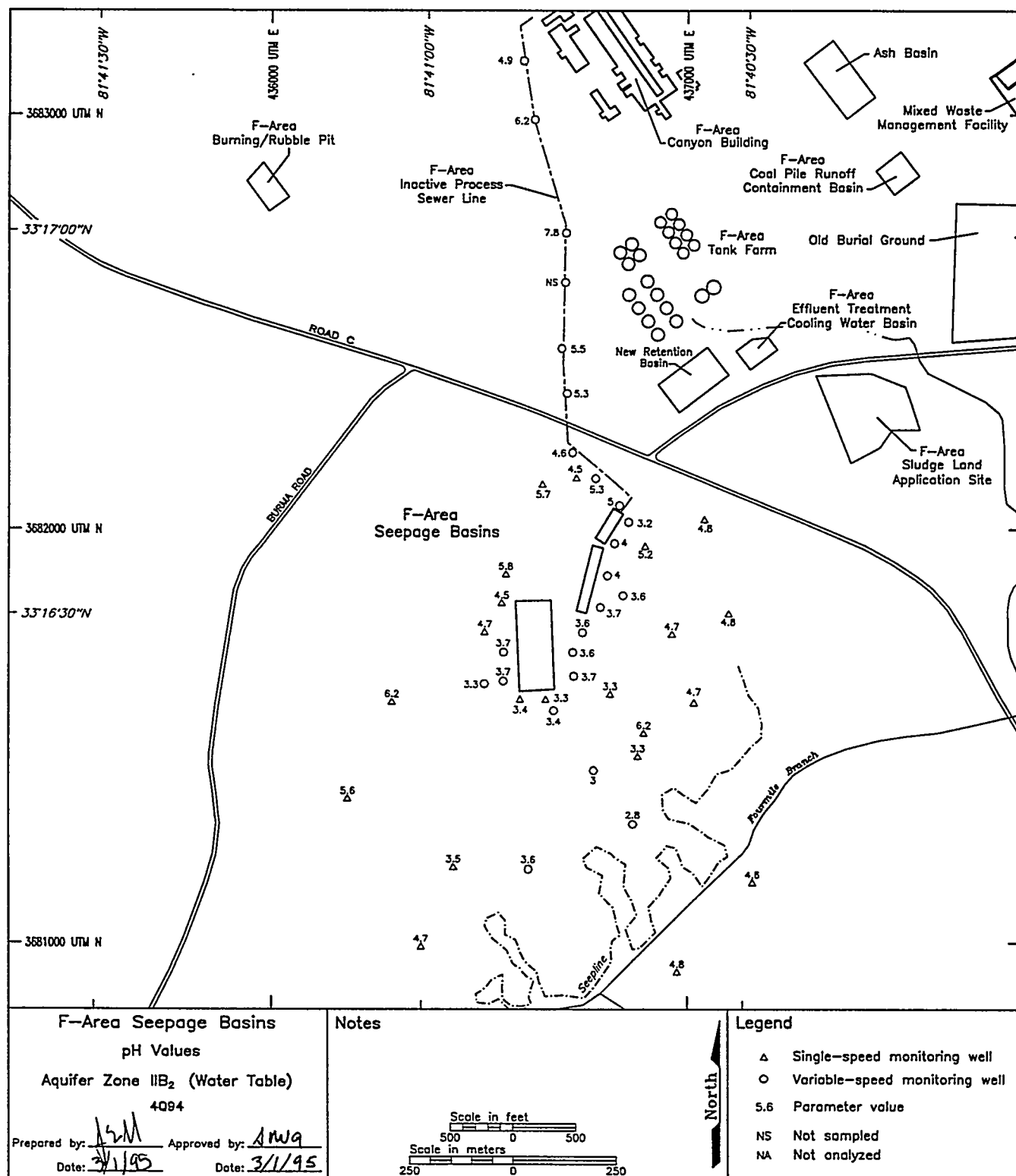


Figure 38. pH Values in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

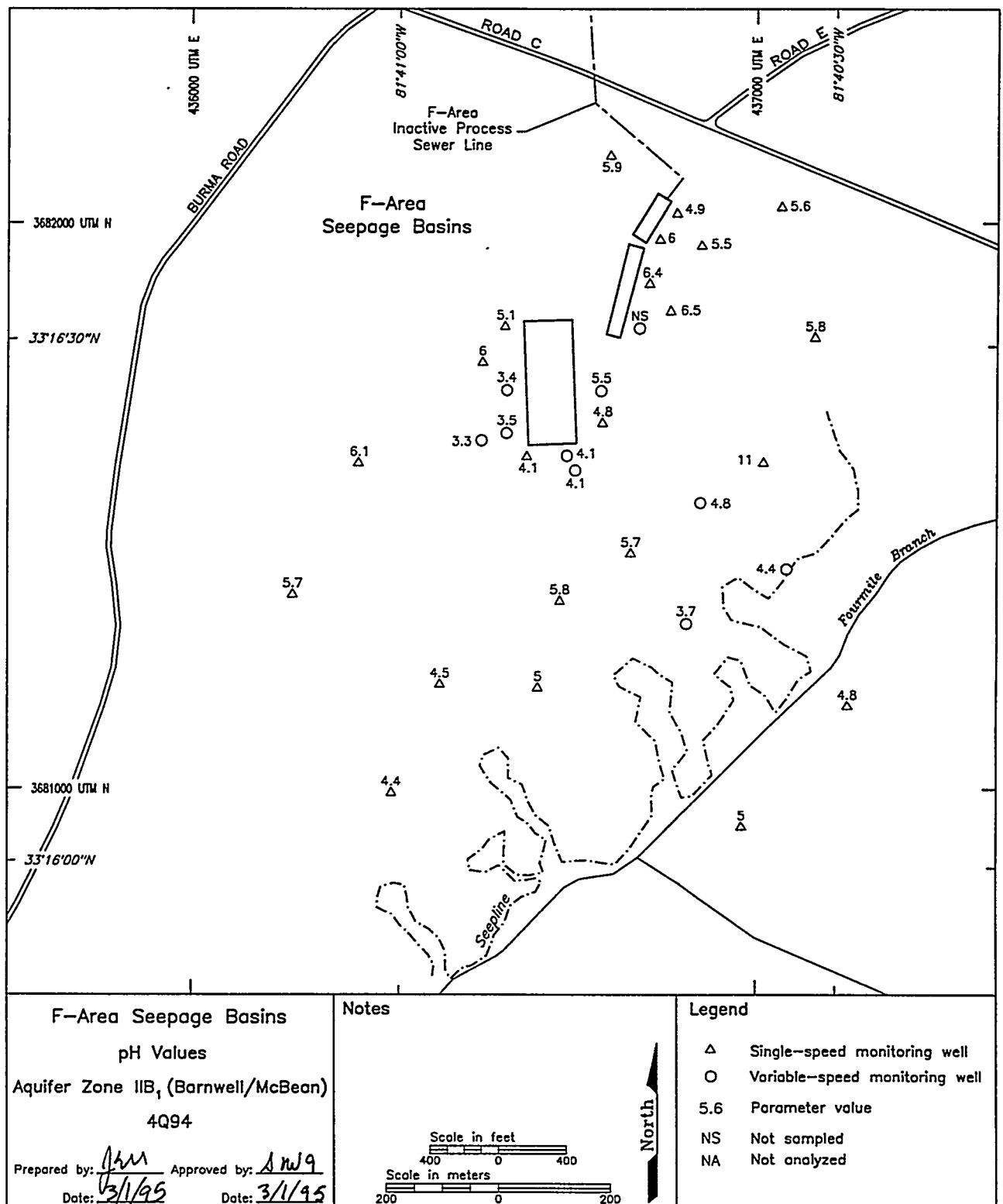


Figure 39. pH Values in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

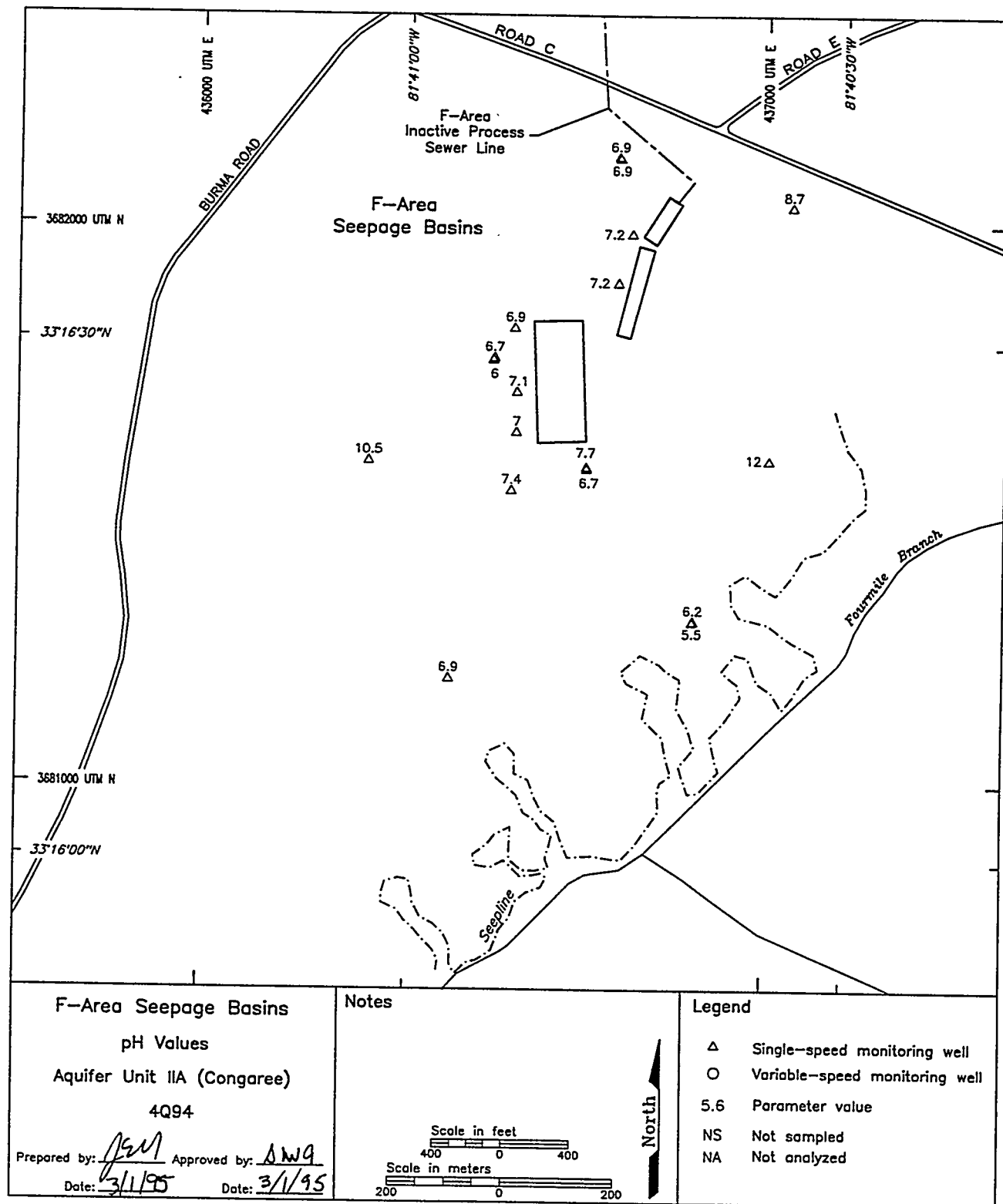


Figure 40. pH Values in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

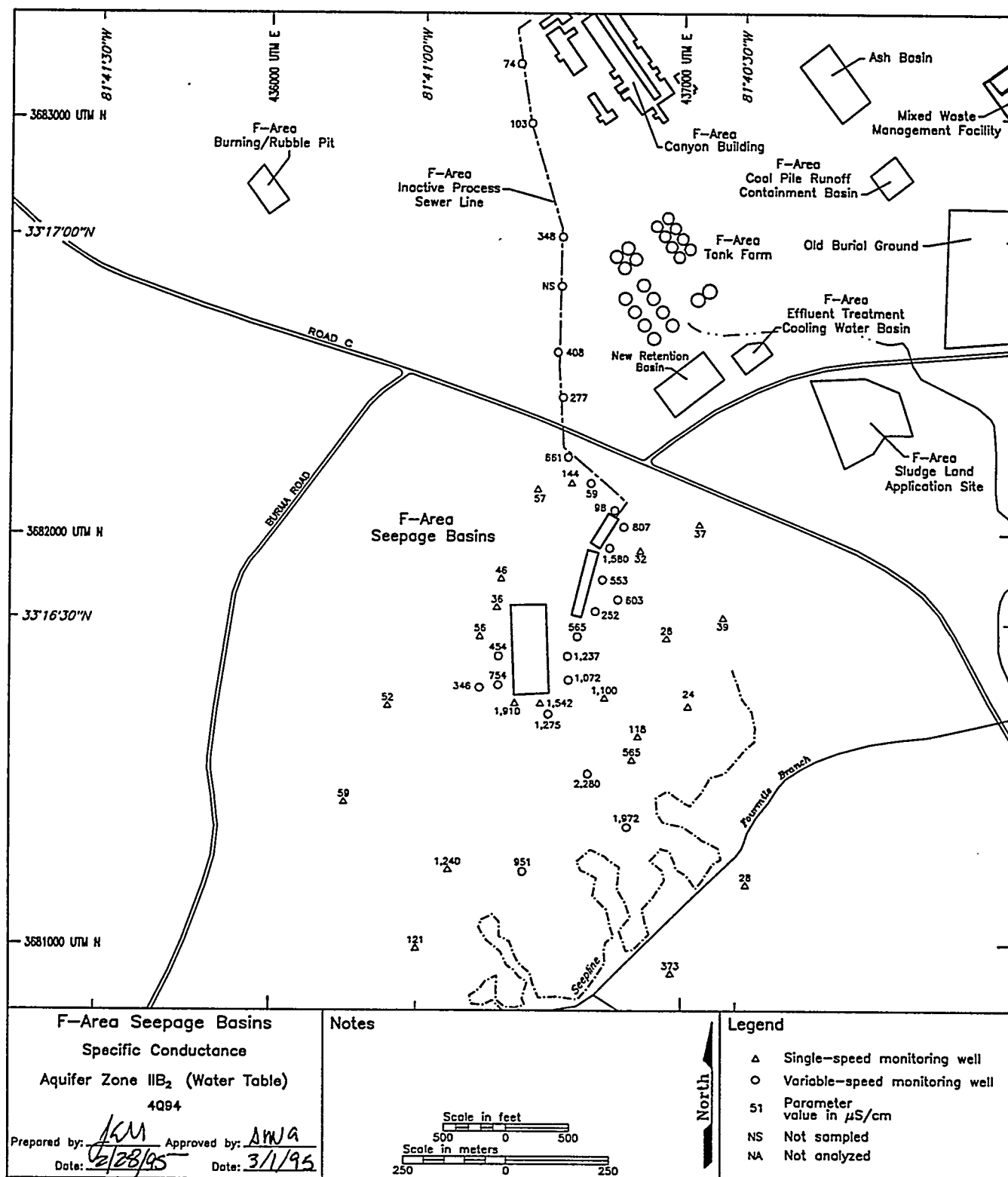


Figure 41. Specific Conductance in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, Fourth Quarter 1994

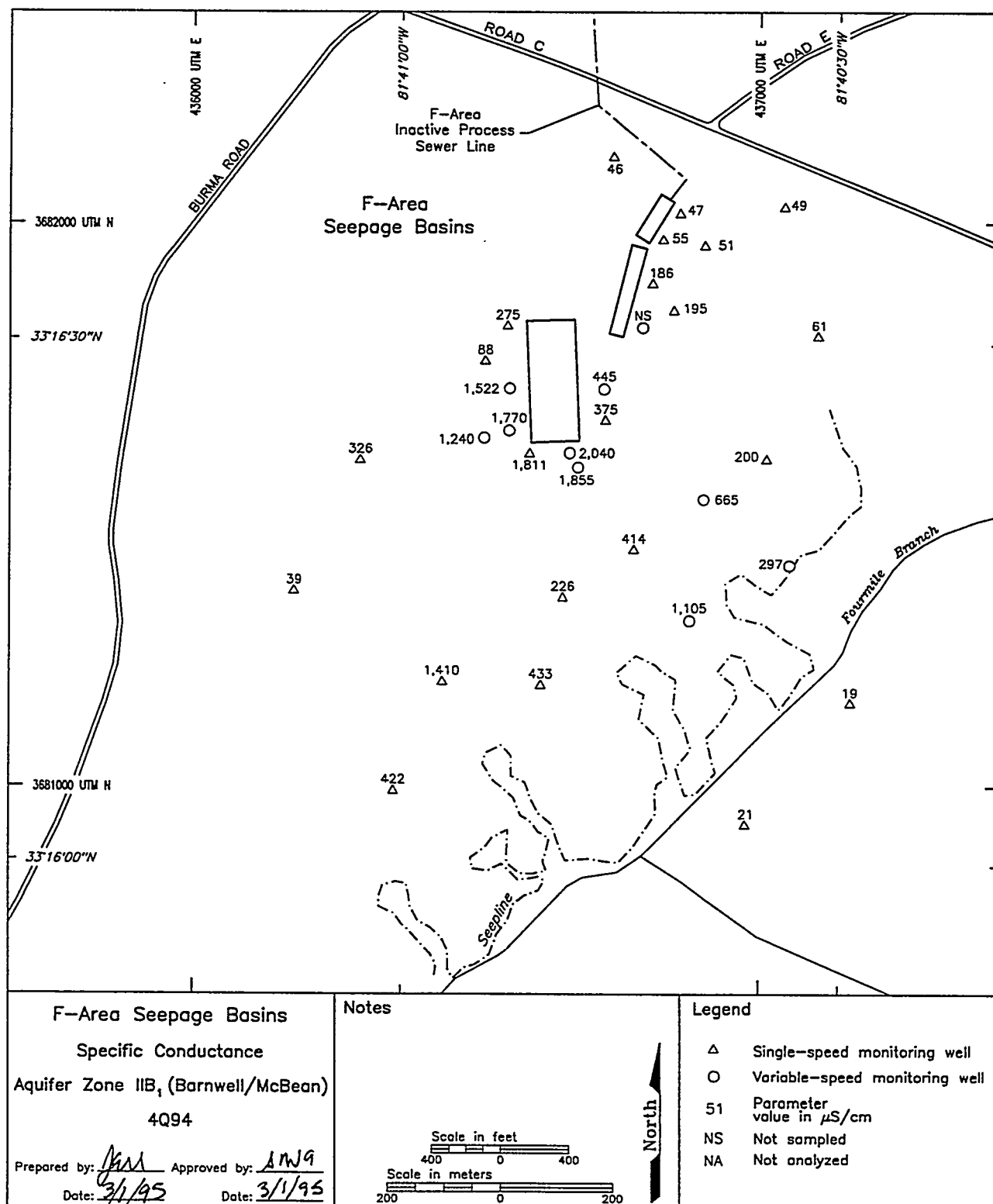


Figure 42. Specific Conductance in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Fourth Quarter 1994

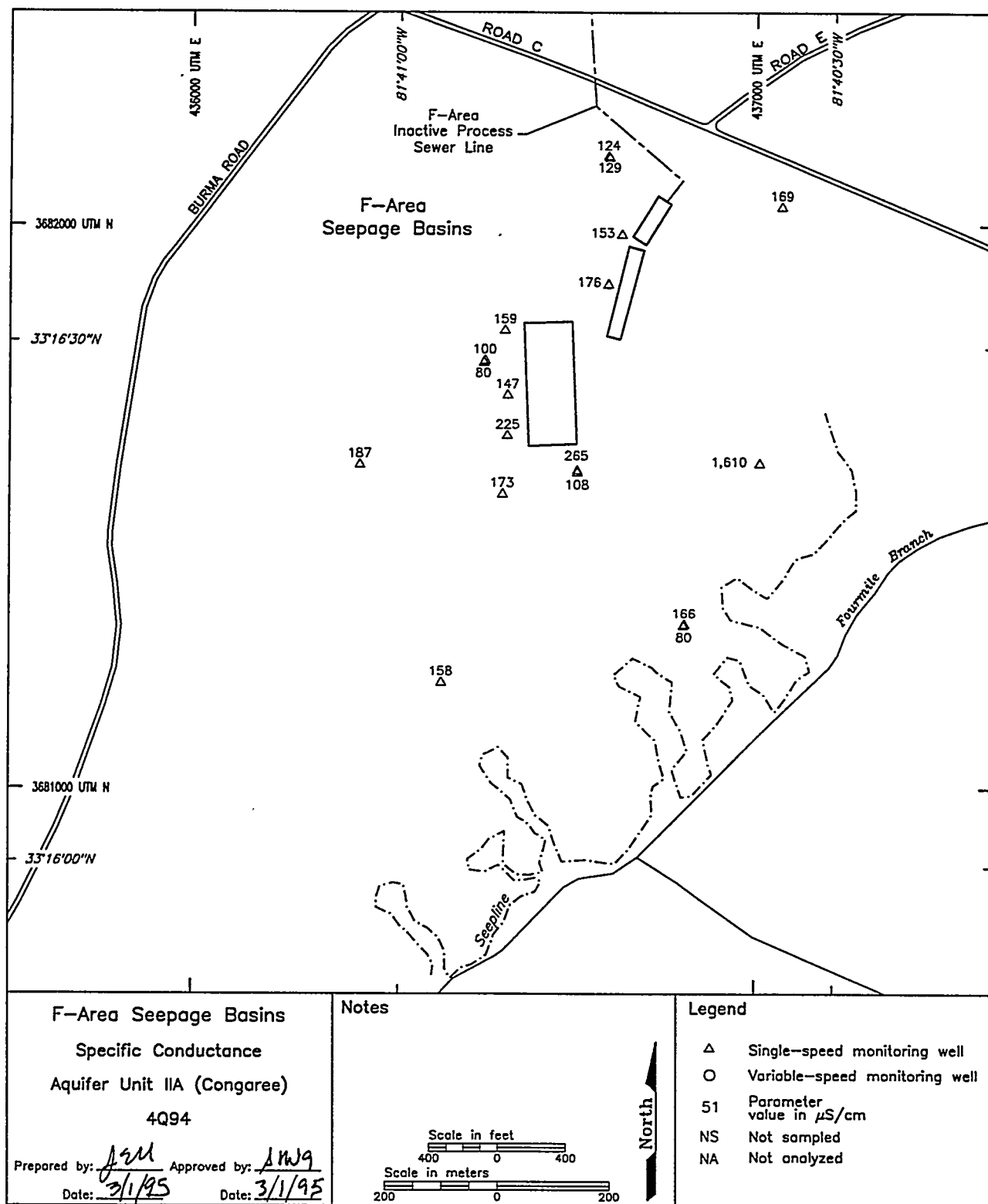


Figure 43. Specific Conductance in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Fourth Quarter 1994

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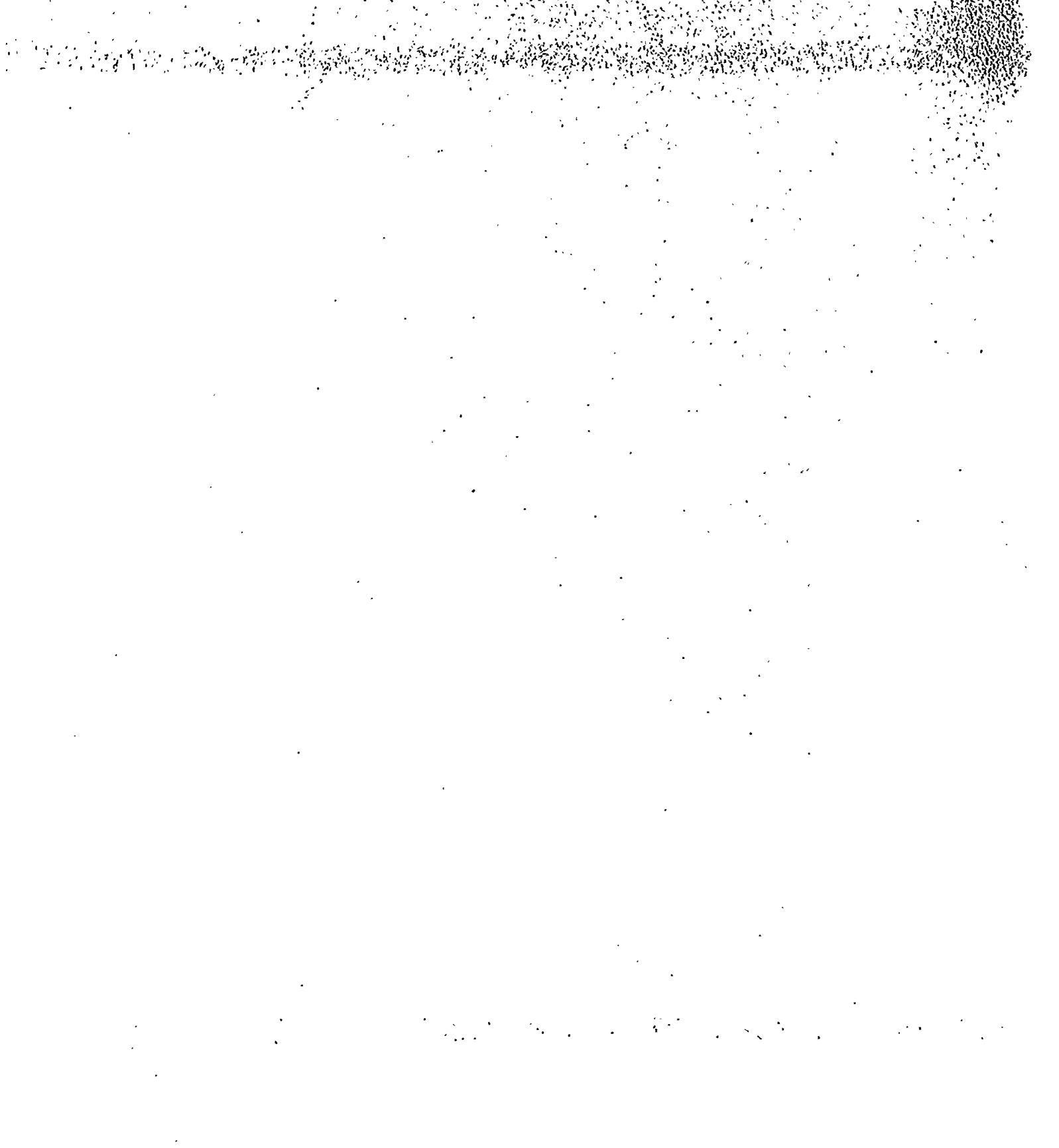
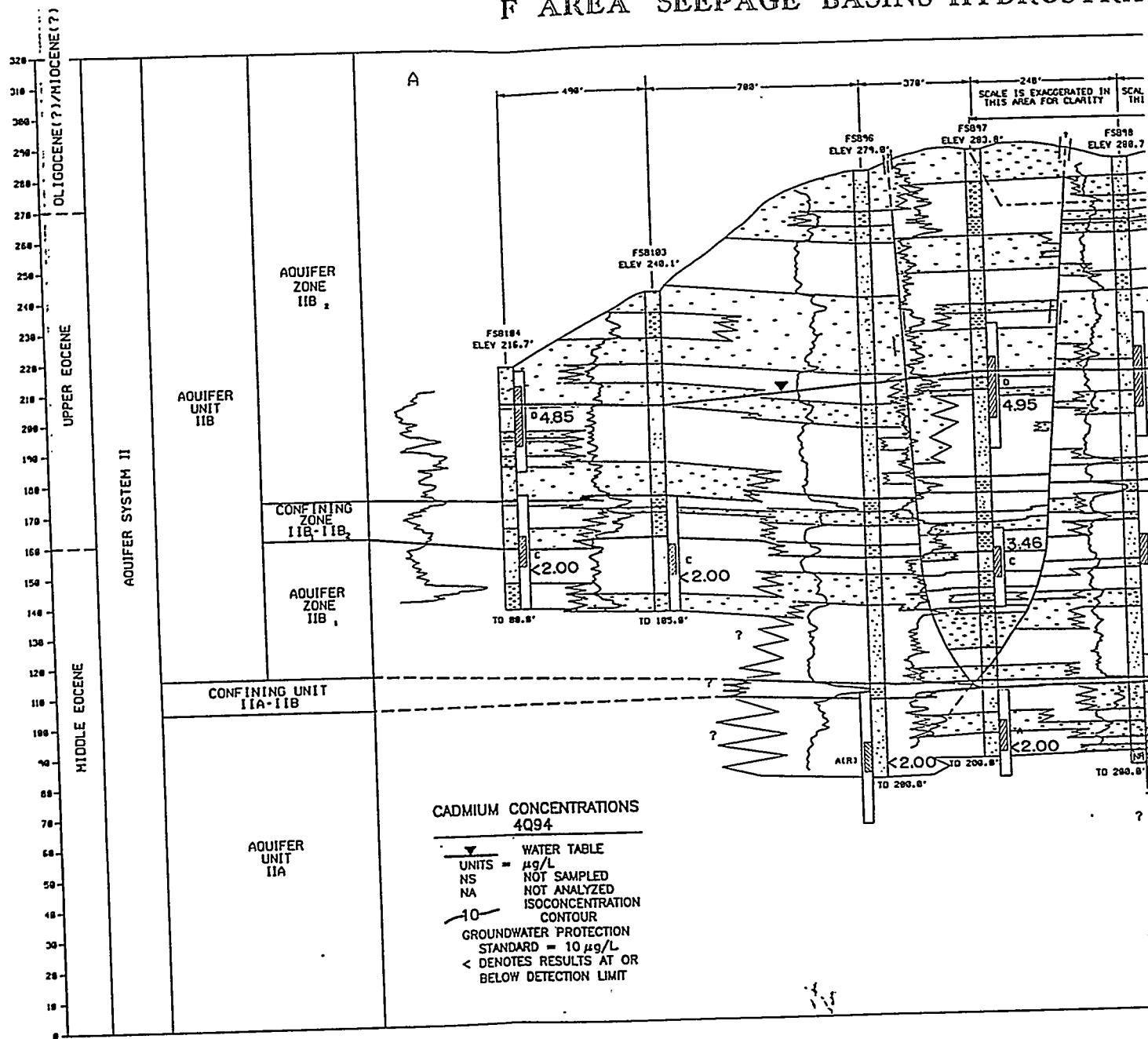


Figure 44. Hydrogeologic Cross Section Showing Cadmium Concentrations at the F-Area Seepage Basins, Fourth Quarter 1994

Figure 45. Hydrogeologic Cross Section Showing Gross Alpha Activities at the F-Area Seepage Basins, Fourth Quarter 1994

F AREA SEEPAGE BASINS HYDROSTRAT



Geological cross-section A-A' showing stratigraphic layers, well logs, and elevations. The section is oriented North (N) to South (S). The top of the section is labeled 'A'' and the bottom is labeled 'A'.

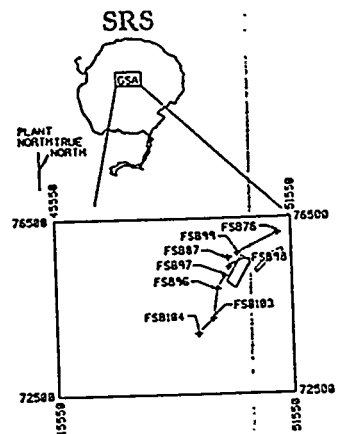
Key features and data points:

- Scale:** 1:150' (Scale is exaggerated in this area for clarity).
- Well Logs:**
 - Well 1 (Left): ELEV 285.6' (F5887), TD 261.9'.
 - Well 2 (Middle): ELEV 285.3' (F5899), TD 209.9'.
 - Well 3 (Right): ELEV 291.3' (F5876), TD 275.9'.
- Stratigraphic Layers:**
 - Top layer: Dotted pattern, labeled 'BASIN F2 PROJECTED'.
 - Layer 1: Dotted pattern, labeled '2.27'.
 - Layer 2: Dotted pattern, labeled '2.62'.
 - Layer 3: Dotted pattern, labeled '2.00'.
 - Layer 4: Dotted pattern, labeled '2.00'.
 - Layer 5: Dotted pattern, labeled '2.00'.
 - Layer 6: Dotted pattern, labeled '2.00'.
 - Layer 7: Dotted pattern, labeled '2.00'.
 - Layer 8: Dotted pattern, labeled '2.00'.
 - Layer 9: Dotted pattern, labeled '2.00'.
 - Layer 10: Dotted pattern, labeled '2.00'.
 - Layer 11: Dotted pattern, labeled '2.00'.
 - Layer 12: Dotted pattern, labeled '2.00'.
 - Layer 13: Dotted pattern, labeled '2.00'.
 - Layer 14: Dotted pattern, labeled '2.00'.
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 - Layer 48: Dotted pattern, labeled '2.00'.
 - Layer 49: Dotted pattern, labeled '2.00'.
 - Layer 50: Dotted pattern, labeled '2.00'.
 - Layer 51: Dotted pattern, labeled '2.00'.
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 - Layer 54: Dotted pattern, labeled '2.00'.
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 - Layer 81: Dotted pattern, labeled '2.00'.
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 - Layer 83: Dotted pattern, labeled '2.00'.
 - Layer 84: Dotted pattern, labeled '2.00'.
 - Layer 85: Dotted pattern, labeled '2.00'.
 - Layer 86: Dotted pattern, labeled '2.00'.
 - Layer 87: Dotted pattern, labeled '2.00'.
 - Layer 88: Dotted pattern, labeled '2.00'.
 - Layer 89: Dotted pattern, labeled '2.00'.
 - Layer 90: Dotted pattern, labeled '2.00'.
 - Layer 91: Dotted pattern, labeled '2.00'.
 - Layer 92: Dotted pattern, labeled '2.00'.
 - Layer 93: Dotted pattern, labeled '2.00'.
 - Layer 94: Dotted pattern, labeled '2.00'.
 - Layer 95: Dotted pattern, labeled '2.00'.
 - Layer 96: Dotted pattern, labeled '2.00'.
 - Layer 97: Dotted pattern, labeled '2.00'.
 - Layer 98: Dotted pattern, labeled '2.00'.
 - Layer 99: Dotted pattern, labeled '2.00'.
 - Layer 100: Dotted pattern, labeled '2.00'.

	CALCREOUS SAND
	CALCREOUS MUD
	CLAYEY SAND
	SAND
	GRAVEL/PEBBLES
	SILT/CLAY
	SANDY LIMESTONE
	LIMESTONE
	SANDY MUDDY LIMESTONE
	MUDDY LIMESTONE
	SANDY CLAY

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
—— = DELINEATES CONFINING ZONE
AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20

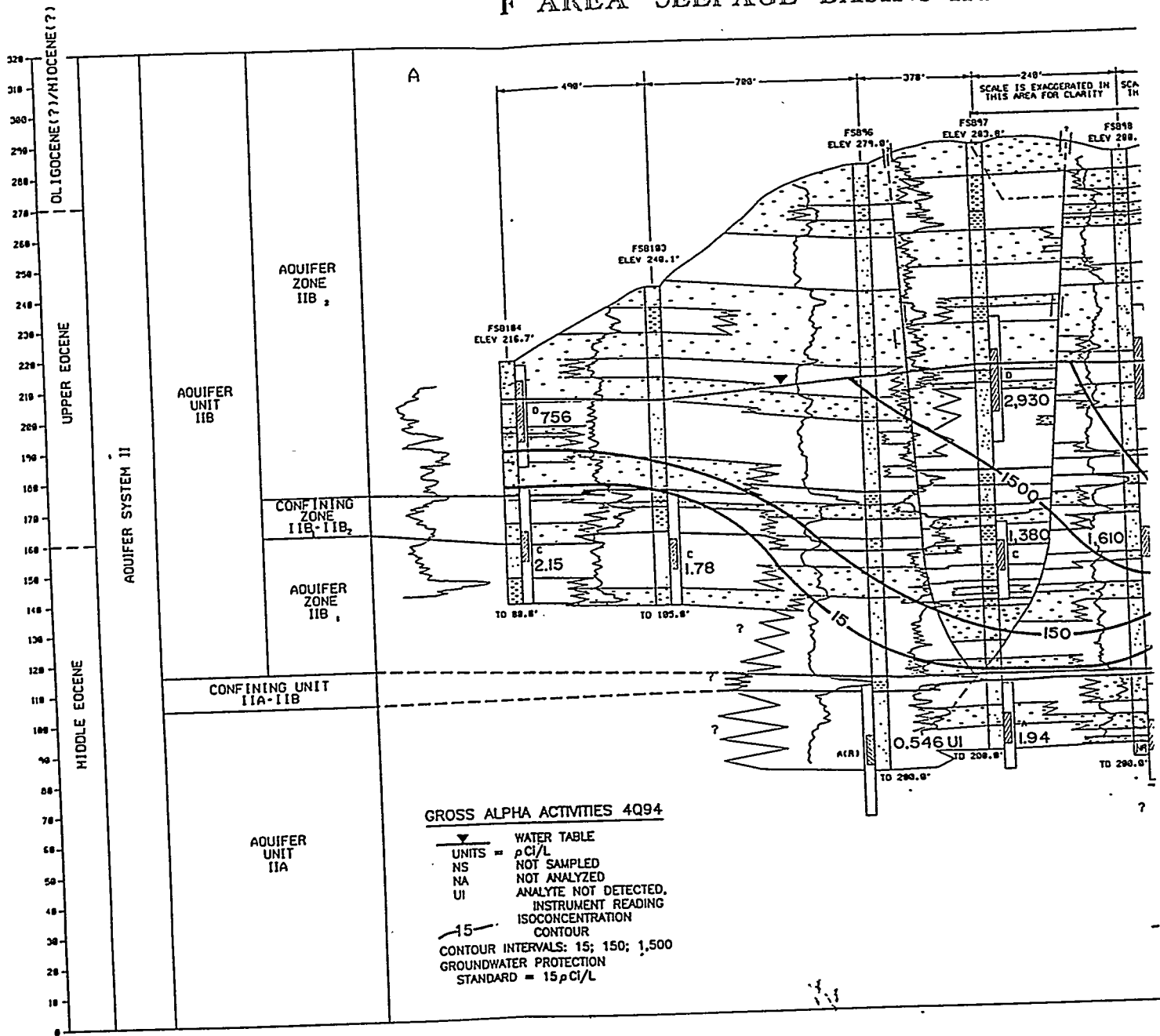


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SAVANNAH RIVER SITE		Protecting the Environment Today for a Cleaner Tomorrow					
NO.	F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A						
DATE	CREATED BY	DATE	APPROVED BY	DATE			
93	ROD BOLT	93	C. M. LEWIS	93			
DATE	REVIEWED BY	DATE	APPROVED BY	DATE			
93	TRACY MOXLEY	93	T. F. CAUGHAN	93			
DATE	APPROVED BY	DATE	APPROVED BY	DATE			
93	R. A. MOULDER	93	F. V. WESTERBROOK	93			
DATE	APPROVED BY	DATE	APPROVED BY	DATE			
93	M. K. HARRIS	93	C. Y. THOMPSON	93-93			

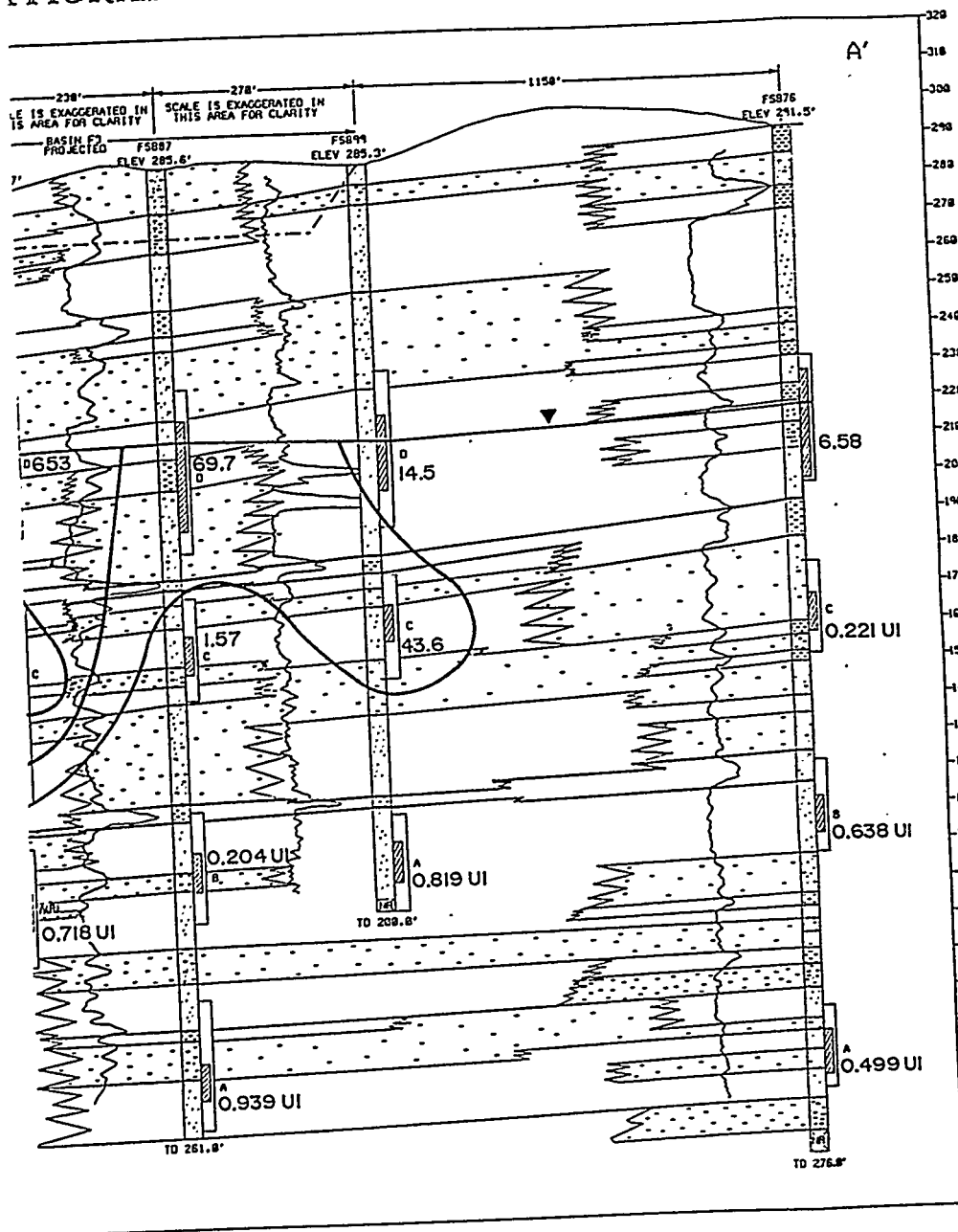
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2	2-20-93	COVERED GUMB SECTION	CL	93	ROD BOLT	93
3	2-20-93	COVERED GUMB SECTION	CL	93	REMOVED BY	93
4	2-20-93	COVERED GUMB SECTION	CL	93	FRANCY MOLEY	93
5	2-20-93	COVERED GUMB SECTION	CL	93	REMOVED BY	93
6	2-20-93	COVERED GUMB SECTION	CL	93	R. M. WESTERBROOK	93
7	2-20-93	COVERED GUMB SECTION	CL	93	REMOVED BY	93
8	2-20-93	COVERED GUMB SECTION	CL	93	M. K. KARPIS	93
9	2-20-93	COVERED GUMB SECTION	CL	93	C. Y. THOMPSON	93

CADMIUM 4094

F AREA SEEPAGE BASINS HYDROSTRAT



ASTIGRAPHIC CROSS - SECTION A



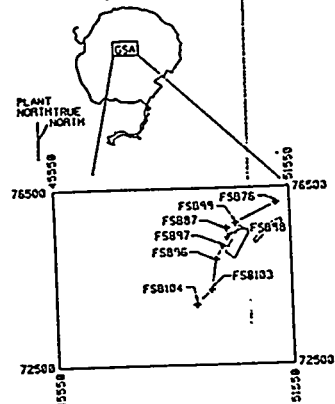
LEGEND:

	CALCAREOUS SAND
	CALCAREOUS MUD
	CLAYEY SAND
	SAND
	GRAVEL/PEEBLES
	SILT/CLAY
	SANDY LIMESTONE
	LIMESTONE
	SANDY MUDDY LIMESTONE
	MUDDY LIMESTONE
	SANDY CLAY
SAND PACK INTERVAL-INCLUDES BENTONITE SEAL SCREENED INTERVAL	

TO = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
——— = DELINEATES CONFINING ZONE
AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20

SRS



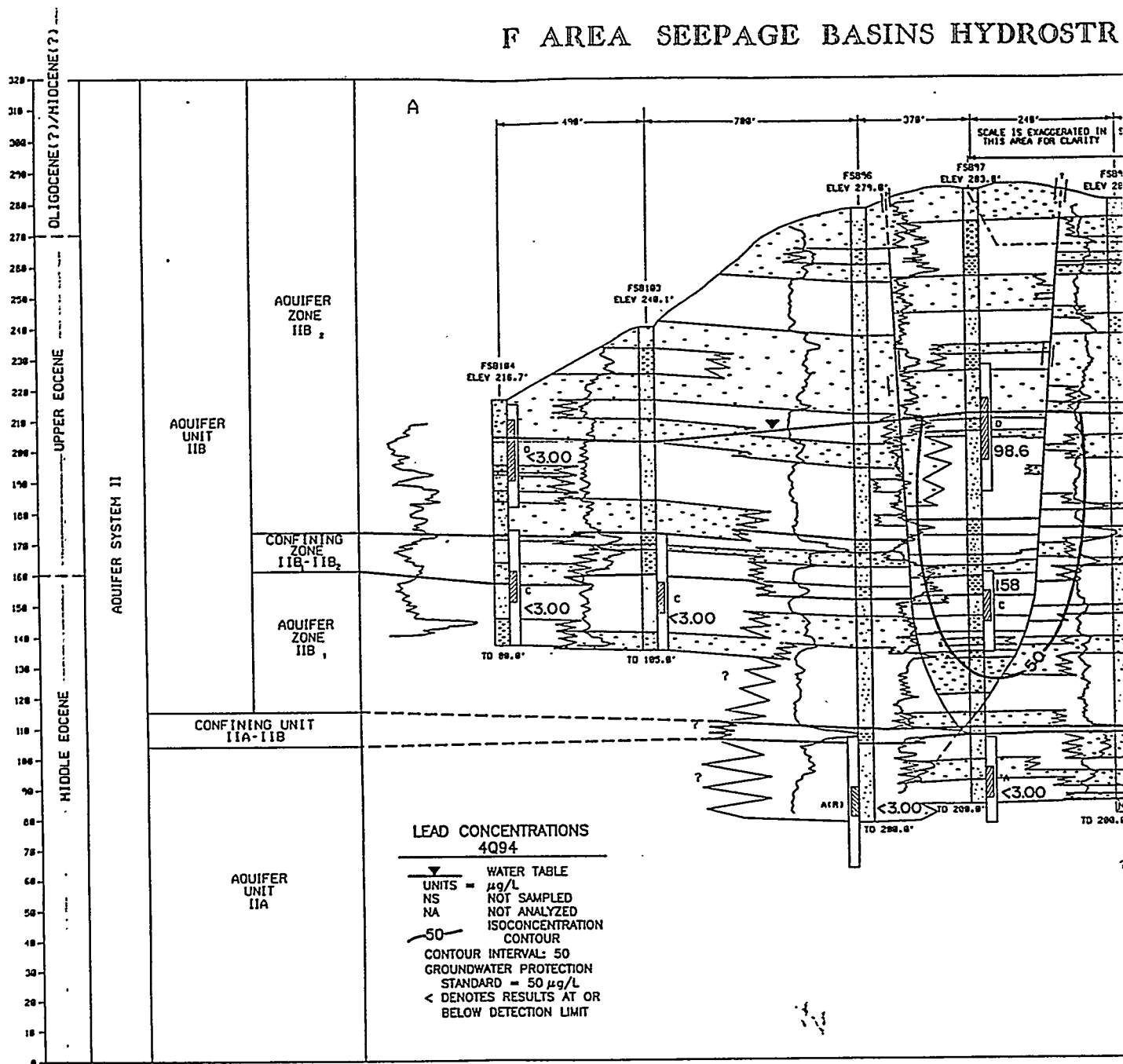
SP0073R2	2	PL 24 33	CSA
SAINT PONSSEMI - SECUR		ENVIRONMENTAL RESTORATION	
SRS			
SAVANNAH RIVER SITE		Thinking the Environment Into for a Cleaner Tomorrow	
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A			
DATE	REVISED BY	DATE	APPROVED BY
03/01/83	ROD BOLT	03/01/83	C. K. LEWIS
03/01/83	REVISION BY	03/01/83	C. K. LEWIS
03/01/83	HEATH WOOLLEY	03/01/83	T. F. CAUGHAN
03/01/83	REVISION BY	03/01/83	T. F. CAUGHAN
03/01/83	R. ANDRINO	03/01/83	T. W. WESTBROOK
03/01/83	REVISION BY	03/01/83	T. W. WESTBROOK
03/01/83	M. K. HARRIS	03/01/83	C. V. THOMPSON
03/01/83		03/01/83	

GRÖSSE ALPH 1094:

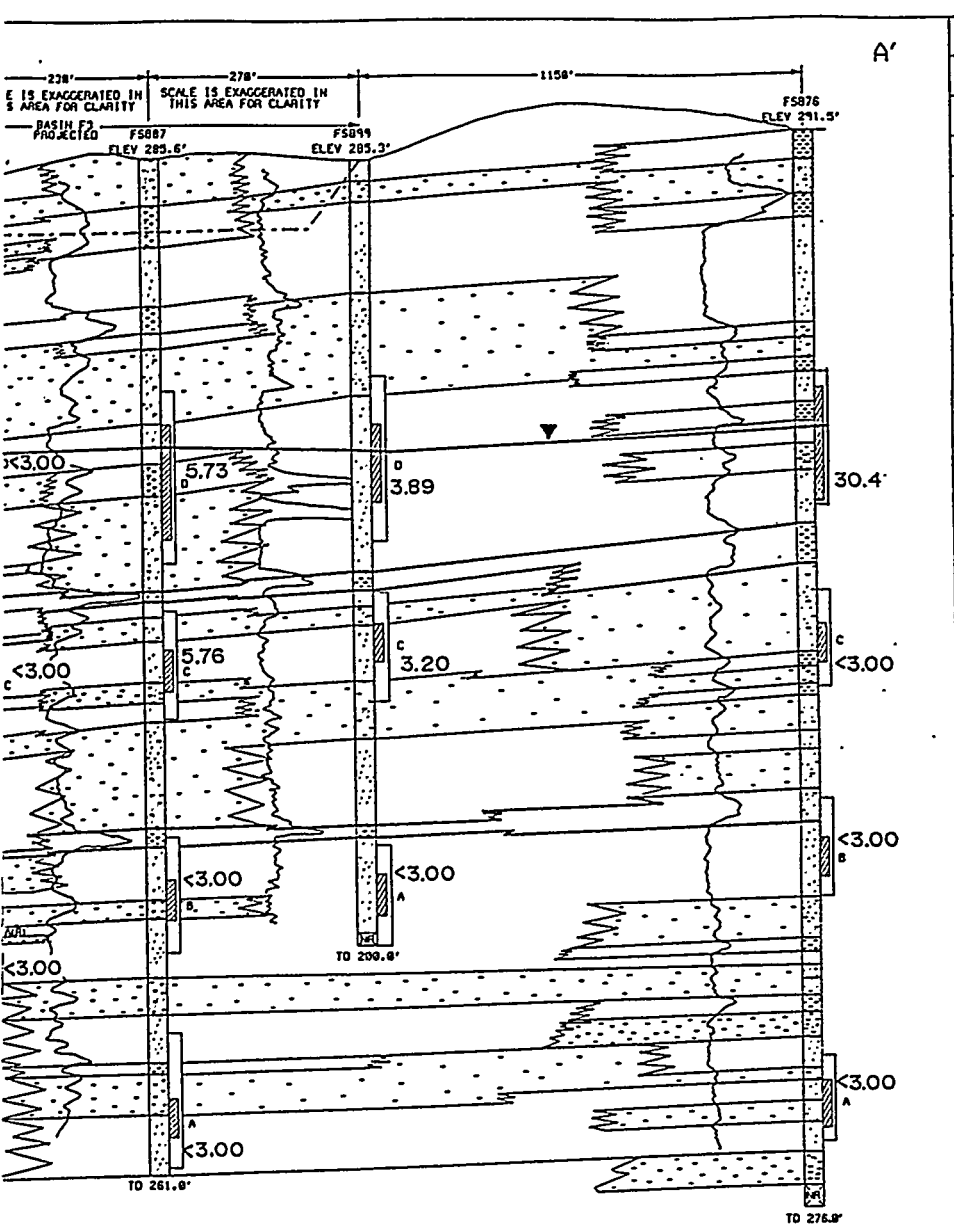
Figure 46. Hydrogeologic Cross Section Showing Lead Concentrations at the F-Area Seepage Basins, Fourth Quarter 1994

Figure 47. Hydrogeologic Cross Section Showing Nitrate Concentrations at the F-Area Seepage Basins, Fourth Quarter 1994

F AREA SEEPAGE BASINS HYDROSTR



TIGRAPHIC CROSS - SECTION A

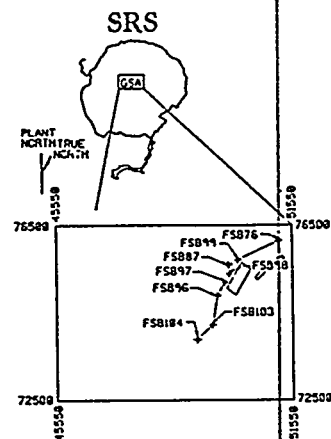


LEGEND:

- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY
- SAND PACK INTERVAL-INCLUDES BENTONITE SEAL
- SCREENED INTERVAL

TD = TOTAL DEPTH
 CSA = GENERAL SEPARATIONS AREA
 NR = NO RECOVERY
 --- = DELICATE CONFINING ZONE AND UNIT BOUNDARIES
 GEOPHYSICAL CURVE = NATURAL GAMMA

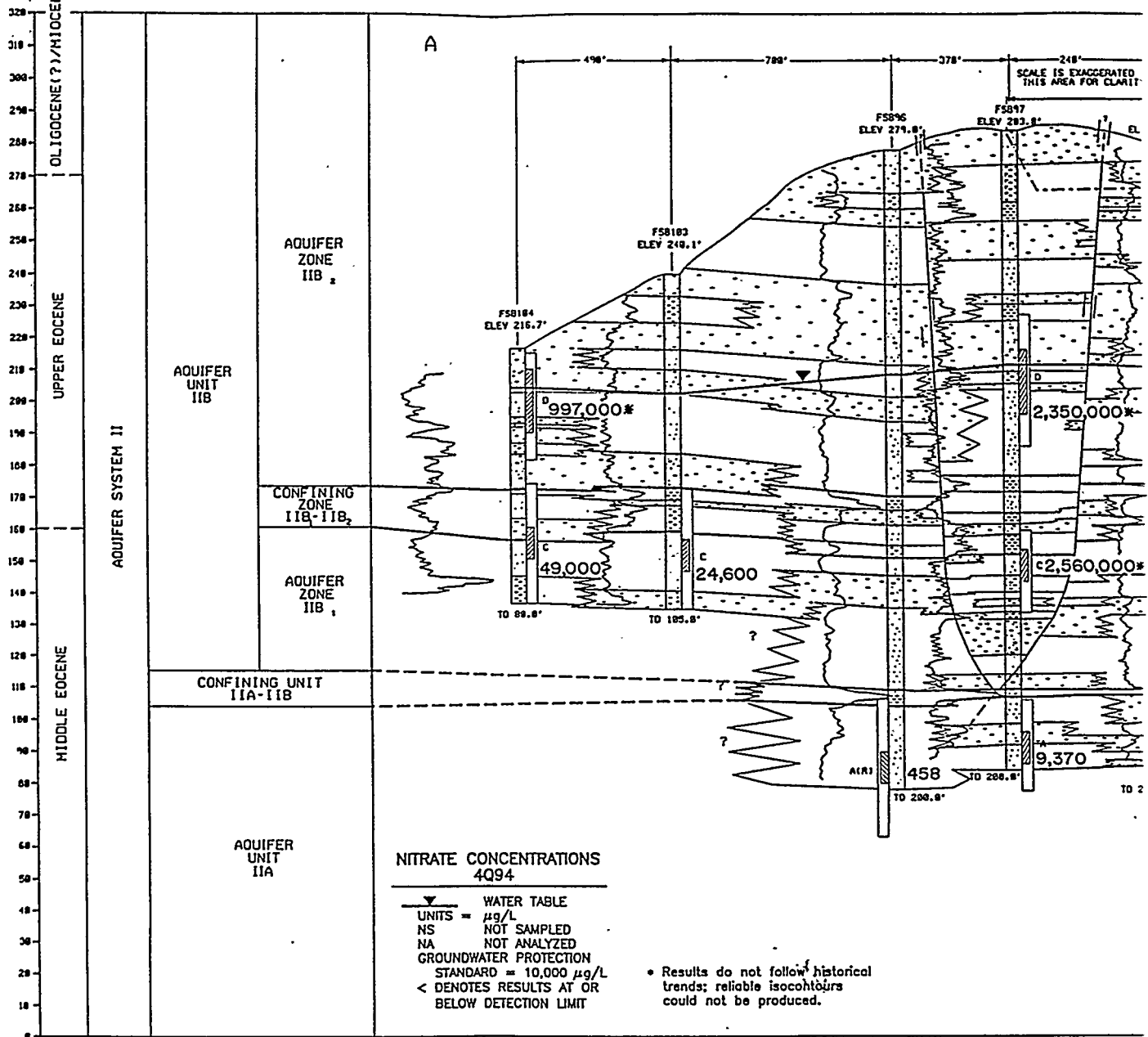
SCALE
 HORIZONTAL 1" = 100' 200'
 VERTICAL 1" = 10' 15' 20'



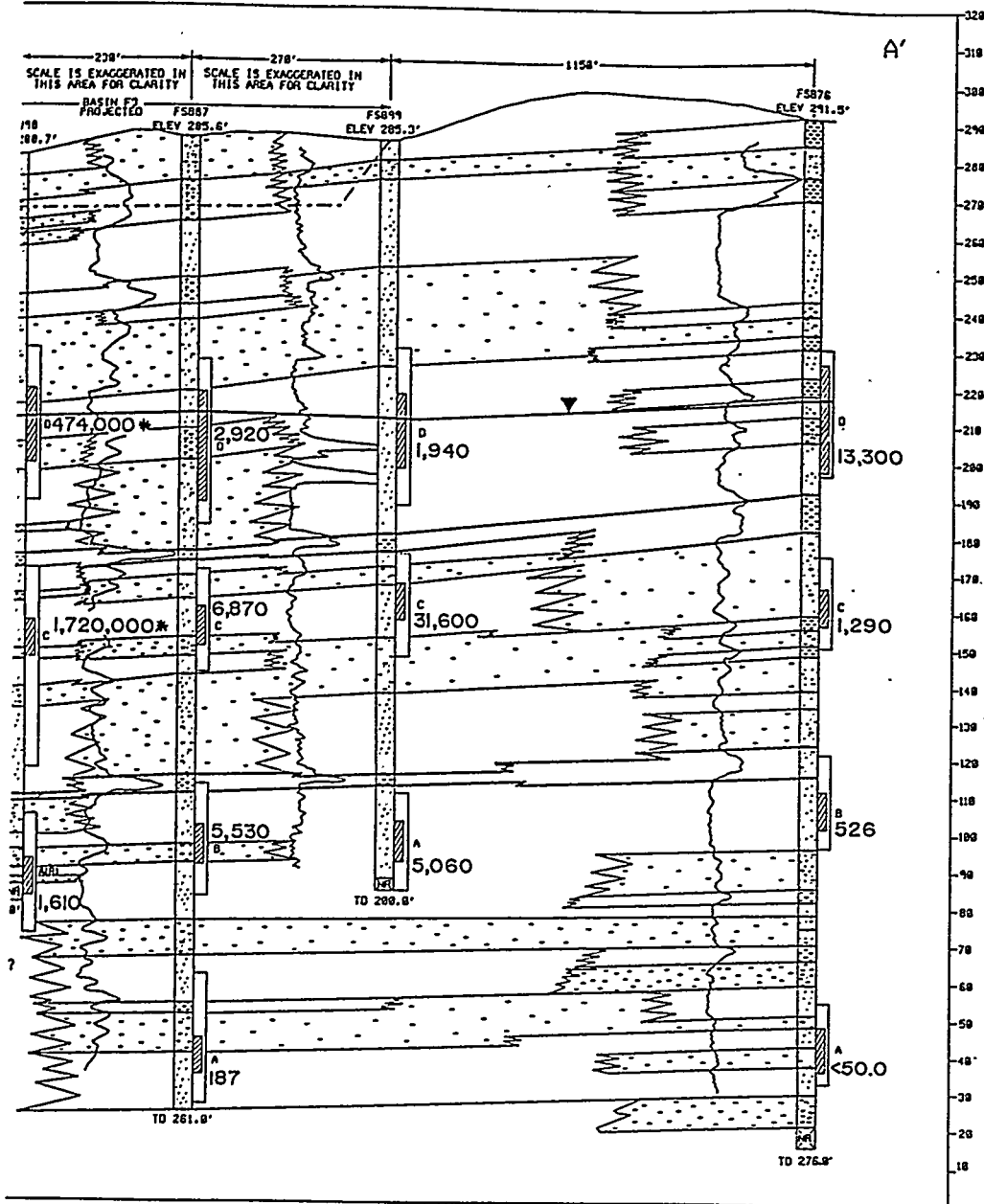
PROJECT NO.	SFD023R2	REV.	2	DATE	93	BY	CSA
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A							
DATE	93	APPROVED BY	ROD BOLT	DATE	93	APPROVED BY	C. M. LEWIS
DATE	93	APPROVED BY	TRACY MOXLEY	DATE	93	APPROVED BY	T. F. CAUGHAN
DATE	93	APPROVED BY	R. ADLAND	DATE	93	APPROVED BY	T. W. WESTERHOOF
DATE	93	APPROVED BY	M. K. HARRIS	DATE	93	APPROVED BY	C. Y. THOMPSON

LEAD: 4914

OLIGOCENE(?) / MIOCENE(?)



STRATIGRAPHIC CROSS - SECTION A

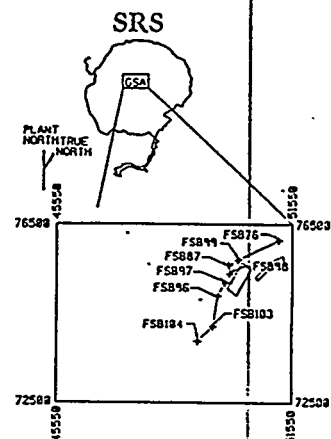


LEGEND:

- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY
- SAND PACK INTERVAL-INCLUDES BENTONITE SEAL, SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
— = DELINEATES CONFINING ZONE AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20

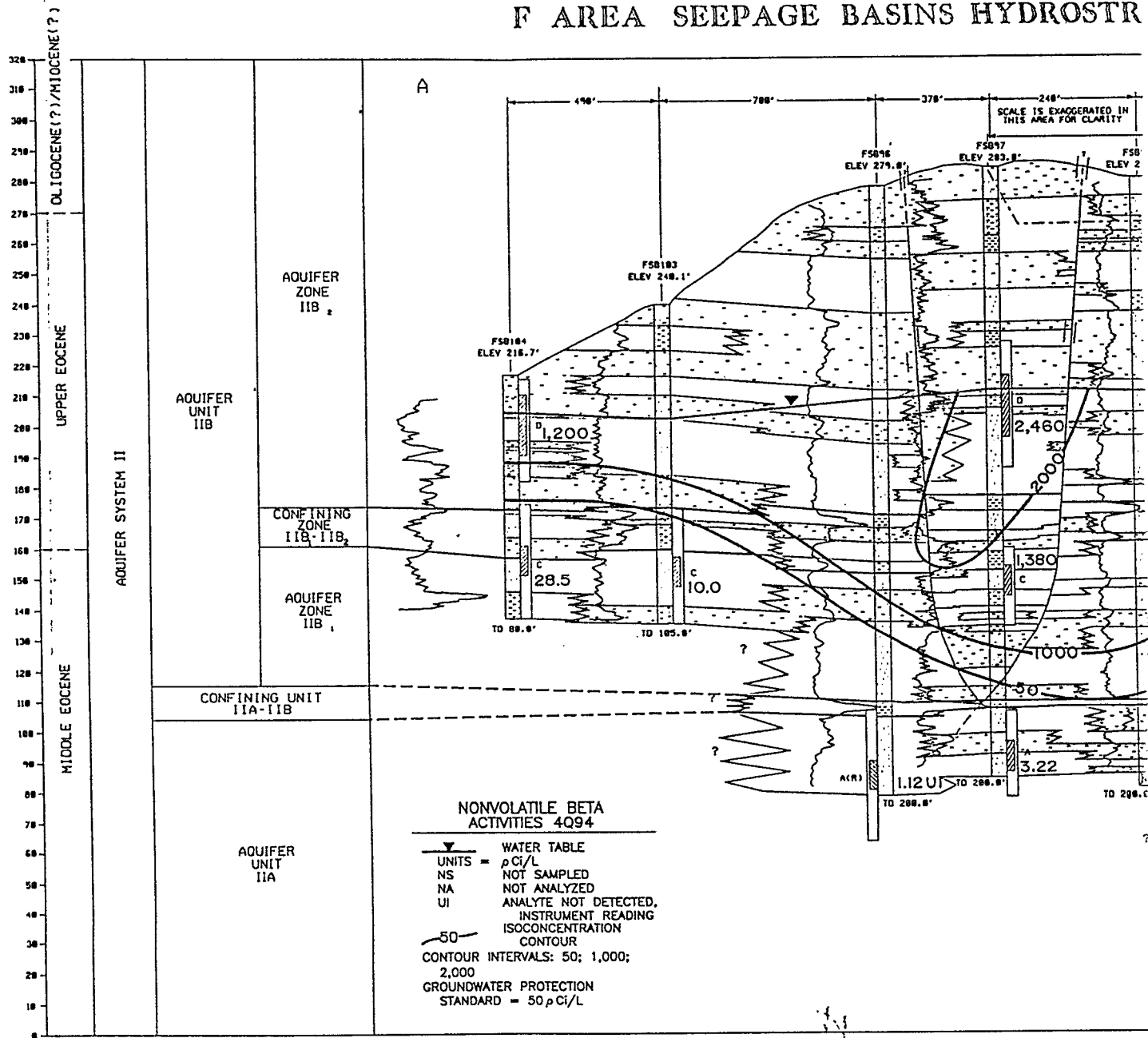


DOC NO.	57002392	REV.	2	REV. DATE	93	REV.	CSA
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A							
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CREATED BY	ROD BOLT	APPROVED BY	C. M. LEWIS	DATE	93	DATE	93
REVISED BY	TRACY MCKLEY	APPROVED BY	T. F. CAUGHAN	DATE	93	DATE	93
REVISED BY	R. ANDLAND	APPROVED BY	T. W. WESTBROOK	DATE	93	DATE	93
REVISED BY	M. K. HARRIS	APPROVED BY	C. Y. THOMPSON	DATE	93	DATE	93

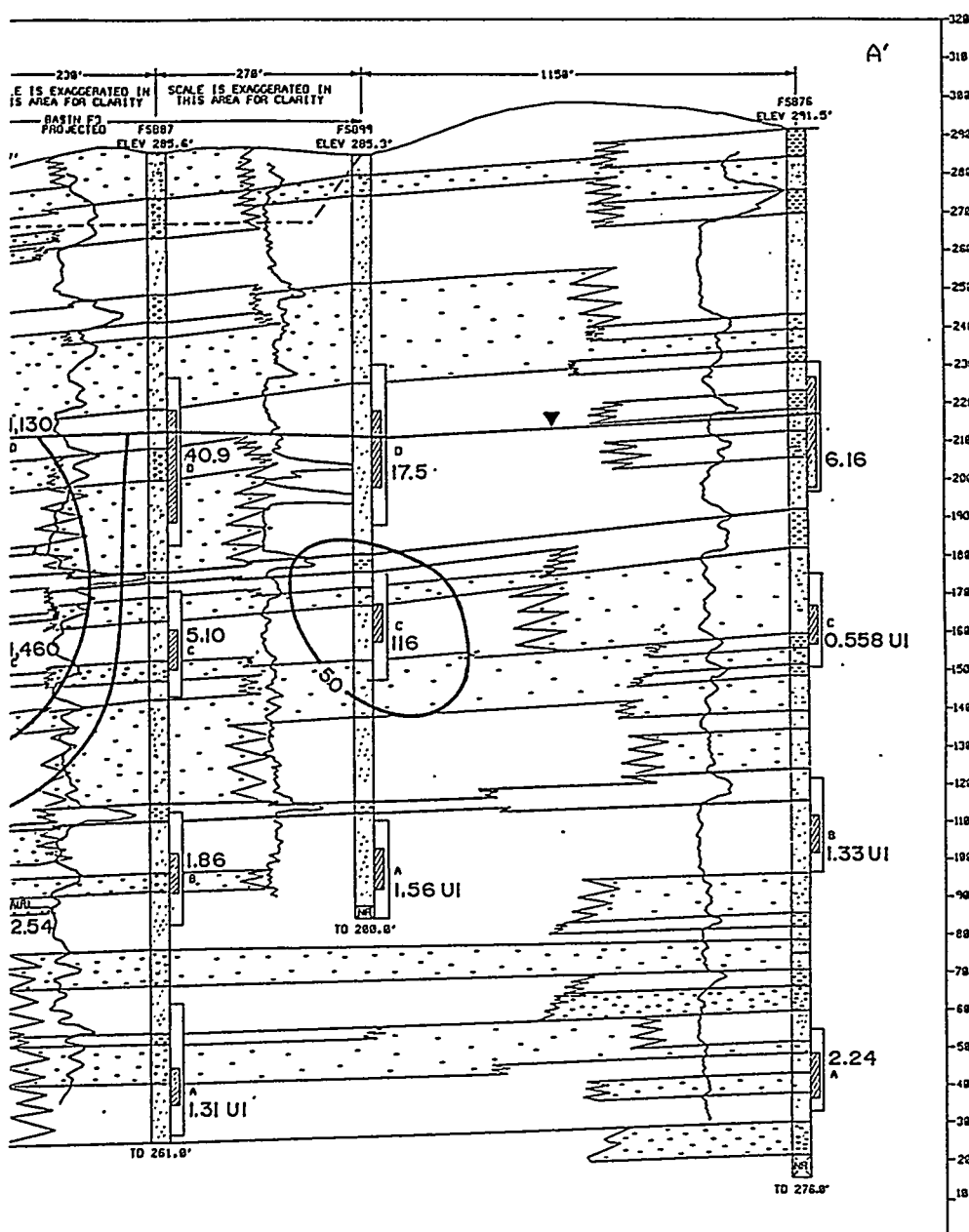
Figure 48. Hydrogeologic Cross Section Showing Nonvolatile Beta Activities at the F-Area Seepage Basins, Fourth Quarter 1994

Figure 49. Hydrogeologic Cross Section Showing Radium-226 Activities at the F-Area Seepage Basins, Third Quarter 1994

F AREA SEEPAGE BASINS HYDROSTR



STRATIGRAPHIC CROSS - SECTION A

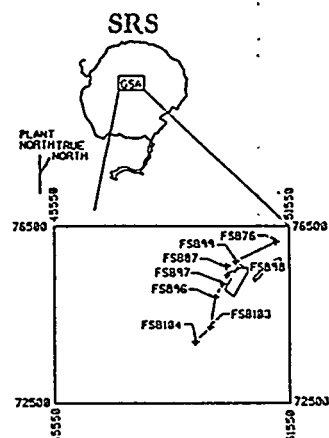


LEGEND:

- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY
- SAND PACK INTERVAL - INCLUDES BENTONITE SEAL SCREENED INTERVAL

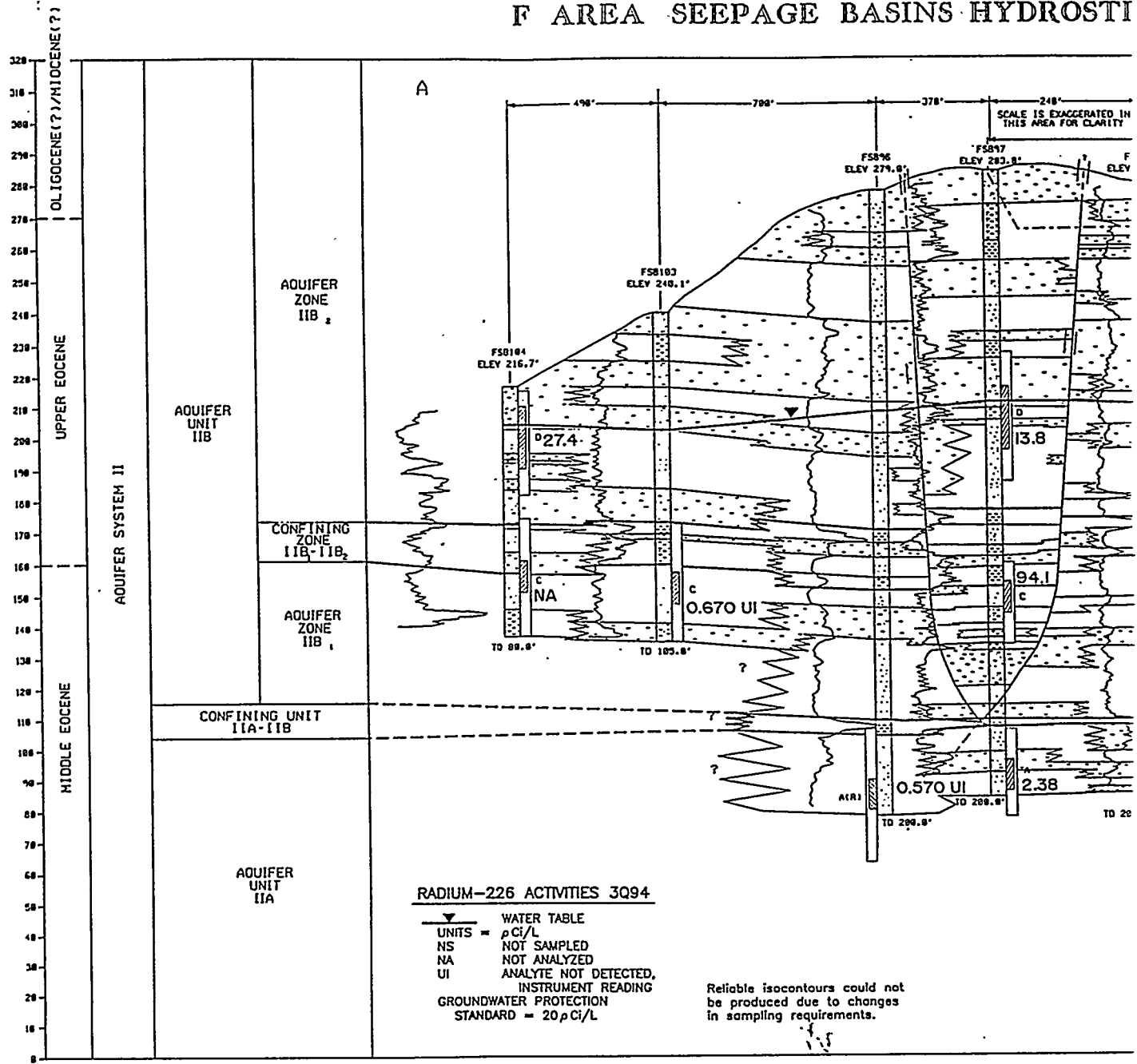
TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
--- DELINEATES CONFINING ZONE AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20

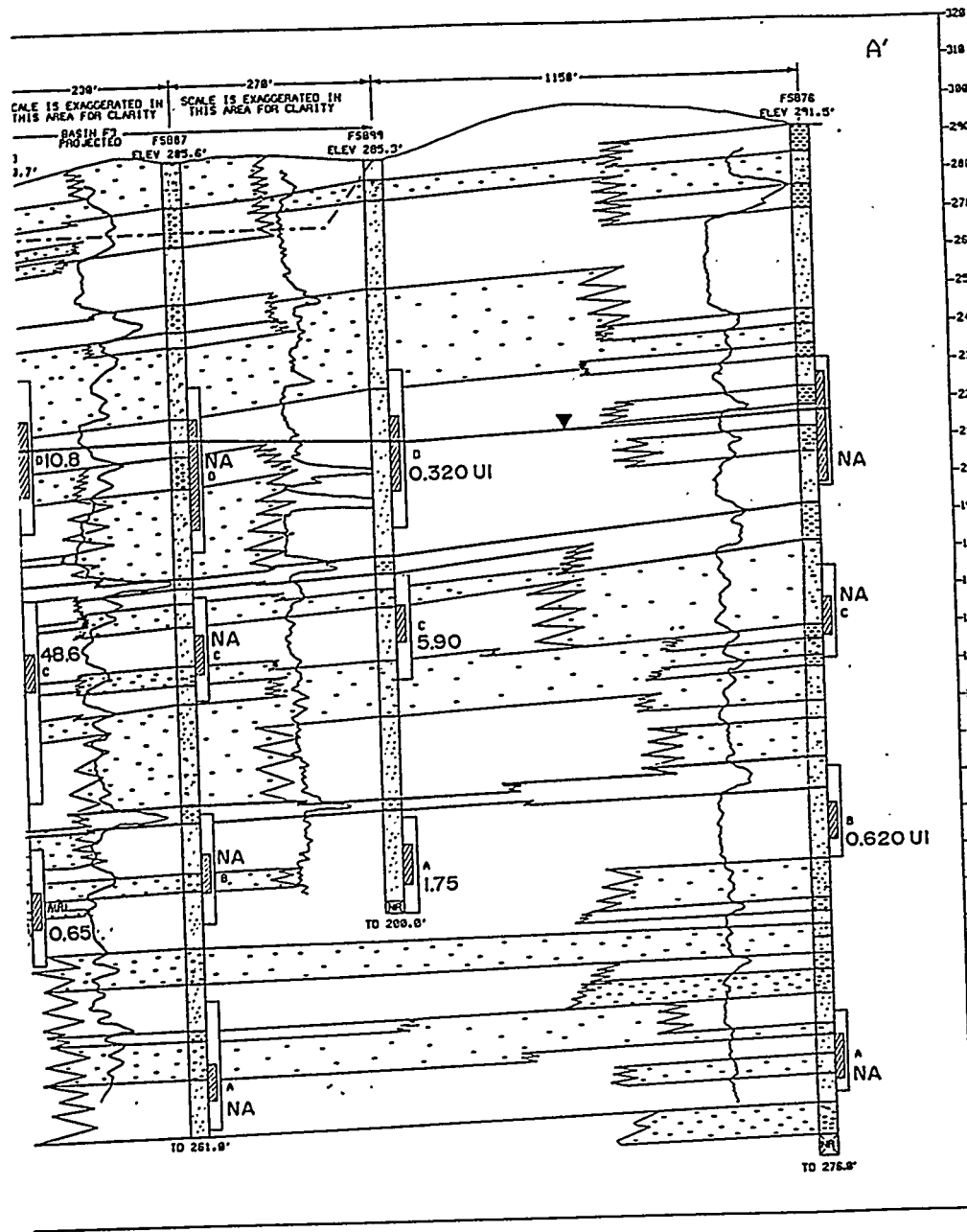


DRG NO.	SY002182	REV.	2	DATE	93	AREA	GSA
SAFETY & RESPONSIBILITY - SECURITY				ENVIRONMENTAL RESTORATION			
SRS				EARS			
SAVANNAH RIVER SITE				Protecting the Environment Today for a Cleaner Tomorrow			
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A							
NO.	DATE	BY	CHECKED BY	DATE	APPROVED BY	DATE	
1	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
2	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
3	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
4	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
5	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
6	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
7	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
8	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
9	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	
10	1-94	REVISED CROSS SECTION	REVISED BY	93	REVISED BY	93	

F AREA SEEPAGE BASINS HYDROST



ATIGRAPHIC CROSS - SECTION A



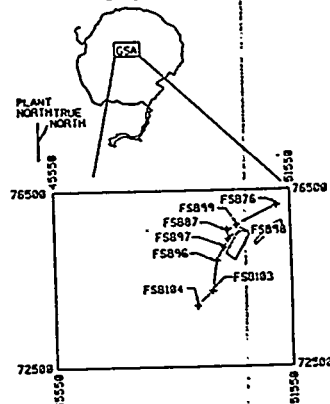
LEGEND:

	CALCAREOUS SAND
	CALCAREOUS MUD
	CLAYEY SAND
	SAND
	GRAVEL/PEBBLES
	SILT/CLAY
	SANDY LIMESTONE
	LIMESTONE
	SANDY MUDDY LIMESTONE
	MUDDY LIMESTONE
	SANDY CLAY
	SAND PACK INTERVAL-INCLUDES BENTONITE SEAL SCREENED INTERVAL

TO = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
----- = DELINEATES CONFINING ZONE
AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20

SRS



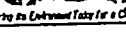
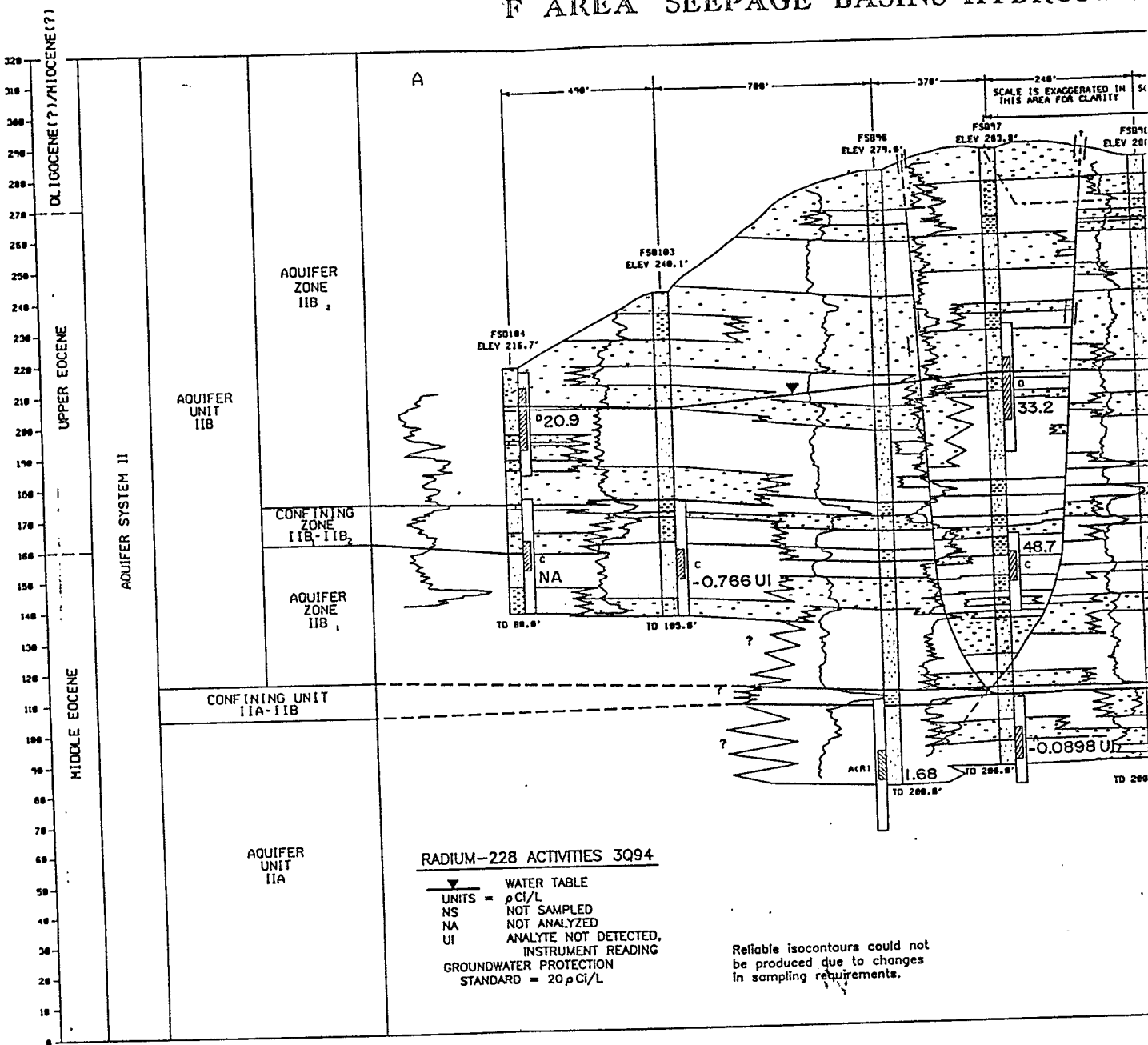
SPOT NO.	97002182	SECTION	2	SCALE	93	DATE	CSA
WHITE - MEMPHIS BLVD - SECURE		ENVIRONMENTAL RESTORATION					
							
SAYABANAH RIVER SITE		Protecting the Environment Today for a Cleaner Tomorrow					
DATE F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A							
NO.	DATE	BY	DATE	APPROVED BY	DATE	BY	DATE
1	93	ROD BOLT	93	C. M. LEWIS	93		
2	93	TRACY WOOLEY	93	F. F. GAUGHAN	93		
3	93	R. ANDLAND	93	T. M. WESTBROOK	93		
4	93	M. K. HARRIS	93	C. Y. THOMPSON	93		6-16-93

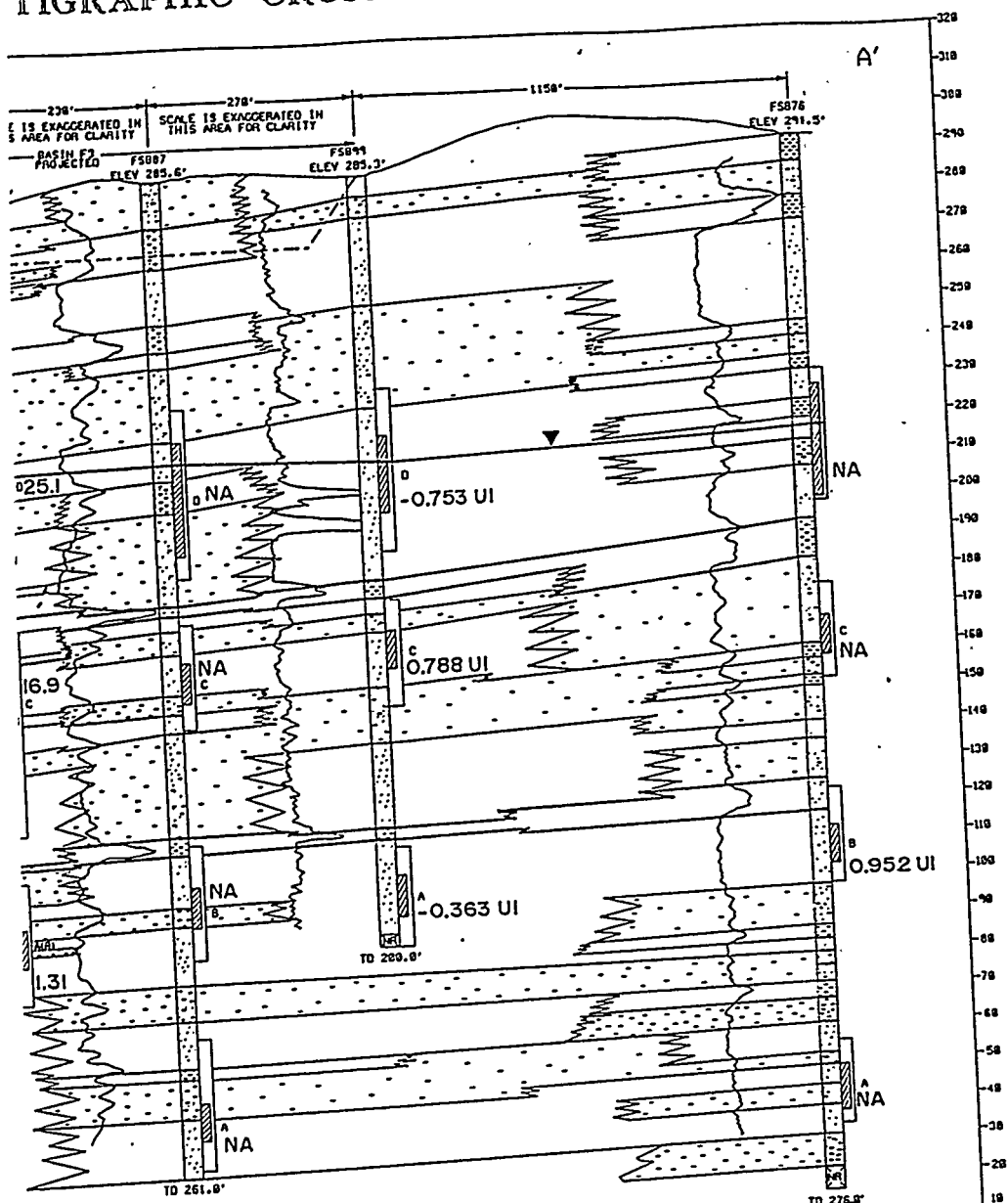
Figure 50. **Hydrogeologic Cross Section Showing Radium-228 Activities at the F-Area Seepage Basins, Third Quarter 1994**

Figure 51. **Hydrogeologic Cross Section Showing Tritium Activities at the F-Area Seepage Basins, Fourth Quarter 1994**

F AREA SEEPAGE BASINS HYDROSTR.



TIGRAPHIC CROSS - SECTION A

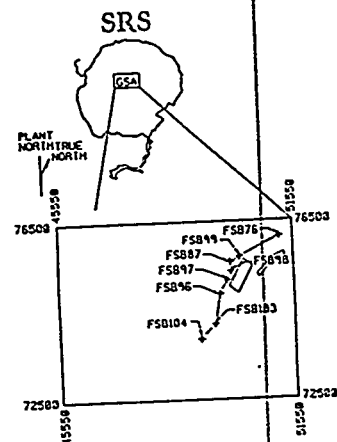


LEGEND:

- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY
- SAND PACK INTERVAL - INCLUDES BENTONITE SEAL AND SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
— DELINEATES CONFINING ZONE AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

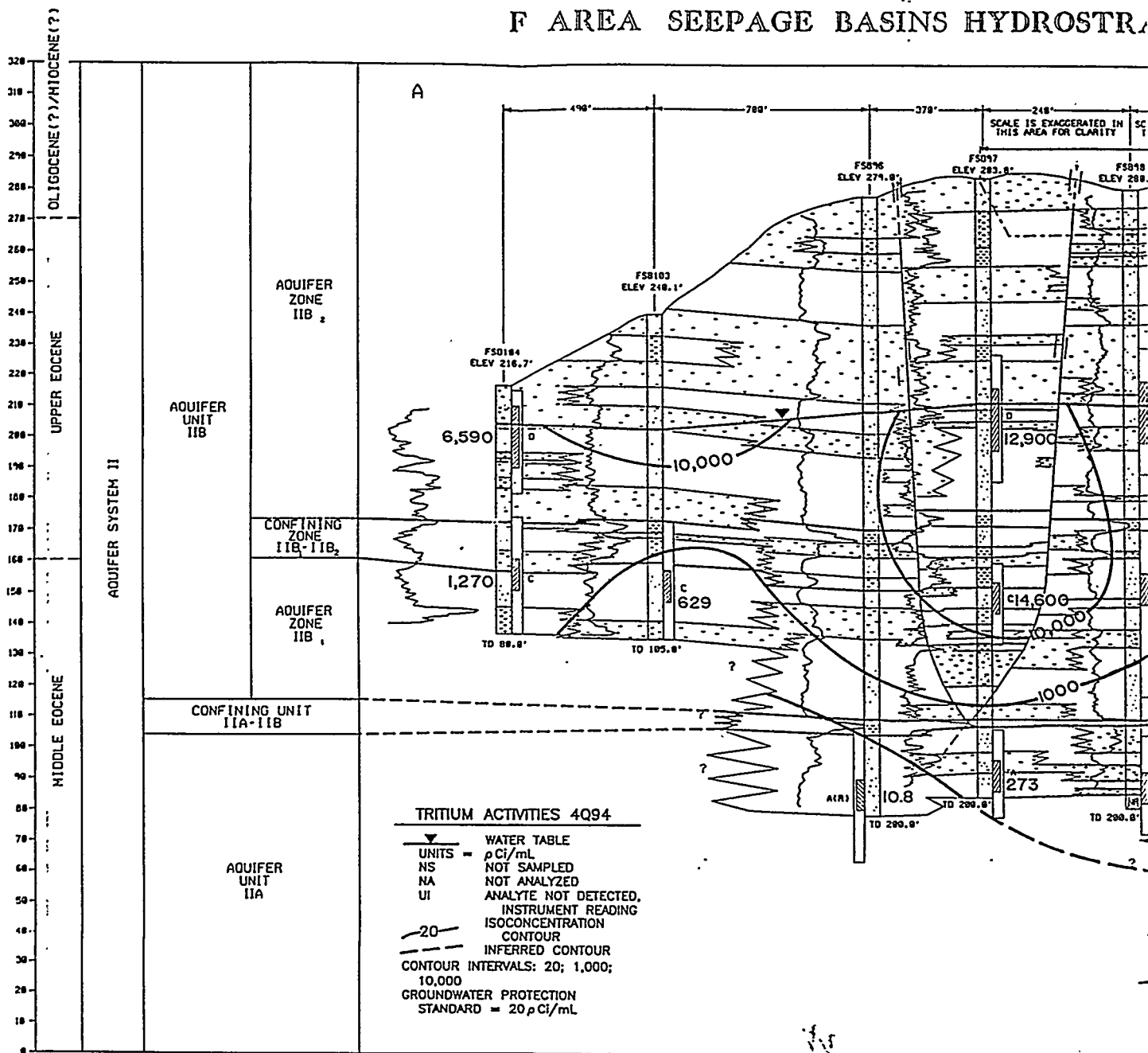
SCALE
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VERTICAL 0 5 10 15 20



PROJECT NO. SF0023R2	REV. NO. 2	REV. DATE 93	AREA GSA
SAFETY • REPORTABILITY • SECURITY		ENVIRONMENTAL RESTORATION	
SRS		SAVANNAH RIVER SITE	
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A			

NO.	DATE	BY	REVISION	DATE	BY	REVISION	DATE	BY	REVISION
1	1/93	REVISED CROSS SECTION		93	C. M. LEWIS		93		
2	1/93	REVISED CROSS SECTION		93	T. F. GAGHAN		93		
3	1/93	REVISED CROSS SECTION		93	T. M. WESTBROOK		93		
4	1/93	REVISED CROSS SECTION		93	C. T. THOMPSON		93		

F AREA SEEPAGE BASINS HYDROSTR.



Geological Cross-Section A-A'

Scale and Orientation:
 - Horizontal scale: 238' (left), 278' (middle), 1158' (right).
 - Vertical scale: 328' to 10' on the right side.
 - Section line: A-A'.

Borehole Data:

Borehole	Top Elevation	Bottom Elevation	Bottom Depth (TD)
FS887	285.6'	265.3'	261.8'
FS899	285.3'	265.3'	268.8'
FS876	291.5'	265.3'	275.3'

Geological Features and Measurements:

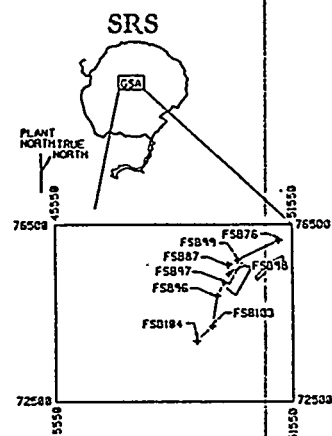
- FS887 Log (Left):**
 - 3,620 (Layer thickness)
 - 31.7 (Layer thickness)
 - 489 (Layer thickness)
 - 87.8 (Layer thickness)
 - 4.12 (Layer thickness)
- FS899 Log (Middle):**
 - 30.1 (Layer thickness)
 - 1,970 (Layer thickness)
 - 160 (Layer thickness)
- FS876 Log (Right):**
 - 403 (Layer thickness)
 - 3.06 (Layer thickness)
 - 0.397 UI (Layer thickness)
 - 0.116 UI (Layer thickness)
- Other Labels:**
 - 1000 (Layer thickness)
 - 20 (Layer thickness)
 - 1000 (Layer thickness)

Notes:
 - IS EXAGGERATED IN AREA FOR CLARITY (twice).
 - SCALE IS EXAGGERATED IN THIS AREA FOR CLARITY.

	CALCAREOUS SAND
	CALCAREOUS MUD
	CLAYEY SAND
	SAND
	GRAVEL/PEBBLES
	SILT/CLAY
	SANDY LIMESTONE
	LIMESTONE
	SANDY MUDDY LIMESTONE
	MUDDY LIMESTONE
	SAND CLAY
	SAND PACK INTERVAL-INCLUDES BENTONITE SEAL SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
——— = DELINEATES CONFINING ZONE
AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20



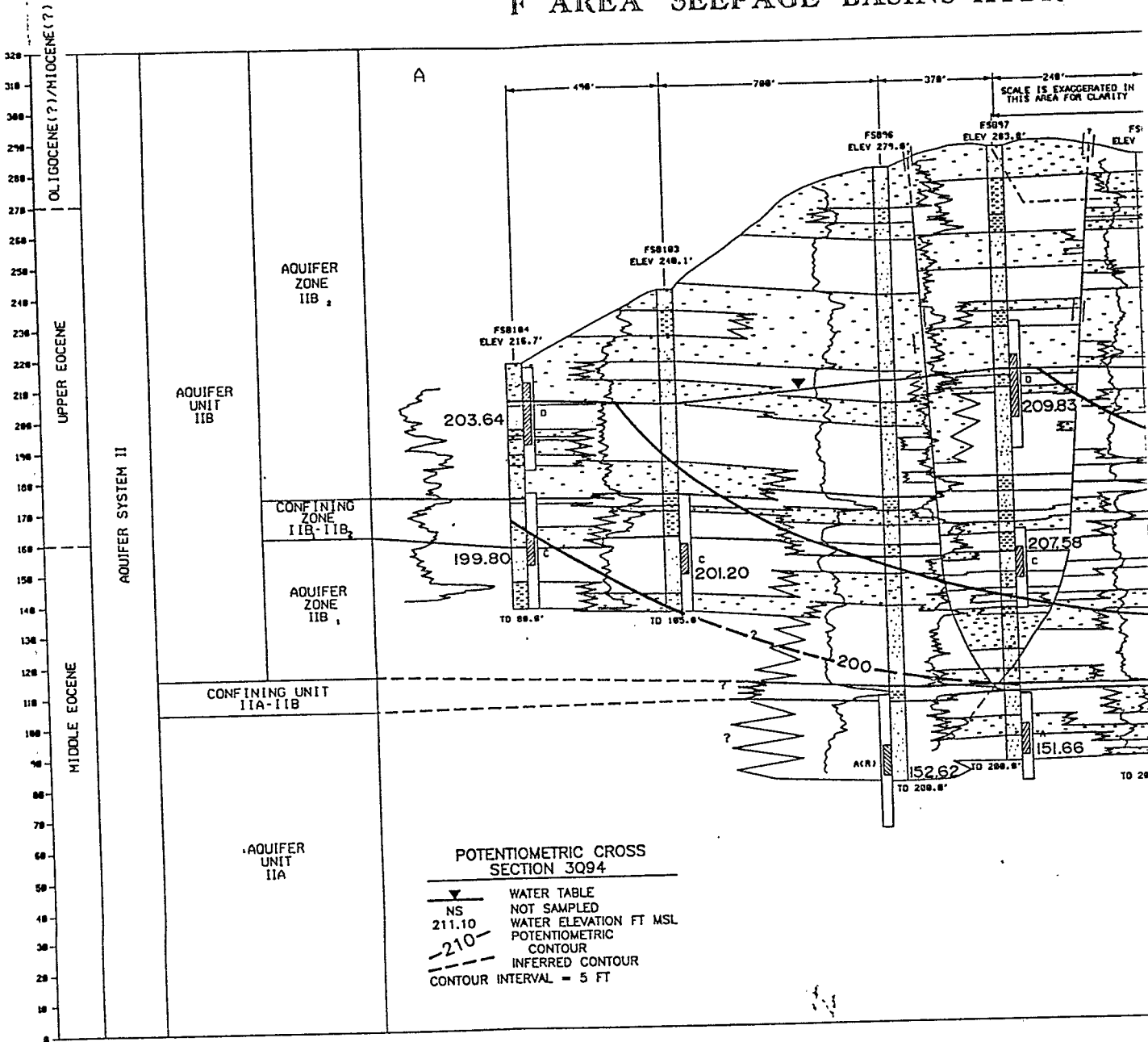
DISC NO.	9F00023R2	REV. NO.	2	REV. DATE	93	PLANT	OSA
MARY "POPOWUSLET" SECURE  SAVANNAH RIVER SITE		ENVIRONMENTAL RESTORATION  Preserving the Environment Today for a Cleaner Tomorrow					
TITLE F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A							
DATE	93	APPROVED BY	C. M. LEWIS	DATE	93		
REVIEWED BY	93	APPROVED BY	T. F. CAUGHAN	DATE	93		
APPROVED BY	93	APPROVED BY	T. M. WESTERBROOK	DATE	93		
APPROVED BY	93	APPROVED BY	C. K. THOMPSON	DATE	93		

CROSS SECTION A									
LINE	DATE	BY	CHK	BY	DATE	BY	CHK	BY	DATE
1	11/11	REVISED CROSS SECTION	PAUL R. RAY	CREATED BY	DATE	APPROVED BY	DATE		
1	11/11	REVISED CROSS SECTION	PAUL R. RAY	ROD BOLT	93	C.W. LEWIS	93		
2	11/11	REVISED CROSS SECTION	PAUL R. RAY	POWER BY	DATE	APPROVED BY	DATE		
2	11/11	REVISED CROSS SECTION	PAUL R. RAY	TRACY MCLEAY	93	T.F. GAUGHAN	93		
				APPROVED BY	DATE		DATE		
				R. ADKINS	93	T.W. WESTBROOK	93		
				APPROVED BY	DATE		DATE		
				M.K. HARRIS	93	C.X. JENKINSON	93	93	93

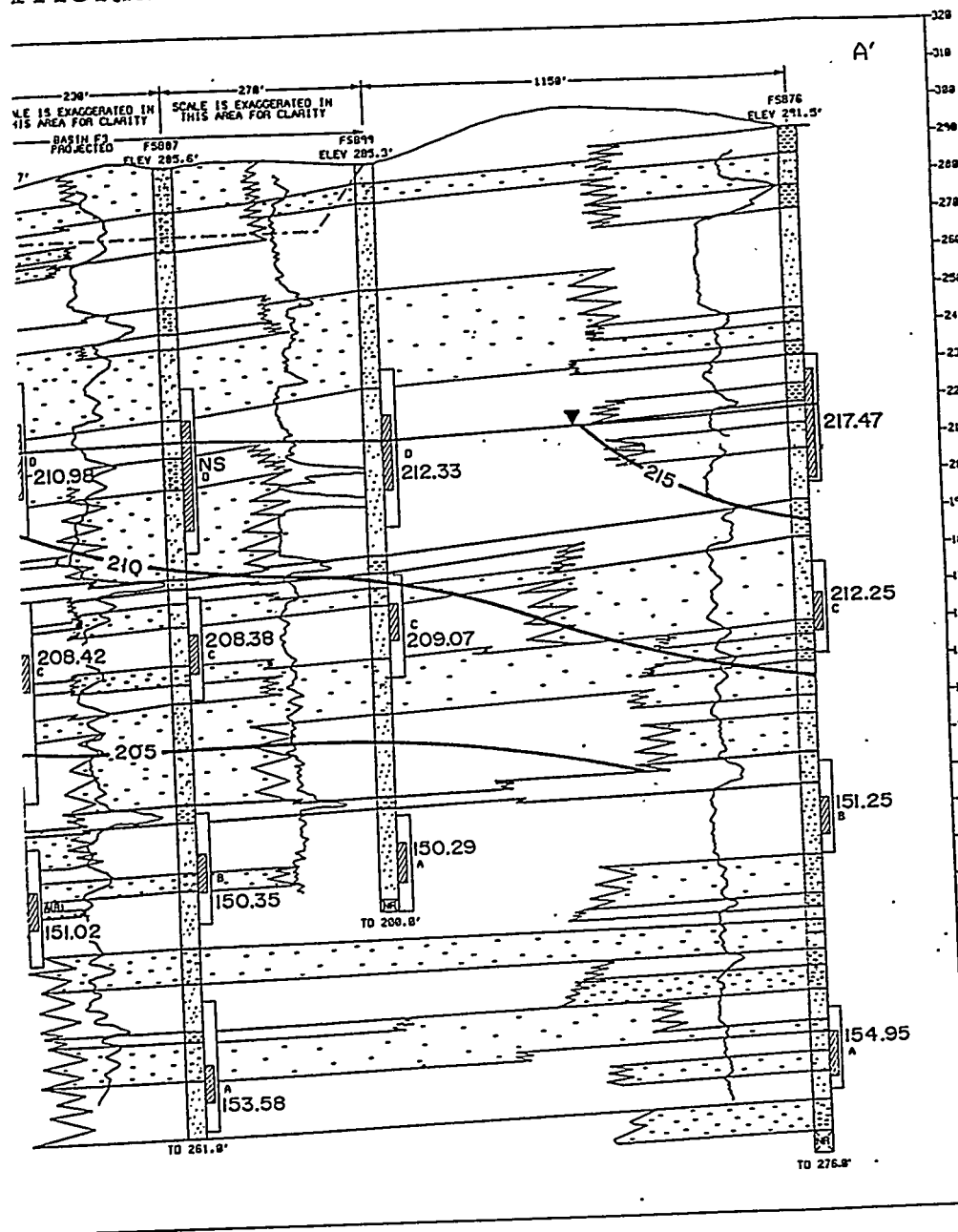
Figure 52. Hydrogeologic Cross Section Showing Equipotential Surfaces at the F-Area Seepage Basins, Third Quarter 1994

Figure 53. Hydrogeologic Cross Section Showing Equipotential Surfaces at the F-Area Seepage Basins, Fourth Quarter 1994

F AREA SEEPAGE BASINS HYDROSTR



HYDROSTRATIGRAPHIC CROSS - SECTION A

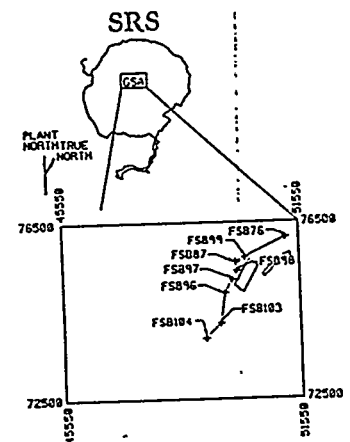


LEGEND:

- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY
- SAND PACK INTERVAL - INCLUDES BENTONITE SEAL - SCREENED INTERVAL

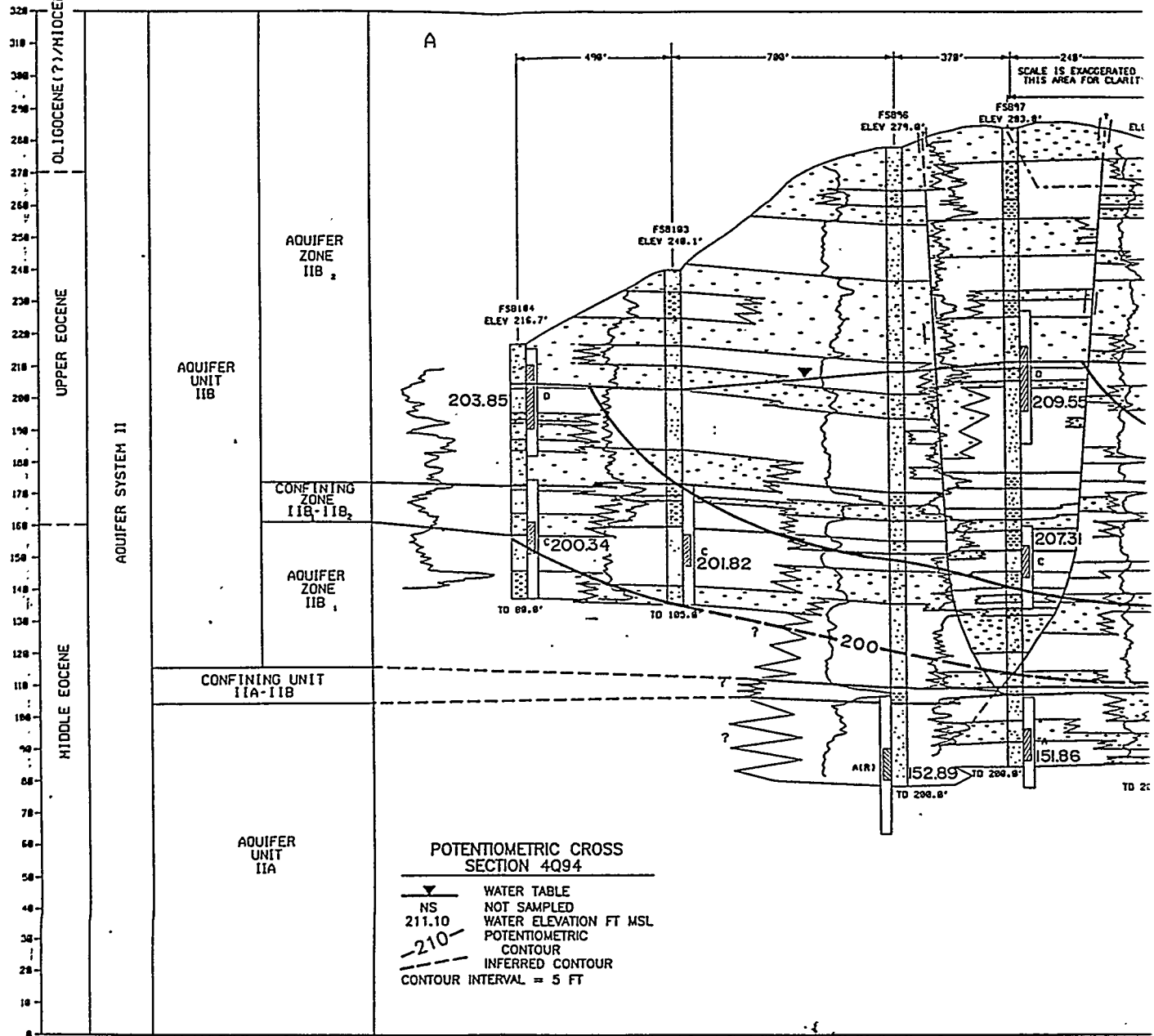
TD = TOTAL DEPTH
 CSA = GENERAL SEPARATIONS AREA
 NR = NO RECOVERY
 --- = DELINEATES CONFINING ZONE AND UNIT BOUNDARIES
 GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
 HORIZONTAL 1" = 100'
 VERTICAL 1" = 5'



PROJECT NO.	2	DATE	93	BY	CSA
SRS		ENVIRONMENTAL RESTORATION			
SAVANNAH RIVER SITE		Protecting the Environment Today for a Cleaner Tomorrow			
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A					
NO.	DATE	BY	DATE	BY	DATE
1	10/93	REVIEWED	10/93	C. M. LEWIS	93
2	11/93	REVIEWED	11/93	T. F. GAUGHAN	93
3	12/93	REVIEWED	12/93	T. W. WESTBROOK	93
4	1/94	REVIEWED	1/94	C. Y. THOMPSON	93

F AREA SEEPAGE BASINS HYDROST



Geological cross-section A-A' showing stratigraphic layers and elevation data. The section is oriented horizontally with a vertical scale on the right ranging from 16 to 328 feet. The horizontal scale at the top indicates distances of 238', 278', and 1158'.

Scale notes: SCALE IS EXAGGERATED IN THIS AREA FOR CLARITY (twice).

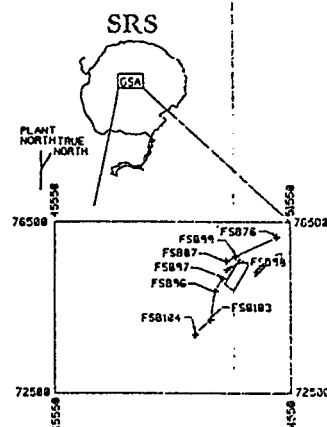
Key features and elevations:

- Topographic Profile:** A dashed line at the top represents the ground surface, with a peak elevation of 291.5' (FS876).
- Stratigraphic Columns:** Four vertical columns represent different borehole locations:
 - Column 1 (Left):** Elevations include 108.7' (top), 210.70', 208.08', 205', 151.25', and 153.75'.
 - Column 2:** Elevations include 208.07' and 150.54'.
 - Column 3:** Elevations include 285.3' (FS899), 211.84', 208.84', 150.48', and 154.96'.
 - Column 4 (Right):** Elevations include 217.13', 211.87', 151.38', and 154.96'.
- Geological Units:**
 - Unit A:** Indicated by a wavy line pattern, located at the bottom of the section.
 - Unit B:** Indicated by a dotted pattern, located above Unit A.
 - Unit C:** Indicated by a horizontal line pattern, located above Unit B.
 - Unit D:** Indicated by a vertical line pattern, located above Unit C.
 - Unit NS:** A specific layer within Unit D, labeled 'NS'.
- Other Labels:**
 - Basin F3 Projected:** Labeled on the left side.
 - TO 261.8' and TO 268.9':** Horizontal lines indicating specific elevations or depths.
 - 210, 215, 220:** Numerical labels within the stratigraphic columns.

	CALCAREOUS SAND
	CALCAREOUS MUD
	CLAYEY SAND
	SAND
	GRAVEL/PEBBLES
	SILT/CLAY
	SANDY LIMESTONE
	LIMESTONE
	SANDY MUDDY LIMESTONE
	MUDDY LIMESTONE
	SANDY CLAY
	SAND PACK INTERVAL-INCLUDES BENTONITE SEAL
	SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
----- = DELINEATES CONFINING ZONE
AND UNIT BOUNDARIES
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 100 200
VERTICAL 0 5 10 15 20



SP#0023R2	Rev. no. 2	Rev. date	date	CSA
SF00NSBLUT - SECUR SRS SAVANNAH RIVER SITE		ENVIRONMENTAL RESTORATION  <i>Protecting the Environment Today for a Cleaner Tomorrow</i>		
F AREA SEEPAGE BASINS HYDROSTRATIGRAPHIC CROSS SECTION A				
CREATED BY ROO BOLT APPROVED BY TRACY MCKLEY CHECKED BY R. ANDLAND APPROVED BY M. K. HARRIS	DATE 93 DATE 93 DATE 93 DATE 93 DATE 93	APPROVED BY C. W. LEWIS APPROVED BY T. F. GAUGHAN APPROVED BY T. M. WESTBROOK APPROVED BY C. Y. THOMPSON	DATE 93 DATE 93 DATE 93 DATE 6-16-93	

Appendix D

Groundwater Monitoring Results Tables

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Key to Reading the Tables

The following abbreviations may appear in the data tables:

Constituents

1,2,3,4,6,7,8-HPCDD	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
1,2,3,4,6,7,8-HPCDF	1,2,3,4,6,7,8-heptachlorodibenzo-p-furan
1,2,3,4,7,8-HXCDD	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
1,2,3,4,7,8-HXCDF	1,2,3,4,7,8-hexachlorodibenzo-p-furan
Lindane	gamma-benzene hexachloride
PCB	polychlorinated biphenyl
1,2,3,7,8-PCDD	1,2,3,7,8-pentachlorodibenzo-p-dioxin
1,2,3,7,8-PCDF	1,2,3,7,8-pentachlorodibenzo-p-furan
Sp. conductance	specific conductance
TCDD	tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzo-p-furan

Laboratories

CN	Clemson Technical Center, Inc.
EM	Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) Laboratory
GE and GP	General Engineering Laboratories
SC	Savannah River Technology Center
SP	Spencer Testing Services, Inc.
TM	TMA/Eberline
WA and WS	Roy F. Weston, Inc.

Sampling Codes

B	blank sample was collected
C	well was pumping continuously
D	well was dry
E	equipment blank was collected
I	well went dry during sampling; insufficient water to collect all samples
L	well went dry before sampling began; only depth to water can be determined
P	inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	no water in standpipe; for water-level events only
X	well went dry during purging; samples collected after well recovered

Sampling Methods

B	sample collected using an open-bucket bailer
P	sample collected using a bladder pump
S	sample collected using a single-speed centrifugal downhole pump
V	sample collected using a variable-speed pump

Units

E	exponential notation (e.g., $1.1E-09 = 1.1 \times 10^{-9} = 0.0000000011$)
mg/L	milligrams per liter
msl	mean sea level
MSL	million structures per liter
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
pCi/mL	picocuries per milliliter
pH	pH unit
$\mu\text{g/L}$	micrograms per liter
$\mu\text{S/cm}$	microsiemens per centimeter

Other

CS	carbon steel
DF	dilution factor column in data tables
H	holding time column in data tables
Mod	modifier column in data tables
PDWS	primary drinking water standard
PVC	polyvinyl chloride
ST	exceeded standard column in data tables
TOC	top of casing

Holding Times

Standard analytical methods include a limit, called holding time, on the maximum elapsed time between sample collection and extraction or analysis by the laboratory. In the data tables, a large bullet (•) in the *H* (holding time) column indicates that holding time was exceeded. Analyses performed beyond holding times may not yield valid results.

The South Carolina Department of Health and Environmental Control allows only 15 minutes to elapse between sampling and analysis for pH. Thus, only field pH measurements can meet the holding time criterion; laboratory pH analyses always will exceed it.

The laboratory procedure used for the determination of specific conductance allows one day to elapse between sampling and analysis. Thus, laboratory specific conductance measurements may exceed the holding time criterion.

Data Rounding

Constituent results in analytical results tables that appear to equal the final PDWS but are not marked in the *ST* (exceeded the final PDWS or screening level) column are below the final PDWS in the database. Values stored in the database contain more significant digits than the reported results. Apparent discrepancies in the tables are due to the rounding of reported results.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific quality assurance/quality control information either at the same time as analytical results or in a quarterly summary. Properly defined and used result modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Result modifiers designed by the EPD/EMS and provided to the primary laboratories are defined below. These modifiers appear in the data tables under the column *Mod*. The lettered modifiers are based on EPA's STORET codes.

Result Modifiers

(Blank)	Data are not qualified. Numbers should be interpreted exactly as reported.
I	The value in the result field is the instrument reading, not the sample quantification limit. Always used with the result qualifier <i>U</i> .
J	Value is estimated because quantitation in the sample or in associated quality control samples did not meet specifications.
L	Value is off-scale high. The actual value is not known but is known to be greater than the value shown.
M	Presence of the analyte is verified but not quantified.
R	Result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met.
T	Analyte was not detected; if present, it was below the criteria for detection.
U	Material analyzed for but not detected. Analytical result reported is less than the sample quantitation limit.
V	Analyte was detected in an associated method blank.
Y	Result was obtained from an unpreserved or improperly preserved sample. Data may not be accurate.
1	Result may be an underestimation of the true value due to analytical bias.
2	Result may be an overestimation of the true value due to analytical bias.
3	The associated result may be of poor precision (high variability) due to analytical bias.
4	Result is associated with QA results indicating matrix interference.
6	The associated result is from a reanalysis performed out of holding time due to problems with an earlier analysis.

Table 1. Maximum Levels of Constituents Exceeding the Groundwater Protection Standards

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 76	Aluminum	µg/L	320		NA ^a	
	Nitrate as nitrogen	µg/L	17,000	J	13,000	
	pH	pH	4.7	J3	4.7	J1
	Tritium	pCi/mL	6.9E+02	Y	4.0E+02	
FSB 77	Aluminum	µg/L	20,000		NA	
	Gross alpha	pCi/L	7.1E+02		9.7E+02	
	Nitrate as nitrogen	µg/L	47,000		56,000	
	Nonvolatile beta	pCi/L	8.8E+02		1.1E+03	
	pH	pH	3.6	J3	3.6	J1
	Tritium	pCi/mL	2.0E+03		2.7E+03	
FSB 78	Aluminum	µg/L	50,000		NA	
	Cadmium	µg/L	18		21	
	Gross alpha	pCi/L	7.8E+02	Y	1.9E+03	
	Nitrate as nitrogen	µg/L	170,000		140,000	
	Nonvolatile beta	pCi/L	2.6E+03	Y	3.1E+03	
	pH	pH	3.2	J3	3.3	J1
	Tritium	pCi/mL	9.8E+03	Y	7.9E+03	
FSB 79	Aluminum	µg/L	46,000	JY3	NA	
	Gross alpha	pCi/L	3.0E+02		1.3E+03	
	Nitrate as nitrogen	µg/L	98,000	J	220,000	
	Nonvolatile beta	pCi/L	5.4E+02		9.0E+02	
	pH	pH	3.6	JY3	3.5	J1
	Tritium	pCi/mL	7.8E+03		1.1E+04	
FSB 87D	Aluminum	µg/L	460	Y	NA	
	Gross alpha	pCi/L	8.9E+01		7.0E+01	
	Nonvolatile beta	pCi/L	6.0E+01		_b	
	pH	pH	4.6	JY3	4.6	J1
	Tritium	pCi/mL	4.6E+01		3.2E+01	
FSB 88D	Aluminum	µg/L	39,000	Y	NA	
	Americium-241	pCi/L	5.4E+01		NA	
	Curium-243/244	pCi/L	1.9E+02		NA	
	Dichloromethane	µg/L	9.6	Y	NA	
	Gross alpha	pCi/L	7.2E+02		9.5E+02	
	Iodine-129	pCi/L	1.9E+02		NA	
	Mercury	µg/L	18	Y	NA	
	Nitrate as nitrogen	µg/L	110,000	Y	99,000	
	Nonvolatile beta	pCi/L	1.5E+03		1.3E+03	
	pH	pH	3.8	JY3	3.9	J1
	Radium-228	pCi/L	2.1E+01		NA	
	Strontium-90	pCi/L	6.4E+02		NA	
	Tritium	pCi/mL	4.1E+03		3.0E+03	
	Uranium-233/234	pCi/L	3.0E+02		NA	
	Uranium-235	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	3.9E+02		NA	
	Zinc	µg/L	110	VY	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 89D	Aluminum	µg/L	17,000	Y	NA	
	Americium-241	pCi/L	1.6E+01		NA	
	Cadmium	µg/L	10	Y	22	
	Curium-243/244	pCi/L	1.0E+01		NA	
	Dichloromethane (Methylene chloride)	µg/L	6.1	Y	NA	
	Gross alpha	pCi/L	2.6E+02		4.5E+02	
	Iodine-129	pCi/L	5.1E+02		NA	
	Mercury	µg/L	2.2	Y	NA	
	Nitrate as nitrogen	µg/L	110,000	Y	190,000	
	Nonvolatile beta	pCi/L	1.7E+03		3.5E+03	
	pH	pH	4.2	JY3	4.0	J1
	Strontium-89	pCi/L	1.2E+02		NA	
	Strontium-90	pCi/L	9.4E+02		NA	
	Tritium	pCi/mL	4.0E+03		6.4E+03	
	Uranium-233/234	pCi/L	1.4E+02		NA	
	Uranium-238	pCi/L	1.7E+02		NA	
	Zinc	µg/L	44	VY	NA	
FSB 90D	Aluminum	µg/L	35,000	JY3	NA	
	Americium-241	pCi/L	2.1E+01		NA	
	Copper	µg/L	93	Y	NA	
	Curium-243/244	pCi/L	8.9E+00		NA	
	Gross alpha	pCi/L	5.0E+02		4.7E+02	
	Iodine-129	pCi/L	2.3E+02		NA	
	Lead	µg/L	80	Y	—	
	Mercury	µg/L	10	Y	NA	
	Nitrate as nitrogen	µg/L	110,000	Y	59,000	
	Nonvolatile beta	pCi/L	1.4E+03		7.1E+02	
	pH	pH	3.2	JY3	4.2	J1
	Radium-228	pCi/L	3.4E+01		NA	
	Strontium-90	pCi/L	5.7E+02		NA	
	Tritium	pCi/mL	8.1E+03		3.0E+03	
	Uranium-233/234	pCi/L	3.7E+02		NA	
	Uranium-235	pCi/L	2.2E+01		NA	
	Uranium-238	pCi/L	4.2E+02		NA	
	Zinc	µg/L	110	Y	NA	
FSB 91D	Aluminum	µg/L	10,000	Y	NA	
	Gross alpha	pCi/L	2.0E+02	Y	2.0E+02	
	Iodine-129	pCi/L	3.0E+01		NA	
	Nitrate as nitrogen	µg/L	19,000	Y	22,000	
	Nonvolatile beta	pCi/L	1.5E+02	Y	1.8E+02	
	pH	pH	3.8	JY3	3.7	J1
	Strontium-90	pCi/L	3.3E+01		NA	
	Tritium	pCi/mL	3.5E+02	Y	1.3E+03	
	Uranium-233/234	pCi/L	9.2E+01		NA	
	Uranium-238	pCi/L	1.4E+02		NA	
FSB 92D	Aluminum	µg/L	55,000	JY3	NA	
	Americium-241	pCi/L	8.2E+00		NA	
	Cadmium	µg/L	19	Y	16	
	Curium-243/244	pCi/L	9.3E+00		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Gross alpha	pCi/L	2.9E+02		6.2E+02	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nitrate as nitrogen	µg/L	140,000	Y	150,000	
	Nonvolatile beta	pCi/L	1.4E+03		1.7E+03	
	pH	pH	3.5	JY3	3.5	J1
	Radium-226	pCi/L	6.9E+01		NA	
	Radium-228	pCi/L	3.5E+01		NA	
	Strontium-90	pCi/L	6.1E+02		NA	
	Tritium	pCi/mL	9.7E+03		9.9E+03	
	Uranium-233/234	pCi/L	1.6E+02		NA	
	Uranium-238	pCi/L	2.1E+02		NA	
	Zinc	µg/L	96	VY	NA	
FSB 93D	Aluminum	µg/L	35,000	Y	NA	
	Americium-241	pCi/L	6.9E+00		NA	
	Cadmium	µg/L	16	Y	13	
	Gross alpha	pCi/L	1.5E+02		2.7E+02	
	Iodine-129	pCi/L	1.2E+02		NA	
	Nitrate as nitrogen	µg/L	110,000	Y	120,000	
	Nonvolatile beta	pCi/L	2.5E+03		1.7E+03	
	pH	pH	3.2	JY3	3.7	J1
	Radium-228	pCi/L	2.3E+01		NA	
	Strontium-89	pCi/L	4.7E+02		NA	
	Strontium-90	pCi/L	9.5E+02		NA	
	Tritium	pCi/mL	1.1E+04		1.1E+04	
	Uranium-233/234	pCi/L	5.1E+01		NA	
	Uranium-238	pCi/L	7.9E+01		NA	
	Zinc	µg/L	64	Y	NA	
FSB 94DR	Aluminum	µg/L	81,000	JY3	NA	
	Americium-241	pCi/L	1.1E+02		NA	
	Cesium-137	pCi/L	3.1E+02		NA	
	Copper	µg/L	96	Y	NA	
	Curium-243/244	pCi/L	2.0E+02		NA	
	Gross alpha	pCi/L	1.3E+03		1.1E+04	
	Iodine-129	pCi/L	1.6E+02		NA	
	Nitrate as nitrogen	µg/L	170,000	Y	1,700,000	
	Nonvolatile beta	pCi/L	2.1E+03		2.3E+03	
	pH	pH	3.2	JY3	3.1	J1
	Radium-228	pCi/L	5.6E+01		NA	
	Strontium-90	pCi/L	4.0E+02		NA	
	Thorium-234	pCi/L	4.4E+02	J	NA	
	Tritium	pCi/mL	1.3E+04		1.9E+04	J1
	Uranium-233/234	pCi/L	6.0E+02		NA	
	Uranium-235	pCi/L	2.7E+01		NA	
	Uranium-238	pCi/L	1.1E+03		NA	
	Zinc	µg/L	140	JY3	NA	
FSB 95DR	Aluminum	µg/L	70,000	Y	NA	
	Americium-241	pCi/L	1.2E+02		NA	
	Cesium-137	pCi/L	5.1E+02		NA	
	Copper	µg/L	67	Y	NA	
	Curium-243/244	pCi/L	1.0E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 97D	Gross alpha	pCi/L	1.4E+03		2.4E+03	
	Iodine-129	pCi/L	2.1E+02		NA	
	Nitrate as nitrogen	µg/L	260,000	J	2,300,000	
	Nonvolatile beta	pCi/L	1.5E+03		1.8E+03	
	pH	pH	3.2	JY3	3.2	J1
	Radium-228	pCi/L	4.6E+01		NA	
	Strontium-90	pCi/L	1.8E+02		NA	
	Thorium-234	pCi/L	4.6E+02	J	NA	
	Tritium	pCi/mL	1.5E+04		1.1E+04	JV2
	Uranium-233/234	pCi/L	5.6E+02		NA	
	Uranium-235	pCi/L	3.7E+01		NA	
	Uranium-238	pCi/L	1.6E+03		NA	
	Zinc	µg/L	97	Y	NA	
	Aluminum	µg/L	80,000	Y	NA	
FSB 98D	Americium-241	pCi/L	6.5E+01		NA	
	Barium	µg/L	1,400	Y	NA	
	Cobalt	µg/L	150	Y	NA	
	Copper	µg/L	110	Y	NA	
	Curium-243/244	pCi/L	6.1E+01		NA	
	Gross alpha	pCi/L	5.8E+02		2.9E+03	
	Iodine-129	pCi/L	1.0E+02		NA	
	Lead	µg/L	59	Y	99	
	Nickel	µg/L	76	Y	NA	
	Nitrate as nitrogen	µg/L	280,000	Y	2,400,000	
	Nonvolatile beta	pCi/L	1.7E+03		2.5E+03	
	pH	pH	3.9	JY3	3.8	J1
	Radium-228	pCi/L	3.3E+01		NA	
	Strontium-89	pCi/L	2.3E+02		NA	
	Strontium-90	pCi/L	3.8E+02		NA	
	Tritium	pCi/mL	1.6E+04		1.3E+04	JV2
	Uranium-233/234	pCi/L	3.9E+02		NA	
	Uranium-235	pCi/L	2.1E+01		NA	
	Uranium-238	pCi/L	9.4E+02		NA	
	Zinc	µg/L	190	Y	NA	
FSB 98D	Aluminum	µg/L	15,000	Y	NA	
	Americium-241	pCi/L	2.6E+01		NA	
	Cadmium	µg/L	14	Y	—	
	Curium-243/244	pCi/L	2.6E+01		NA	
	Gross alpha	pCi/L	2.9E+02		6.5E+02	
	Iodine-129	pCi/L	4.5E+01		NA	
	Nitrate as nitrogen	µg/L	91,000	Y	470,000	
	Nonvolatile beta	pCi/L	1.1E+03		1.1E+03	
	pH	pH	3.7	JY3	3.5	J1
	Radium-228	pCi/L	2.5E+01		NA	
	Strontium-90	pCi/L	5.0E+02		NA	
	Thorium-234	pCi/L	4.7E+02	J	NA	
	Tritium	pCi/mL	5.3E+03		3.6E+03	JV2
	Uranium-233/234	pCi/L	3.9E+02		NA	
	Uranium-235	pCi/L	2.5E+01		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Uranium-238	pCi/L	9.5E+02		NA	
	Zinc	µg/L	47	Y	NA	
FSB 99D	Aluminum	µg/L	160	Y	NA	
	Gross alpha	pCi/L	1.8E+01		—	
	pH	pH	4.8	JY3	4.6	J1
	Tritium	pCi/mL	2.8E+01		3.0E+01	
FSB104D	Aluminum	µg/L	47,000	Y	NA	
	Americium-241	pCi/L	1.5E+01		NA	
	Curium-243/244	pCi/L	1.2E+01		NA	
	Gross alpha	pCi/L	4.2E+02		7.6E+02	
	Iodine-129	pCi/L	6.2E+01		NA	
	Nitrate as nitrogen	µg/L	100,000	Y	1,000,000	
	Nonvolatile beta	pCi/L	1.1E+03		1.2E+03	
	pH	pH	3.6	JY3	3.6	J1
	Radium-226	pCi/L	2.7E+01		NA	
	Radium-228	pCi/L	2.1E+01		NA	
	Strontium-90	pCi/L	8.1E+02		NA	
	Tritium	pCi/mL	6.9E+03		6.6E+03	JV2
	Uranium-235	pCi/L	2.0E+01		NA	
	Uranium-238	pCi/L	4.5E+02		NA	
	Zinc	µg/L	57	Y	NA	
FSB105DR	Aluminum	µg/L	16,000	Y	NA	
	Gross alpha	pCi/L	3.4E+02		5.0E+02	
	Nitrate as nitrogen	µg/L	43,000	Y	32,000	
	Nonvolatile beta	pCi/L	8.2E+02		6.9E+02	
	pH	pH	3.5	JY3	3.6	J1
	Tritium	pCi/mL	1.0E+03		6.3E+02	
FSB106D	Aluminum	µg/L	190	Y	NA	
	Lead	µg/L	—		63	
	pH	pH	NA		6.6	J1
	Zinc	µg/L	640	VY	NA	
FSB107D	Aluminum	µg/L	23,000	Y	NA	
	Americium-241	pCi/L	3.8E+01		NA	
	Curium-243/244	pCi/L	2.2E+01		NA	
	Gross alpha	pCi/L	1.1E+03		3.2E+03	
	Iodine-129	pCi/L	3.1E+02		NA	
	Mercury	µg/L	6.7	Y	NA	
	Nitrate as nitrogen	µg/L	91,000	Y	700,000	
	Nonvolatile beta	pCi/L	1.6E+03		1.8E+03	
	pH	pH	3.7	JY3	3.6	J1
	Radium-226	pCi/L	3.1E+01		NA	
	Radium-228	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	4.5E+02		NA	
	Tritium	pCi/mL	3.5E+03		2.4E+03	JV2
	Uranium-233/234	pCi/L	4.7E+02	JV2	NA	
	Uranium-235	pCi/L	2.2E+01		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB108D	Uranium-238	pCi/L	6.1E+02	JV2	NA	
	Zinc	µg/L	53	Y	NA	
	Aluminum	µg/L	110	JV2	72	JV2
	pH	pH	5.9	JY3	6.0	J1
FSB109D	Zinc	µg/L	84	JV2	36	JV2
	Aluminum	µg/L	130	Y	220	JV2
	pH	pH	5.9	JY3	6.2	J1
	Tritium	pCi/mL	2.1E+01		2.1E+01	
FSB110D	Zinc	µg/L	130	Y	210	JV2
	Aluminum	µg/L	80,000	Y	NA	
	Americium-241	pCi/L	8.1E+01		NA	
	Copper	µg/L	75	Y	NA	
FSB111D	Curium-243/244	pCi/L	1.4E+02		NA	
	Gross alpha	pCi/L	9.5E+02		8.1E+02	
	Iodine-129	pCi/L	3.3E+02		NA	
	Mercury	µg/L	5.2	Y	NA	
FSB112D	Nitrate as nitrogen	µg/L	330,000	Y	310,000	
	Nonvolatile beta	pCi/L	2.9E+03		1.0E+03	
	pH	pH	3.0	JY3	3.2	J1
	Radium-228	pCi/L	3.0E+01		NA	
FSB113D	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	8.7E+02		NA	
	Tritium	pCi/mL	2.2E+04	Y	2.1E+04	
	Uranium-233/234	pCi/L	3.2E+02		NA	
FSB114D	Uranium-235	pCi/L	2.0E+01		NA	
	Uranium-238	pCi/L	1.2E+03		NA	
	Zinc	µg/L	150	Y	NA	
	Cyanide	µg/L	6.6	Y	NA	
FSB115D	pH	pH	5.2	JY3	5.2	J1
	Zinc	µg/L	51	Y	NA	
FSB116D	Aluminum	µg/L	69,000	Y	NA	
	Cadmium	µg/L	22	Y	23	
	Cobalt	µg/L	140	Y	NA	
	Copper	µg/L	100	Y	NA	
FSB117D	Cyanide	µg/L	5.4	Y	NA	
	Gross alpha	pCi/L	1.9E+02		2.6E+02	
	Iodine-129	pCi/L	1.3E+02		NA	
	Nickel	µg/L	76	Y	NA	
FSB118D	Nitrate as nitrogen	µg/L	180,000	Y	170,000	
	Nonvolatile beta	pCi/L	3.4E+03		3.0E+03	
	pH	pH	3.7	JY3	3.7	J1
	Radium-226	pCi/L	1.3E+02		NA	
FSB119D	Radium-228	pCi/L	5.5E+01		NA	
	Strontium-89	pCi/L	1.5E+02		NA	
	Strontium-90	pCi/L	1.2E+03		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Tritium	pCi/mL	1.2E+04		1.0E+04	
	Zinc	µg/L	160	Y	NA	
FSB113D	pH	pH	5.0	JY3	5.1	J1
FSB114D	Aluminum	µg/L	53		NA	
	pH	pH	5.3	J3	5.1	J1
FSB115D	Aluminum	µg/L	640	Y	NA	
	pH	pH	5.3	JY3	5.3	J1
FSB116D	Aluminum	µg/L	580	Y	NA	
	pH	pH	5.0	JY3	5.2	J1
FSB117D	Aluminum	µg/L	23,000	Y	NA	
	Gross alpha	pCi/L	1.2E+03		1.1E+03	
	Nitrate as nitrogen	µg/L	62,000	JY3	68,000	
	Nonvolatile beta	pCi/L	8.6E+02		8.1E+02	
	pH	pH	3.7	JY3	3.7	J1
	Tritium	pCi/mL	2.5E+03		2.4E+03	
FSB118D	pH	pH	5.0	JY3	5.2	J1
	Zinc	µg/L	53	Y	NA	
FSB119D	Aluminum	µg/L	41,000	Y	NA	
	Gross alpha	pCi/L	1.2E+03		1.8E+03	
	Nitrate as nitrogen	µg/L	110,000	Y	150,000	
	Nonvolatile beta	pCi/L	1.4E+03		1.4E+03	
	pH	pH	3.4	JY3	3.5	J1
	Tritium	pCi/mL	6.5E+03	Y	8.0E+03	
FSB120D	pH	pH	6.4	JY3	6.8	J1
	Zinc	µg/L	54	VY	NA	
FSB121DR	Aluminum	µg/L	3,800	Y	NA	
	Gross alpha	pCi/L	—		2.5E+01	
	Nitrate as nitrogen	µg/L	11,000	Y	—	
	Nonvolatile beta	pCi/L	4.2E+02		1.1E+02	
	pH	pH	4.4	JY3	4.8	J1
	Tritium	pCi/mL	1.1E+02		6.1E+01	
FSB122D	Aluminum	µg/L	120	Y	NA	
	Iodine-129	pCi/L	2.1E+00	J3	NA	
	Nitrate as nitrogen	µg/L	—		15,000	
	pH	pH	5.6	JY3	5.0	J1
	Tritium	pCi/mL	5.8E+02	-	8.3E+02	
FSB123D	Aluminum	µg/L	56	Y	NA	
	pH	pH	5.0	JY3	5.0	J1

Aquifer Zone IIB₂ (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
FSL 1D	Aluminum	µg/L	500	Y	NA	
	pH	pH	5.1	JY3	5.0	J1
	Trichloroethylene	µg/L	5.0	Y	—	
	Trichlorofluoromethane	µg/L	14	Y	26	
	Tritium	pCi/mL	2.0E+02	Y	9.4E+01	
	Zinc	µg/L	21	Y	23	
FSL 2D	Aluminum	µg/L	700	VY	NA	
	Lead	µg/L	—	Y	110	
	pH	pH	6.7	JY3	6.1	J1
	Zinc	µg/L	38	Y	—	
FSL 3D	Lead	µg/L	—	Y	1,200	
	Trichlorofluoromethane	µg/L	19	Y	15	
	Tritium	pCi/mL	6.8E+01	Y	5.4E+01	
	Zinc	µg/L	25	Y	—	
FSL 4D	Aluminum	µg/L	540	VY	NA	
	pH	pH	5.8	JY3	NA	
	Zinc	µg/L	120	Y	NA	
FSL 5D	Nitrate as nitrogen	µg/L	37,000	J	49,000	
	Nonvolatile beta	pCi/L	4.6E+02	Y	3.2E+02	
	pH	pH	5.8	JY3	5.7	J1
	Tritium	pCi/mL	1.1E+03	Y	1.2E+03	
	Zinc	µg/L	20	Y	—	
FSL 6D	Aluminum	µg/L	210	Y	NA	
	Nitrate as nitrogen	µg/L	41,000	J	23,000	
	pH	pH	5.0	JY3	5.1	J1
	Trichloroethylene	µg/L	—	JY3	7.7	
	Trichlorofluoromethane	µg/L	—	JY3	5.6	
	Tritium	pCi/mL	1.8E+03	Y	8.3E+02	
	Zinc	µg/L	27	Y	—	
FSL 7D	Aluminum	µg/L	1,900	Y	NA	
	Gross alpha	pCi/L	5.0E+01	Y	3.9E+01	
	Nitrate as nitrogen	µg/L	84,000	J	88,000	Y
	Nonvolatile beta	pCi/L	1.5E+02	Y	7.6E+01	
	pH	pH	4.5	JY3	5.6	JY1
	Tritium	pCi/mL	2.5E+03	Y	2.1E+03	
FSL 8D	pH	pH	5.4	JY3	5.3	J1
	Tritium	pCi/mL	3.0E+01		2.2E+01	
FSL 9D	Aluminum	µg/L	3,800	Y	NA	
	Gross alpha	pCi/L	7.6E+01		8.4E+01	
	Mercury	µg/L	2.6	Y	—	
	Nitrate as nitrogen	µg/L	18,000	Y	11,000	
	Nonvolatile beta	pCi/L	3.3E+02		3.0E+02	
	pH	pH	4.3	JY3	4.8	J1
	Trichlorofluoromethane	µg/L	7.0	Y	6.6	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Tritium	pCi/mL	9.6E+02		4.6E+02	
	Zinc	µg/L	55	Y	32	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 76C	pH	pH	6.1	JY3	6.0	J1
FSB 78C	Aluminum	µg/L	16,000	JY3	NA	
	Cadmium	µg/L	17	Y	—	
	Cobalt	µg/L	290	Y	NA	
	Gross alpha	pCi/L	7.6E+01		2.2E+02	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nickel	µg/L	120	Y	NA	
	Nitrate as nitrogen	µg/L	250,000	Y	240,000	
	Nonvolatile beta	pCi/L	9.0E+02		1.5E+03	
	pH	pH	4.7	JY3	4.1	J1
	Radium-226	pCi/L	3.9E+01		NA	
	Strontium-90	pCi/L	5.1E+02		NA	
	Tritium	pCi/mL	8.9E+03		8.8E+03	
	Uranium-233/234	pCi/L	5.4E+01		NA	
	Uranium-238	pCi/L	6.0E+01		NA	
	Zinc	µg/L	560	VY	NA	
FSB 79C	Aluminum	µg/L	38,000	Y	NA	
	Americium-241	pCi/L	2.1E+01		NA	
	Cadmium	µg/L	27	Y	18	
	Cobalt	µg/L	130	Y	NA	
	Copper	µg/L	89	Y	NA	
	Curium-243/244	pCi/L	2.0E+01		NA	
	Gross alpha	pCi/L	3.1E+02		6.3E+02	
	Iodine-129	pCi/L	6.9E+01		NA	
	Nitrate as nitrogen	µg/L	110,000	J	130,000	
	Nonvolatile beta	pCi/L	2.3E+03		2.4E+03	
	pH	pH	3.7	JY3	3.7	J1
	Radium-226	pCi/L	4.2E+01		NA	
	Strontium-89	pCi/L	1.6E+02		NA	
	Strontium-90	pCi/L	6.8E+02		NA	
	Tritium	pCi/mL	8.8E+03		7.9E+03	
	Uranium-233/234	pCi/L	2.1E+02		NA	
	Uranium-238	pCi/L	2.2E+02		NA	
	Zinc	µg/L	120	Y	NA	
FSB 87C	Nitrate as nitrogen	µg/L	71,000	Y	—	
	pH	pH	4.1	JY3	5.9	J1
	Tritium	pCi/mL	5.6E+02		4.9E+02	
FSB 88C	pH	pH	5.7	JY3	5.7	J1
	Tritium	pCi/mL	2.5E+01		2.1E+01	
	Zinc	µg/L	26		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 89C	Aluminum	µg/L	55		NA	
	Iodine-129	pCi/L	4.5E+00		NA	
	pH	pH	6.0	J3	6.0	J1
FSB 90C	Aluminum	µg/L	140	Y	NA	
	Iodine-129	pCi/L	3.8E+00	J3	NA	
	Nitrate as nitrogen	µg/L	12,000	Y	13,000	
	pH	pH	6.6	JY3	6.7	J1
	Tritium	pCi/mL	6.2E+02		1.1E+03	
	Zinc	µg/L	21	VY	NA	
FSB 92C	Aluminum	µg/L	870	Y	NA	
	Cyanide	µg/L	23	Y	NA	
	Gross alpha	pCi/L	3.2E+01	Y	5.2E+01	
	Iodine-129	pCi/L	3.1E+01		NA	
	Nitrate as nitrogen	µg/L	45,000	Y	49,000	
	Nonvolatile beta	pCi/L	4.1E+02	Y	4.0E+02	
	pH	pH	5.4	JY3	5.6	J1
	Strontium-89	pCi/L	2.4E+01		NA	
	Strontium-90	pCi/L	1.3E+02		NA	
	Tritium	pCi/mL	2.1E+03	Y	1.9E+03	
	Zinc	µg/L	53	Y	NA	
FSB 93C	Iodine-129	pCi/L	1.8E+01		NA	
	Nitrate as nitrogen	µg/L	40,000		44,000	
	pH	pH	4.4	J3	5.0	J1
	Tritium	pCi/mL	1.6E+03		1.6E+03	
	Zinc	µg/L	81		NA	
FSB 94C	Aluminum	µg/L	50,000	Y	NA	
	Cadmium	µg/L	25	Y	24	J
	Cobalt	µg/L	670	Y	NA	
	Copper	µg/L	61	Y	NA	
	Gross alpha	pCi/L	6.2E+01		6.4E+01	
	Nickel	µg/L	180	Y	NA	
	Nitrate as nitrogen	µg/L	240,000	J	280,000	
	Nonvolatile beta	pCi/L	2.4E+03		2.3E+03	
	pH	pH	4.3	JY3	4.2	J1
	Radium-226	pCi/L	4.9E+01		NA	
	Radium-228	pCi/L	2.4E+01		NA	
	Strontium-90	pCi/L	3.5E+02		NA	
	Tritium	pCi/mL	1.1E+04		1.0E+04	
	Uranium-233/234	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	1.6E+01		NA	
	Zinc	µg/L	330	Y	NA	
FSB 95CR	Aluminum	µg/L	50,000	Y	NA	
	Americium-241	pCi/L	1.1E+01		NA	
	Cadmium	µg/L	19	Y	—	
	Cobalt	µg/L	510	Y	NA	
	Curium-243/244	pCi/L	1.8E+01		NA	
	Gross alpha	pCi/L	6.6E+02		1.3E+03	
	Iodine-129	pCi/L	2.0E+02		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Nickel	µg/L	100	Y	NA	
	Nitrate as nitrogen	µg/L	230,000	Y	2,400,000	
	Nonvolatile beta	pCi/L	2.4E+03		2.4E+03	
	pH	pH	4.0	JY3	4.1	J1
	Radium-226	pCi/L	7.9E+01		NA	
	Strontium-89	pCi/L	6.2E+01		NA	
	Strontium-90	pCi/L	7.0E+02		NA	
	Tritium	pCi/mL	1.1E+04		1.1E+04	
	Uranium-233/234	pCi/L	3.6E+02		NA	
	Uranium-235	pCi/L	2.1E+01		NA	
	Uranium-238	pCi/L	4.0E+02		NA	
	Zinc	µg/L	330	Y	NA	
FSB 97C	Aluminum	µg/L	110,000	Y	NA	
	Americium-241	pCi/L	6.4E+01		NA	
	Cobalt	µg/L	450	Y	NA	
	Copper	µg/L	170	Y	NA	
	Curium-243/244	pCi/L	5.3E+01		NA	
	Gross alpha	pCi/L	3.5E+02		1.4E+03	
	Iodine-129	pCi/L	8.7E+01		NA	
	Lead	µg/L	62	Y	160	
	Nickel	µg/L	98	Y	NA	
	Nitrate as nitrogen	µg/L	280,000	Y	2,600,000	
	Nonvolatile beta	pCi/L	1.1E+03		1.4E+03	
	pH	pH	3.8	JY3	3.8	J1
	Radium-226	pCi/L	9.4E+01		NA	
	Radium-228	pCi/L	4.9E+01		NA	
	Strontium-90	pCi/L	4.8E+02		NA	
	Tritium	pCi/mL	1.6E+04		1.5E+04	JV2
	Uranium-233/234	pCi/L	4.7E+02		NA	
	Uranium-235	pCi/L	3.0E+01		NA	
	Uranium-238	pCi/L	6.4E+02		NA	
	Zinc	µg/L	250	Y	NA	
FSB 98C	Aluminum	µg/L	70,000	Y	NA	
	Americium-241	pCi/L	4.5E+01		NA	
	Cobalt	µg/L	520	Y	NA	
	Copper	µg/L	96	Y	NA	
	Curium-243/244	pCi/L	3.7E+01		NA	
	Gross alpha	pCi/L	8.2E+02		1.6E+03	
	Iodine-129	pCi/L	1.1E+02		NA	
	Nickel	µg/L	70	Y	NA	
	Nitrate as nitrogen	µg/L	200,000	Y	1,700,000	
	Nonvolatile beta	pCi/L	1.3E+03		1.5E+03	
	pH	pH	3.5	JY3	3.3	J1
	Radium-226	pCi/L	4.9E+01		NA	
	Strontium-90	pCi/L	3.7E+02		NA	
	Tritium	pCi/mL	1.1E+04		9.4E+03	JV2
	Uranium-233/234	pCi/L	5.5E+02		NA	
	Uranium-235	pCi/L	2.6E+01		NA	
	Uranium-238	pCi/L	7.9E+02		NA	
	Zinc	µg/L	140	Y	NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 99C	Aluminum	µg/L	140	Y	NA	
	Gross alpha	pCi/L	2.6E+01		4.4E+01	
	Iodine-129	pCi/L	1.6E+01		NA	
	Nitrate as nitrogen	µg/L	33,000	J	32,000	
	Nonvolatile beta	pCi/L	9.4E+01		1.2E+02	
	pH	pH	5.5	JY3	5.4	J1
	Strontium-90	pCi/L	2.4E+01		NA	
	Trichloroethylene	µg/L	25	Y	NA	
	Tritium	pCi/mL	1.6E+03		2.0E+03	
	Zinc	µg/L	25	Y	NA	
FSB102C	Aluminum	µg/L	3,300	Y	NA	
	Nitrate as nitrogen	µg/L	31,000	Y	35,000	
	Nonvolatile beta	pCi/L	4.1E+02		4.2E+02	
	pH	pH	4.2	JY3	4.6	J1
	Tritium	pCi/mL	8.5E+02		9.2E+02	
FSB103C	Iodine-129	pCi/L	4.5E+00		NA	
	Nitrate as nitrogen	µg/L	22,000	J	25,000	
	pH	pH	5.9	JY3	5.9	J1
	Tritium	pCi/mL	6.5E+02		6.3E+02	
	Zinc	µg/L	74	Y	NA	
FSB104C	Aluminum	µg/L	64	Y	NA	
	Nitrate as nitrogen	µg/L	49,000	Y	49,000	
	pH	pH	6.3	JY3	5.2	J1
	Tritium	pCi/mL	1.3E+03		1.3E+03	
FSB105C	Aluminum	µg/L	65,000	Y	NA	
	Americium-241	pCi/L	3.2E+01		NA	
	Cadmium	µg/L	13	Y	—	
	Cobalt	µg/L	310	Y	NA	
	Copper	µg/L	71	Y	NA	
	Curium-243/244	pCi/L	2.7E+01		NA	
	Gross alpha	pCi/L	4.6E+02		8.3E+02	
	Iodine-129	pCi/L	9.4E+01		NA	
	Nickel	µg/L	62	Y	NA	
	Nitrate as nitrogen	µg/L	180,000	Y	160,000	
	Nonvolatile beta	pCi/L	1.2E+03		1.0E+03	
	pH	pH	3.6	JY3	3.5	J1
	Radium-226	pCi/L	6.6E+01		NA	
	Radium-228	pCi/L	2.6E+01		NA	
	Strontium-90	pCi/L	5.4E+02		NA	
	Tritium	pCi/mL	1.1E+04		8.6E+03	
	Uranium-233/234	pCi/L	2.9E+02		NA	
	Uranium-238	pCi/L	3.0E+02		NA	
	Zinc	µg/L	130	Y	NA	
FSB106C	Aluminum	µg/L	6,400	Y	NA	
	Cadmium	µg/L	14	Y3	—	
	Gross alpha	pCi/L	7.1E+01		5.0E+01	
	Nitrate as nitrogen	µg/L	84,000	Y	90,000	
	Nonvolatile beta	pCi/L	1.2E+03		1.2E+03	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	pH	pH	4.7	JY3	4.9	J1
	Tritium	pCi/mL	2.3E+03		2.5E+03	
FSB107C	Aluminum	µg/L	54	Y	NA	
	Nitrate as nitrogen	µg/L	12,000	Y	11,000	
	Nonvolatile beta	pCi/L	7.8E+01		6.6E+01	
	pH	pH	6.7	JY3	6.6	J1
	Strontium-90	pCi/L	3.0E+01		NA	
	Trichlorofluoromethane	µg/L	7.3	Y	NA	
	Tritium	pCi/mL	2.4E+02		2.3E+02	
FSB110C	Iodine-129	pCi/L	1.7E+01		NA	
	Nitrate as nitrogen	µg/L	46,000		51,000	
	Nonvolatile beta	pCi/L	6.5E+01		7.8E+01	
	pH	pH	5.8	J3	6.1	J1
	Tritium	pCi/mL	1.4E+03		1.5E+03	
	Zinc	µg/L	98		NA	
FSB111C	pH	pH	5.9	JY3	5.9	J1
FSB112C	Aluminum	µg/L	16,000	Y	NA	
	Cadmium	µg/L	35	Y	40	
	Cobalt	µg/L	280	Y	NA	
	Cyanide	µg/L	7.3	Y	NA	
	Gross alpha	pCi/L	1.9E+02		2.0E+02	
	Iodine-129	pCi/L	2.0E+02		NA	
	Nickel	µg/L	92	Y	NA	
	Nitrate as nitrogen	µg/L	200,000	Y	210,000	
	Nonvolatile beta	pCi/L	2.2E+03		2.0E+03	
	pH	pH	4.4	JY3	4.7	J1
	Radium-226	pCi/L	1.1E+02		NA	
	Radium-228	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	7.7E+02		NA	
	Tritium	pCi/mL	7.5E+03		7.3E+03	
	Zinc	µg/L	190	Y	NA	
FSB113C	Aluminum	µg/L	440	Y	NA	
	pH	pH	11	JY3	11	J1
	Tritium	pCi/mL	7.1E+01		6.8E+01	
FSB114C	pH	pH	5.9	J1	5.8	J1
FSB115C	Aluminum	µg/L	100	Y	NA	
	pH	pH	5.6	JY3	5.9	J1
FSB116C	pH	pH	5.9	JY1	5.3	J1
FSB120C	Aluminum	µg/L	140	Y	NA	
	Gross alpha	pCi/L	1.6E+01		—	
	Iodine-129	pCi/L	1.5E+01		NA	
	Nitrate as nitrogen	µg/L	39,000	Y	37,000	
	Nonvolatile beta	pCi/L	—		5.3E+01	
	pH	pH	6.1	JY3	6.2	J1

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB121C	Tritium	pCi/mL	1.3E+03		1.1E+03	
	Zinc	µg/L	23	VY	NA	
	pH	pH	6.3	JY3	6.1	J1
FSB122C	Tritium	pCi/mL	1.1E+02		1.2E+02	
	Aluminum	µg/L	500	Y	NA	
	Gross alpha	pCi/L	1.9E+01		2.0E+01	
	Nitrate as nitrogen	µg/L	45,000	Y	59,000	
	Nonvolatile beta	pCi/L	6.2E+01		9.3E+01	
	pH	pH	4.7	JY3	4.7	J3
FSB123C	Tritium	pCi/mL	1.5E+03		2.5E+03	
	pH	pH	6.0	JY3	5.8	J1

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 78B	Cyanide	µg/L	43	Y	NA	
	Iodine-129	pCi/L	3.4E+00	J3	NA	
	Nitrate as nitrogen	µg/L	—	Y	11,000	
	Tritium	pCi/mL	2.0E+02		3.0E+02	
FSB 79B	Tritium	pCi/mL	2.7E+01		—	
FSB 87B	pH	pH	6.2	J3	6.0	J1
	Tritium	pCi/mL	8.6E+01		8.8E+01	
FSB 96AR	Tritium	pCi/mL	4.5E+01		—	
FSB 97A	Iodine-129	pCi/L	2.6E+00	J3	NA	
	Nitrate as nitrogen	µg/L	11,000	Y	—	
	Tritium	pCi/mL	3.4E+02		2.7E+02	
FSB 98AR	Tritium	pCi/mL	2.5E+01		2.7E+01	
FSB 99A	pH	pH	6.7	J3	—	J1
	Tritium	pCi/mL	1.6E+02		1.6E+02	
FSB100A	Iodine-129	pCi/L	2.2E+00	J3	NA	
	Tritium	pCi/mL	1.3E+02		1.2E+02	
	Zinc	µg/L	60		NA	
FSB112A	Dichloromethane (Methylene chloride)	µg/L	24	V	—	JV2
	Iodine-129	pCi/L	2.7E+00	J3	NA	
	Tritium	pCi/mL	1.1E+02		1.2E+02	
FSB113A	Aluminum	µg/L	2,100	Y	NA	
	pH	pH	12	JY3	12	J1
	Tritium	pCi/mL	1.5E+02		2.0E+02	

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB114A	Nonvolatile beta pH	pCi/L pH	– 6.1	UI J3	5.6E+01 –	J1
FSB120A	Aluminum pH Tritium	µg/L pH pCi/mL	610 9.7 5.5E+01	Y JY3	NA 11 7.7E+01	J1

Aquifer Unit IIA (lower Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 76A	pH	pH	6.6	JY3	–	J1
FSB 78A	pH	pH	6.6	J3	6.6	J1
FSB 79A	pH	pH	6.3	JY3	6.5	J1
FSB 87A	pH	pH	6.5	J3	6.7	J1

Notes: This table presents the highest value for duplicate/replicate results. The groundwater samples are unfiltered. Therefore, the results for the metals are for total recoverable metals. Flags are established by EPD/EMS and are based on final PDWS, Secondary Drinking Water Standards, or method detection limits (see Appendix B). Nitrate concentrations in several Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) wells were unusually high during fourth quarter 1994 compared to previous quarters of the year. These values were confirmed by the analytical laboratory.

^a NA = not analyzed (NA with an R modifier = result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met).

^b – = analyzed but not above the GWPS.

Table 2. Maximum Levels of Constituents Exceeding the SRS Flag 2 Criteria

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 76	Aluminum	µg/L	320		NA ^a	
	Nitrate as nitrogen	µg/L	17,000	J	13,000	
	Tritium	pCi/mL	6.9E+02	Y	4.0E+02	
FSB 77	Aluminum	µg/L	20,000		NA	
	Gross alpha	pCi/L	7.1E+02		9.7E+02	
	Nitrate as nitrogen	µg/L	47,000		56,000	
	Nonvolatile beta	pCi/L	8.8E+02		1.1E+03	
	Tritium	pCi/mL	2.0E+03		2.7E+03	
FSB 78	Aluminum	µg/L	50,000		NA	
	Cadmium	µg/L	18		21	
	Gross alpha	pCi/L	7.8E+02	Y	1.9E+03	
	Nitrate as nitrogen	µg/L	170,000		140,000	
	Nonvolatile beta	pCi/L	2.6E+03	Y	3.1E+03	
	Tritium	pCi/mL	9.8E+03	Y	7.9E+03	
FSB 79	Aluminum	µg/L	46,000	JY3	NA	
	Gross alpha	pCi/L	3.0E+02		1.3E+03	
	Nitrate as nitrogen	µg/L	98,000	J	220,000	
	Nonvolatile beta	pCi/L	5.4E+02		9.0E+02	
	Tritium	pCi/mL	7.8E+03		1.1E+04	
FSB 87D	Aluminum	µg/L	460	Y	NA	
	Gross alpha	pCi/L	8.9E+01		7.0E+01	
	Nonvolatile beta	pCi/L	6.0E+01		_b	
	Tritium	pCi/mL	4.6E+01		3.2E+01	
FSB 88D	Aluminum	µg/L	39,000	Y	NA	
	Americium-241	pCi/L	5.4E+01		NA	
	Curium-243/244	pCi/L	1.9E+02		NA	
	Dichloromethane	µg/L	9.6	Y	NA	
	Gross alpha	pCi/L	7.2E+02		9.5E+02	
	Iodine-129	pCi/L	1.9E+02		NA	
	Mercury	µg/L	18	Y	NA	
	Nitrate as nitrogen	µg/L	110,000	Y	99,000	
	Nonvolatile beta	pCi/L	1.5E+03		1.3E+03	
	Radium-228	pCi/L	2.1E+01		NA	
	Strontium-90	pCi/L	6.4E+02		NA	
	Tritium	pCi/mL	4.1E+03		3.0E+03	
	Uranium-233/234	pCi/L	3.0E+02		NA	
	Uranium-235	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	3.9E+02		NA	
FSB 89D	Aluminum	µg/L	17,000	Y	NA	
	Americium-241	pCi/L	1.6E+01		NA	
	Cadmium	µg/L	10	Y	22	
	Curium-243/244	pCi/L	1.0E+01		NA	
	Dichloromethane	µg/L	6.1	Y	NA	
	Gross alpha	pCi/L	2.6E+02		4.5E+02	
	Iodine-129	pCi/L	5.1E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Mercury	µg/L	2.2	Y	NA	
	Nitrate as nitrogen	µg/L	110,000	Y	190,000	
	Nonvolatile beta	pCi/L	1.7E+03		3.5E+03	
	Strontium-89	pCi/L	1.2E+02		NA	
	Strontium-90	pCi/L	9.4E+02		NA	
	Tritium	pCi/mL	4.0E+03		6.4E+03	
	Uranium-233/234	pCi/L	1.4E+02		NA	
	Uranium-238	pCi/L	1.7E+02		NA	
FSB 90D	Aluminum	µg/L	35,000	JY3	NA	
	Americium-241	pCi/L	2.1E+01		NA	
	Cadmium	µg/L	9.3	Y	—	
	Curium-243/244	pCi/L	8.9E+00		NA	
	Gross alpha	pCi/L	5.0E+02		4.7E+02	
	Iodine-129	pCi/L	2.3E+02		NA	
	Lead	µg/L	80	Y	—	
	Mercury	µg/L	10	Y	NA	
	Nitrate as nitrogen	µg/L	110,000	Y	59,000	
	Nonvolatile beta	pCi/L	1.4E+03		7.1E+02	
	Radium-228	pCi/L	3.4E+01		NA	
	Strontium-90	pCi/L	5.7E+02		NA	
	Tritium	pCi/mL	8.1E+03		3.0E+03	
	Uranium-233/234	pCi/L	3.7E+02		NA	
	Uranium-235	pCi/L	2.2E+01		NA	
	Uranium-238	pCi/L	4.2E+02		NA	
FSB 91D	Aluminum	µg/L	10,000	Y	NA	
	Gross alpha	pCi/L	2.0E+02	Y	2.0E+02	
	Iodine-129	pCi/L	3.0E+01		NA	
	Nitrate as nitrogen	µg/L	19,000	Y	22,000	
	Nonvolatile beta	pCi/L	1.5E+02	Y	1.8E+02	
	Strontium-90	pCi/L	3.3E+01		NA	
	Tritium	pCi/mL	3.5E+02	Y	1.3E+03	
	Uranium-233/234	pCi/L	9.2E+01		NA	
	Uranium-238	pCi/L	1.4E+02		NA	
FSB 92D	Aluminum	µg/L	55,000	JY3	NA	
	Americium-241	pCi/L	8.2E+00		NA	
	Cadmium	µg/L	19	Y	16	
	Curium-243/244	pCi/L	9.3E+00		NA	
	Gross alpha	pCi/L	2.9E+02		6.2E+02	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nitrate as nitrogen	µg/L	140,000	Y	150,000	
	Nonvolatile beta	pCi/L	1.4E+03		1.7E+03	
	Radium-226	pCi/L	6.9E+01		NA	
	Radium-228	pCi/L	3.5E+01		NA	
	Strontium-90	pCi/L	6.1E+02		NA	
	Tritium	pCi/mL	9.7E+03		9.9E+03	
	Uranium-233/234	pCi/L	1.6E+02		NA	
	Uranium-238	pCi/L	2.1E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 93D	Aluminum	µg/L	35,000	Y	NA	
	Americium-241	pCi/L	6.9E+00		NA	
	Cadmium	µg/L	16	Y	13	
	Gross alpha	pCi/L	1.5E+02		2.7E+02	
	Iodine-129	pCi/L	1.2E+02		NA	
	Nitrate as nitrogen	µg/L	110,000	Y	120,000	
	Nonvolatile beta	pCi/L	2.5E+03		1.7E+03	
	Radium-228	pCi/L	2.3E+01		NA	
	Strontium-89	pCi/L	4.7E+02		NA	
	Strontium-90	pCi/L	9.5E+02		NA	
	Tritium	pCi/mL	1.1E+04		1.1E+04	
	Uranium-233/234	pCi/L	5.1E+01		NA	
	Uranium-238	pCi/L	7.9E+01		NA	
FSB 94DR	Aluminum	µg/L	81,000	JY3	NA	
	Americium-241	pCi/L	1.1E+02		NA	
	Cadmium	µg/L	5.2	Y	5.2	
	Cesium-137	pCi/L	3.1E+02		NA	
	Cobalt	µg/L	49	Y	NA	
	Curium-243/244	pCi/L	2.0E+02		NA	
	Gross alpha	pCi/L	1.3E+03		1.1E+04	
	Iodine-129	pCi/L	1.6E+02		NA	
	Nitrate as nitrogen	µg/L	170,000	Y	1,700,000	
	Nonvolatile beta	pCi/L	2.1E+03		2.3E+03	
	Radium-228	pCi/L	5.6E+01		NA	
	Strontium-90	pCi/L	4.0E+02		NA	
	Thorium-234	pCi/L	4.4E+02	J	NA	
	Tritium	pCi/mL	1.3E+04		1.9E+04	J1
	Uranium-233/234	pCi/L	6.0E+02		NA	
	Uranium-235	pCi/L	2.7E+01		NA	
	Uranium-238	pCi/L	1.1E+03		NA	
FSB 95DR	Aluminum	µg/L	70,000	Y	NA	
	Americium-241	pCi/L	1.2E+02		NA	
	Cesium-137	pCi/L	5.1E+02		NA	
	Cobalt	µg/L	44	Y	NA	
	Curium-243/244	pCi/L	1.0E+02		NA	
	Gross alpha	pCi/L	1.4E+03		2.4E+03	
	Iodine-129	pCi/L	2.1E+02		NA	
	Nitrate as nitrogen	µg/L	260,000	J	2,300,000	
	Nonvolatile beta	pCi/L	1.5E+03		1.8E+03	
	Radium-228	pCi/L	4.6E+01		NA	
	Strontium-90	pCi/L	1.8E+02		NA	
	Thorium-234	pCi/L	4.6E+02	J	NA	
	Tritium	pCi/mL	1.5E+04		1.1E+04	JV2
	Uranium-233/234	pCi/L	5.6E+02		NA	
	Uranium-235	pCi/L	3.7E+01		NA	
	Uranium-238	pCi/L	1.6E+03		NA	
FSB 97D	Aluminum	µg/L	80,000	Y	NA	
	Americium-241	pCi/L	6.5E+01		NA	
	Cobalt	µg/L	150	Y	NA	
	Curium-243/244	pCi/L	6.1E+01		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Gross alpha	pCi/L	5.8E+02		2.9E+03	
	Iodine-129	pCi/L	1.0E+02		NA	
	Lead	µg/L	59	Y	99	
	Nitrate as nitrogen	µg/L	280,000	Y	2,400,000	
	Nonvolatile beta	pCi/L	1.7E+03		2.5E+03	
	Radium-228	pCi/L	3.3E+01		NA	
	Strontium-89	pCi/L	2.3E+02		NA	
	Strontium-90	pCi/L	3.8E+02		NA	
	Tritium	pCi/mL	1.6E+04		1.3E+04	JV2
	Uranium-233/234	pCi/L	3.9E+02		NA	
	Uranium-235	pCi/L	2.1E+01		NA	
	Uranium-238	pCi/L	9.4E+02		NA	
FSB 98D	Aluminum	µg/L	15,000	Y	NA	
	Americium-241	pCi/L	2.6E+01		NA	
	Cadmium	µg/L	14	Y	7.3	
	Curium-243/244	pCi/L	2.6E+01		NA	
	Gross alpha	pCi/L	2.9E+02		6.5E+02	
	Iodine-129	pCi/L	4.5E+01		NA	
	Nitrate as nitrogen	µg/L	91,000	Y	470,000	
	Nonvolatile beta	pCi/L	1.1E+03		1.1E+03	
	Radium-228	pCi/L	2.5E+01		NA	
	Strontium-90	pCi/L	5.0E+02		NA	
	Thorium-234	pCi/L	4.7E+02	J	NA	
	Tritium	pCi/mL	5.3E+03		3.6E+03	JV2
	Uranium-233/234	pCi/L	3.9E+02		NA	
	Uranium-235	pCi/L	2.5E+01		NA	
	Uranium-238	pCi/L	9.5E+02		NA	
FSB 99D	Aluminum	µg/L	160	Y	NA	
	Gross alpha	pCi/L	1.8E+01		—	
	Tritium	pCi/mL	2.8E+01		3.0E+01	
FSB104D	Aluminum	µg/L	47,000	Y	NA	
	Americium-241	pCi/L	1.5E+01		NA	
	Cadmium	µg/L	5.7	Y	—	
	Cobalt	µg/L	54	Y	NA	
	Curium-243/244	pCi/L	1.2E+01		NA	
	Gross alpha	pCi/L	4.2E+02		7.6E+02	
	Iodine-129	pCi/L	6.2E+01		NA	
	Nitrate as nitrogen	µg/L	100,000	Y	1,000,000	
	Nonvolatile beta	pCi/L	1.1E+03		1.2E+03	
	Radium-226	pCi/L	2.7E+01		NA	
	Radium-228	pCi/L	2.1E+01		NA	
	Strontium-90	pCi/L	8.1E+02		NA	
	Tritium	pCi/mL	6.9E+03		6.6E+03	JV2
	Uranium-235	pCi/L	2.0E+01		NA	
	Uranium-238	pCi/L	4.5E+02		NA	
FSB105DR	Aluminum	µg/L	16,000	Y	NA	
	Gross alpha	pCi/L	3.4E+02		5.0E+02	
	Nitrate as nitrogen	µg/L	43,000	Y	32,000	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Nonvolatile beta	pCi/L	8.2E+02		6.9E+02	
	Tritium	pCi/mL	1.0E+03		6.3E+02	
FSB106D	Aluminum	μg/L	190	Y	NA	
	Lead	μg/L	—	Y	63	
FSB107D	Aluminum	μg/L	23,000	Y	NA	
	Americium-241	pCi/L	3.8E+01		NA	
	Cadmium	μg/L	8.7	Y	6.5	
	Curium-243/244	pCi/L	2.2E+01		NA	
	Gross alpha	pCi/L	1.1E+03		3.2E+03	
	Iodine-129	pCi/L	3.1E+02		NA	
	Mercury	μg/L	6.7	Y	NA	
	Nitrate as nitrogen	μg/L	91,000	Y	700,000	
	Nonvolatile beta	pCi/L	1.6E+03		1.8E+03	
	Radium-226	pCi/L	3.1E+01		NA	
	Radium-228	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	4.5E+02		NA	
	Tritium	pCi/mL	3.5E+03		2.4E+03	JV2
	Uranium-233/234	pCi/L	4.7E+02	JV2	NA	
	Uranium-235	pCi/L	2.2E+01		NA	
	Uranium-238	pCi/L	6.1E+02	JV2	NA	
FSB108D	Aluminum	μg/L	110	JV2	72	JV2
FSB109D	Aluminum	μg/L	130	Y	220	JV2
	Tritium	pCi/mL	2.1E+01		2.1E+01	
FSB110D	Aluminum	μg/L	80,000	Y	NA	
	Americium-241	pCi/L	8.1E+01		NA	
	Cadmium	μg/L	8.3	Y	—	
	Curium-243/244	pCi/L	1.4E+02		NA	
	Gross alpha	pCi/L	9.5E+02		8.1E+02	
	Iodine-129	pCi/L	3.3E+02		NA	
	Mercury	μg/L	5.2	Y	NA	
	Nitrate as nitrogen	μg/L	330,000	Y	310,000	
	Nonvolatile beta	pCi/L	2.9E+03		1.0E+03	
	Radium-228	pCi/L	3.0E+01		NA	
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	8.7E+02		NA	
	Tritium	pCi/mL	2.2E+04	Y	2.1E+04	
	Uranium-233/234	pCi/L	3.2E+02		NA	
	Uranium-235	pCi/L	2.0E+01		NA	
	Uranium-238	pCi/L	1.2E+03		NA	
FSB112D	Aluminum	μg/L	69,000	Y	NA	
	Cadmium	μg/L	22	Y	23	
	Cobalt	μg/L	140	Y	NA	
	Gross alpha	pCi/L	1.9E+02		2.6E+02	
	Iodine-129	pCi/L	1.3E+02		NA	
	Nitrate as nitrogen	μg/L	180,000	Y	170,000	
	Nonvolatile beta	pCi/L	3.4E+03		3.0E+03	
	Radium-226	pCi/L	1.3E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Radium-228	pCi/L	5.5E+01		NA	
	Strontium-89	pCi/L	1.5E+02		NA	
	Strontium-90	pCi/L	1.2E+03		NA	
	Tritium	pCi/mL	1.2E+04		1.0E+04	
FSB114D	Aluminum	µg/L	53		NA	
FSB115D	Aluminum	µg/L	640	Y	NA	
FSB116D	Aluminum	µg/L	580	Y	NA	
FSB117D	Aluminum	µg/L	23,000	Y	NA	
	Gross alpha	pCi/L	1.2E+03		1.1E+03	
	Nitrate as nitrogen	µg/L	62,000	JY3	68,000	
	Nonvolatile beta	pCi/L	8.6E+02		8.1E+02	
	Tritium	pCi/mL	2.5E+03		2.4E+03	
FSB119D	Aluminum	µg/L	41,000	Y	NA	
	Cadmium	µg/L	—	Y	6.5	
	Gross alpha	pCi/L	1.2E+03		1.8E+03	
	Nitrate as nitrogen	µg/L	110,000	Y	150,000	
	Nonvolatile beta	pCi/L	1.4E+03		1.4E+03	
	Tritium	pCi/mL	6.5E+03	Y	8.0E+03	
FSB121DR	Aluminum	µg/L	3,800	Y	NA	
	Gross alpha	pCi/L	—		2.5E+01	
	Nitrate as nitrogen	µg/L	11,000	Y	—	
	Nonvolatile beta	pCi/L	4.2E+02		1.1E+02	
	Tritium	pCi/mL	1.1E+02		6.1E+01	
FSB122D	Aluminum	µg/L	120	Y	NA	
	Iodine-129	pCi/L	2.1E+00	J3	NA	
	Nitrate as nitrogen	µg/L	—	Y	15,000	
	Tritium	pCi/mL	5.8E+02		8.3E+02	
FSB123D	Aluminum	µg/L	56	Y	NA	
FSL 1D	Aluminum	µg/L	500	Y	NA	
	Trichloroethylene	µg/L	5.0	Y	—	
	Trichlorofluoromethane	µg/L	14	Y	26	
	Tritium	pCi/mL	2.0E+02	Y	9.4E+01	
FSL 2D	Aluminum	µg/L	700	VY	NA	
	Lead	µg/L	—	Y	110	
FSL 3D	Lead	µg/L	—	Y	1,200	
	Trichlorofluoromethane	µg/L	19	Y	15	
	Tritium	pCi/mL	6.8E+01	Y	5.4E+01	
FSL 4D	Aluminum	µg/L	540	VY	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSL 5D	Nitrate as nitrogen	µg/L	37,000	J	49,000	
	Nonvolatile beta	pCi/L	4.6E+02	Y	3.2E+02	
	Tritium	pCi/mL	1.1E+03	Y	1.2E+03	
FSL 6D	Aluminum	µg/L	210	Y	NA	
	Nitrate as nitrogen	µg/L	41,000	J	23,000	
	Trichloroethylene	µg/L	—	JY3	7.7	
	Tritium	pCi/mL	1.8E+03	Y	8.3E+02	
FSL 7D	Aluminum	µg/L	1,900	Y	NA	
	Gross alpha	pCi/L	5.0E+01	Y	3.9E+01	
	Nitrate as nitrogen	µg/L	84,000	J	88,000	Y
	Nonvolatile beta	pCi/L	1.5E+02	Y	7.6E+01	
	Tritium	pCi/mL	2.5E+03	Y	2.1E+03	
FSL 8D	Tritium	pCi/mL	3.0E+01		2.2E+01	
FSL 9D	Aluminum	µg/L	3,800	Y	NA	
	Gross alpha	pCi/L	7.6E+01		8.4E+01	
	Mercury	µg/L	2.6	Y	—	
	Nitrate as nitrogen	µg/L	18,000	Y	11,000	
	Nonvolatile beta	pCi/L	3.3E+02		3.0E+02	
	Tritium	pCi/mL	9.6E+02		4.6E+02	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 78C	Aluminum	µg/L	16,000	JY3	NA	
	Cadmium	µg/L	17	Y	—	
	Cobalt	µg/L	290	Y	NA	
	Gross alpha	pCi/L	7.6E+01		2.2E+02	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nickel	µg/L	120	Y	NA	
	Nitrate as nitrogen	µg/L	250,000	Y	240,000	
	Nonvolatile beta	pCi/L	9.0E+02		1.5E+03	
	Radium-226	pCi/L	3.9E+01		NA	
	Strontium-90	pCi/L	5.1E+02		NA	
	Tritium	pCi/mL	8.9E+03		8.8E+03	
	Uranium-233/234	pCi/L	5.4E+01		NA	
	Uranium-238	pCi/L	6.0E+01		NA	
FSB 79C	Aluminum	µg/L	38,000	Y	NA	
	Americium-241	pCi/L	2.1E+01		NA	
	Cadmium	µg/L	27	Y	18	
	Cobalt	µg/L	130	Y	NA	
	Curium-243/244	pCi/L	2.0E+01		NA	
	Gross alpha	pCi/L	3.1E+02		6.3E+02	
	Iodine-129	pCi/L	6.9E+01		NA	
	Nitrate as nitrogen	µg/L	110,000	J	130,000	
	Nonvolatile beta	pCi/L	2.3E+03		2.4E+03	
	Radium-226	pCi/L	4.2E+01		NA	
	Strontium-89	pCi/L	1.6E+02		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Strontium-90	pCi/L	6.8E+02		NA	
	Tritium	pCi/mL	8.8E+03		7.9E+03	
	Uranium-233/234	pCi/L	2.1E+02		NA	
	Uranium-238	pCi/L	2.2E+02		NA	
FSB 87C	Nitrate as nitrogen	µg/L	71,000	Y	—	
	Tritium	pCi/mL	5.6E+02		4.9E+02	
FSB 88C	Tritium	pCi/mL	2.5E+01		2.1E+01	
FSB 89C	Aluminum	µg/L	55		NA	
	Iodine-129	pCi/L	4.5E+00		NA	
FSB 90C	Aluminum	µg/L	140	Y	NA	
	Iodine-129	pCi/L	3.8E+00	J3	NA	
	Nitrate as nitrogen	µg/L	12,000	Y	13,000	
	Tritium	pCi/mL	6.2E+02		1.1E+03	
FSB 92C	Aluminum	µg/L	870	Y	NA	
	Cadmium	µg/L	5.8	Y	—	
	Gross alpha	pCi/L	3.2E+01	Y	5.2E+01	
	Iodine-129	pCi/L	3.1E+01		NA	
	Nitrate as nitrogen	µg/L	45,000	Y	49,000	
	Nonvolatile beta	pCi/L	4.1E+02	Y	4.0E+02	
	Strontium-89	pCi/L	2.4E+01		NA	
	Strontium-90	pCi/L	1.3E+02		NA	
	Tritium	pCi/mL	2.1E+03	Y	1.9E+03	
FSB 93C	Iodine-129	pCi/L	1.8E+01		NA	
	Nitrate as nitrogen	µg/L	40,000		44,000	
	Tritium	pCi/mL	1.6E+03		1.6E+03	
FSB 94C	Aluminum	µg/L	50,000	Y	NA	
	Cadmium	µg/L	25	Y	24	J
	Cobalt	µg/L	670	Y	NA	
	Gross alpha	pCi/L	6.2E+01		6.4E+01	
	Nickel	µg/L	180	Y	NA	
	Nitrate as nitrogen	µg/L	240,000	J	280,000	
	Nonvolatile beta	pCi/L	2.4E+03		2.3E+03	
	Radium-226	pCi/L	4.9E+01		NA	
	Radium-228	pCi/L	2.4E+01		NA	
	Strontium-90	pCi/L	3.5E+02		NA	
	Tritium	pCi/mL	1.1E+04		1.0E+04	
	Uranium-233/234	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	1.6E+01		NA	
FSB 95CR	Aluminum	µg/L	50,000	Y	NA	
	Americium-241	pCi/L	1.1E+01		NA	
	Cadmium	µg/L	19	Y	—	
	Cobalt	µg/L	510	Y	NA	
	Curium-243/244	pCi/L	1.8E+01		NA	
	Gross alpha	pCi/L	6.6E+02		1.3E+03	
	Iodine-129	pCi/L	2.0E+02		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 97C	Nickel	µg/L	100	Y	NA	
	Nitrate as nitrogen	µg/L	230,000	Y	2,400,000	
	Nonvolatile beta	pCi/L	2.4E+03		2.4E+03	
	Radium-226	pCi/L	7.9E+01		NA	
	Strontium-89	pCi/L	6.2E+01		NA	
	Strontium-90	pCi/L	7.0E+02		NA	
	Tritium	pCi/mL	1.1E+04		1.1E+04	
	Uranium-233/234	pCi/L	3.6E+02		NA	
	Uranium-235	pCi/L	2.1E+01		NA	
	Uranium-238	pCi/L	4.0E+02		NA	
	Aluminum	µg/L	110,000	Y	NA	
	Americium-241	pCi/L	6.4E+01		NA	
	Cadmium	µg/L	8.1	Y	—	
	Cobalt	µg/L	450	Y	NA	
	Curium-243/244	pCi/L	5.3E+01		NA	
	Gross alpha	pCi/L	3.5E+02		1.4E+03	
	Iodine-129	pCi/L	8.7E+01		NA	
	Lead	µg/L	62	Y	160	
	Nitrate as nitrogen	µg/L	280,000	Y	2,600,000	
FSB 98C	Nonvolatile beta	pCi/L	1.1E+03		1.4E+03	
	Radium-226	pCi/L	9.4E+01		NA	
	Radium-228	pCi/L	4.9E+01		NA	
	Strontium-90	pCi/L	4.8E+02		NA	
	Tritium	pCi/mL	1.6E+04		1.5E+04	JV2
	Uranium-233/234	pCi/L	4.7E+02		NA	
	Uranium-235	pCi/L	3.0E+01		NA	
	Uranium-238	pCi/L	6.4E+02		NA	
	Aluminum	µg/L	70,000	Y	NA	
	Americium-241	pCi/L	4.5E+01		NA	
	Cadmium	µg/L	9.6	Y	—	J
	Cobalt	µg/L	520	Y	NA	
	Curium-243/244	pCi/L	3.7E+01		NA	
	Gross alpha	pCi/L	8.2E+02		1.6E+03	
	Iodine-129	pCi/L	1.1E+02		NA	
	Nitrate as nitrogen	µg/L	200,000	Y	1,700,000	
	Nonvolatile beta	pCi/L	1.3E+03		1.5E+03	
	Radium-226	pCi/L	4.9E+01		NA	
	Strontium-90	pCi/L	3.7E+02		NA	
FSB 99C	Tritium	pCi/mL	1.1E+04		9.4E+03	JV2
	Uranium-233/234	pCi/L	5.5E+02		NA	
	Uranium-235	pCi/L	2.6E+01		NA	
	Uranium-238	pCi/L	7.9E+02		NA	
	Aluminum	µg/L	140	Y	NA	
	Gross alpha	pCi/L	2.6E+01		4.4E+01	
	Iodine-129	pCi/L	1.6E+01		NA	
	Nitrate as nitrogen	µg/L	33,000	J	32,000	
	Nonvolatile beta	pCi/L	9.4E+01		1.2E+02	
	Strontium-90	pCi/L	2.4E+01		NA	

Aquifer Zone IIB, (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
	Trichloroethylene	µg/L	25	Y	NA	
	Tritium	pCi/mL	1.6E+03		2.0E+03	
FSB102C	Aluminum	µg/L	3,300	Y	NA	
	Nitrate as nitrogen	µg/L	31,000	Y	35,000	
	Nonvolatile beta	pCi/L	4.1E+02		4.2E+02	
	Tritium	pCi/mL	8.5E+02		9.2E+02	
FSB103C	Iodine-129	pCi/L	4.5E+00		NA	
	Nitrate as nitrogen	µg/L	22,000	J	25,000	
	Tritium	pCi/mL	6.5E+02		6.3E+02	
FSB104C	Aluminum	µg/L	64	Y	NA	
	Nitrate as nitrogen	µg/L	49,000	Y	49,000	
	Tritium	pCi/mL	1.3E+03		1.3E+03	
FSB105C	Aluminum	µg/L	65,000	Y	NA	
	Americium-241	pCi/L	3.2E+01		NA	
	Cadmium	µg/L	13	Y	5.8	
	Cobalt	µg/L	310	Y	NA	
	Curium-243/244	pCi/L	2.7E+01		NA	
	Gross alpha	pCi/L	4.6E+02		8.3E+02	
	Iodine-129	pCi/L	9.4E+01		NA	
	Nitrate as nitrogen	µg/L	180,000	Y	160,000	
	Nonvolatile beta	pCi/L	1.2E+03		1.0E+03	
	Radium-226	pCi/L	6.6E+01		NA	
	Radium-228	pCi/L	2.6E+01		NA	
	Strontium-90	pCi/L	5.4E+02		NA	
	Tritium	pCi/mL	1.1E+04		8.6E+03	
	Uranium-233/234	pCi/L	2.9E+02		NA	
	Uranium-238	pCi/L	3.0E+02		NA	
FSB106C	Aluminum	µg/L	6,400	Y	NA	
	Cadmium	µg/L	14	Y3	6.5	
	Gross alpha	pCi/L	7.1E+01		5.0E+01	
	Nitrate as nitrogen	µg/L	84,000	Y	90,000	
	Nonvolatile beta	pCi/L	1.2E+03		1.2E+03	
	Tritium	pCi/mL	2.3E+03		2.5E+03	
FSB107C	Aluminum	µg/L	54	Y	NA	
	Nitrate as nitrogen	µg/L	12,000	Y	11,000	
	Nonvolatile beta	pCi/L	7.8E+01		6.6E+01	
	Strontium-90	pCi/L	3.0E+01		NA	
	Tritium	pCi/mL	2.4E+02		2.3E+02	
FSB110C	Iodine-129	pCi/L	1.7E+01		NA	
	Nitrate as nitrogen	µg/L	46,000		51,000	
	Nonvolatile beta	pCi/L	6.5E+01		7.8E+01	
	Tritium	pCi/mL	1.4E+03		1.5E+03	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB112C	Aluminum	µg/L	16,000	Y	NA	
	Cadmium	µg/L	35	Y	40	
	Cobalt	µg/L	280	Y	NA	
	Gross alpha	pCi/L	1.9E+02		2.0E+02	
	Iodine-129	pCi/L	2.0E+02		NA	
	Nitrate as nitrogen	µg/L	200,000	Y	210,000	
	Nonvolatile beta	pCi/L	2.2E+03		2.0E+03	
	Radium-226	pCi/L	1.1E+02		NA	
	Radium-228	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	7.7E+02		NA	
	Tritium	pCi/mL	7.5E+03		7.3E+03	
FSB113C	Aluminum	µg/L	440	Y	NA	
	pH		11	JY3	11	J1
	Tritium	pCi/mL	7.1E+01		6.8E+01	
FSB115C	Aluminum	µg/L	100	Y	NA	
FSB120C	Aluminum	µg/L	140	Y	NA	
	Gross alpha	pCi/L	1.6E+01		—	
	Iodine-129	pCi/L	1.5E+01		NA	
	Nitrate as nitrogen	µg/L	39,000	Y	37,000	
	Nonvolatile beta	pCi/L	—		5.3E+01	
	Tritium	pCi/mL	1.3E+03		1.1E+03	
FSB121C	Tritium	pCi/mL	1.1E+02		1.2E+02	
FSB122C	Aluminum	µg/L	500	Y	NA	
	Gross alpha	pCi/L	1.9E+01		2.0E+01	
	Nitrate as nitrogen	µg/L	45,000	Y	59,000	
	Nonvolatile beta	pCi/L	6.2E+01		9.3E+01	
	Tritium	pCi/mL	1.5E+03		2.5E+03	

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 78B	Iodine-129	pCi/L	3.4E+00	J3	NA	
	Nitrate as nitrogen	µg/L	—	Y	11,000	
	Tritium	pCi/mL	2.0E+02		3.0E+02	
FSB 79B	Tritium	pCi/mL	2.7E+01		—	
FSB 87B	Tritium	pCi/mL	8.6E+01		8.8E+01	
FSB 96AR	Tritium	pCi/mL	4.5E+01		—	
FSB 97A	Iodine-129	pCi/L	2.6E+00	J3	NA	
	Nitrate as nitrogen	µg/L	11,000	Y	—	
	Tritium	pCi/mL	3.4E+02		2.7E+02	

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>3Q94</u>	<u>Mod</u>	<u>4Q94</u>	<u>Mod</u>
FSB 98AR	Tritium	pCi/mL	2.5E+01		2.7E+01	
FSB 99A	Tritium	pCi/mL	1.6E+02		1.6E+02	
FSB100A	Iodine-129	pCi/L	2.2E+00	J3	NA	
	Tritium	pCi/mL	1.3E+02		1.2E+02	
FSB112A	Dichloromethane	µg/L	24	V	—	JV2
	Iodine-129	pCi/L	2.7E+00	J3	NA	
	Tritium	pCi/mL	1.1E+02		1.2E+02	
FSB113A	Aluminum	µg/L	2,100	Y	NA	
	pH	pH	12	JY3	12	J1
	Tritium	pCi/mL	1.5E+02		2.0E+02	
FSB114A	Nonvolatile beta	pCi/L	—	UI	5.6E+01	
FSB120A	Aluminum	µg/L	610	Y	NA	
	pH	pH	—	JY3	11	J1
	Tritium	pCi/mL	5.5E+01		7.7E+01	

Notes: This table presents the highest value for duplicate/replicate results. The groundwater samples are unfiltered. Therefore, the results for the metals are for total recoverable metals. Flags are established by EPD/EMS and are based on final PDWS, Secondary Drinking Water Standards, or method detection limits (see Appendix B). Nitrate concentrations in several Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean) wells were unusually high during fourth quarter 1994 compared to previous quarters of the year. These values were confirmed by the analytical laboratory.

^a NA = not analyzed (NA with an R modifier = result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met).

^b — = analyzed but not above the Flag 2 criterion.

Table 3. Groundwater Monitoring Results for Individual Wells

WELL FSB 76

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N76141.6 E51388.8	33.278022 °N 81.679386 °W	227.0-197.0 ft msl	294.2 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/08/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	217.8	217.3	ft msl
pH	4.4	4.5	pH
Sp. conductance	173	144	µS/cm
Water temperature	20.7	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	4.1	2.9	NTU
Volume purged	8.8	3.2	well volumes
Sampling code			
Synchronous water level	217.5 (09/29/94)	217.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	39	1				1	WA	30	1				1	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable															µg/L
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	320	1		■		2	WA								µg/L
Nitrate as nitrogen	17,000	200	J	■		2	WA	13,000	10		■		2	GE	µg/L
pH	4.7	1	J3	■	●	0	WA	4.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 76 (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.4E+01	1	Y			1	GP	6.6E+00	1				0	GP	pCi/L
Nonvolatile beta	2.0E+01	1	Y			0	GP	6.2E+00	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.9E+02	1	Y	■		2	GP	4.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 76A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N76131.9 E51391.6	33.278005 °N 81.679359 °W	47.4-36.9 ft msl	293.9 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 08/08/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	154.9	155.2	ft msl
pH	6.5	6.9	pH
Sp. conductance	123	124	µS/cm
Water temperature	20.9	16.8	°C
Alkalinity as CaCO ₃	38	38	mg/L
Turbidity	0.7	0.6	NTU
Volume purged	2.9	2.7	well volumes
Sampling code			
Synchronous water level	155.0 (09/29/94)	155.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.6	1	JY3	■	●	0	WA	6.9	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 76A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.9E-01	1	UI			0	GP	5.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.1E+00	1	UI			0	GP	2.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.9E-01	1	UI			0	GP	1.2E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 76B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N76122.4 E51394.0	33.277988 °N 81.679335 °W	109.7-99.2 ft msl	293.8 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/08/94 11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	191.3	151.7	ft msl
pH	6.8	6.9	pH
Sp. conductance	130	129	µS/cm
Water temperature	20.5	16.5	°C
Alkalinity as CaCO ₃	47	45	mg/L
Turbidity	1.3	0.3	NTU
Volume purged	2.6	4.1	well volumes
Sampling code			
Synchronous water level	151.3 (09/29/94)	151.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	16	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	JY3			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	7.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	4.6	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	450	1	Y			0	WA	530	1				0	GE	µg/L
pH	7.0	1	JY3			0	WA	7.0	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<44	1	JY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 76B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.7E-01	1	UI			0	GP	6.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.9E+00	1	J3			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	7.4E-01	1	UI			0	GP								pCi/L
Americium-241	-2.9E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.6E+00	1	UI			0	GP								pCi/L
Cobalt-60	4.6E-02	1	UI			0	GP								pCi/L
Curium-242	-2.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	-4.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.8E-01	1	UI			0	GP								pCi/L
Plutonium-238	1.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.1E+00	1	J3			0	GP								pCi/L
Radium-226	6.2E-01	1	UI			0	GP								pCi/L
Radium-228	9.5E-01	1	UI			0	GP								pCi/L
Strontium-89	6.0E-02	1	UI			0	GP								pCi/L
Strontium-90	2.6E-01	1	UI			0	GP								pCi/L
Technetium-99	-9.2E+00	1	UI			0	GP								pCi/L
Thorium-228	2.6E-01	1	UI			0	GP								pCi/L
Thorium-230	2.0E+00	1				0	GP								pCi/L
Thorium-232	-8.7E-03	1	UI			0	GP								pCi/L
Thorium-234	3.1E+01	1	UI			0	GP								pCi/L
Tritium	7.0E-01	1	J3			0	GP	4.0E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	8.8E-02	1	UI			0	GP								pCi/L
Uranium-235	3.9E-02	1	UI			0	GP								pCi/L
Uranium-238	3.9E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.2E-04					0									pCi/L
Nickel-63	4.6E-02					0									pCi/L
Plutonium-241	4.5E+00					0									pCi/L
Plutonium-242	2.3E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 76C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N76112.4 E51396.4	33.277970 °N 81.679309 °W	165.3-154.8 ft msl	293.6 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/08/94

11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	212.6	212.3	ft msl
pH	5.8	5.9	pH
Sp. conductance	50	46	µS/cm
Water temperature	19.9	17.7	°C
Alkalinity as CaCO ₃	11	9	mg/L
Turbidity	1	0.3	NTU
Volume purged	3.5	5.2	well volumes
Sampling code			
Synchronous water level	212.3 (09/29/94)	211.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	2.8	1	Y			1	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,200	5	J			0	WA	1,300	1				0	GE	µg/L
pH	6.1	1	JY3	■	●	0	WA	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 76C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	-2.2E-02	1	UIY			0	GP	2.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	6.3E-01	1	UI			0	GP	5.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	3.7E+00	1	Y			0	GP	3.1E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 77

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75129.4 E50713.1	33.274681 °N 81.679198 °W	216.4-186.4 ft msl	273.3 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/01/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	212.2	211.8	ft msl
pH	3.3	3.6	pH
Sp. conductance	482	565	µS/cm
Water temperature	23	20	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	1.1	0.3	NTU
Volume purged	2.5	2.3	well volumes
Sampling code			
Synchronous water level	211.9 (09/28/94)	211.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	4.4	1				1	WA	3.2	1	J			1	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	7.3	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	1.3	1				1	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	1.3	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	20,000	1		■		2	WA								µg/L
Nitrate as nitrogen	47,000	100		■		2	WA	56,000	40		■		2	GE	µg/L
pH	3.6	1	J3	■	●	1	WA	3.6	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 77 (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.1E+02	1		■		2	GP	9.7E+02	1		■		2	GP	pCi/L
Nonvolatile beta	8.8E+02	1		■		2	GP	1.1E+03	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.0E+03	1		■		2	GP	2.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 78

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74764.0 E50164.7	33.272978 °N 81.679932 °W	217.7-187.7 ft msl	272.6 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/01/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	208.4	208.0	ft msl
pH	3	3.4	pH
Sp. conductance	1,490	1,275	µS/cm
Water temperature	22.5	21	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2.4	0.3	NTU
Volume purged	3.2	2.9	well volumes
Sampling code			
Synchronous water level	207.9 (09/29/94)	207.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	18	1		■		2	WA	21	1		■		2	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.21	1				0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	1.1	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	50,000	1		■		2	WA								µg/L
Nitrate as nitrogen	170,000	200		■		2	WA	140,000	160		■		2	GE	µg/L
pH	3.2	1	J3	■	●	1	WA	3.3	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 78 (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.8E+02	1	Y	■		2	GP	1.9E+03	1		■		2	GP	pCi/L
Nonvolatile beta	2.6E+03	1	Y	■		2	GP	3.1E+03	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	9.8E+03	1	Y	■		2	GP	7.9E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 78A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74757.7 E50172.8	33.272977 °N 81.679898 °W	37.5-27.0 ft msl	272.6 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 08/01/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	155.9	155.9	ft msl
pH	6.4	6.7	pH
Sp. conductance	104	108	µS/cm
Water temperature	20.4	19.7	°C
Alkalinity as CaCO ₃	34	33	mg/L
Turbidity	0.9	0.5	NTU
Volume purged	2.6	2.6	well volumes
Sampling code			
Synchronous water level	155.6 (09/29/94)	155.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1				0	WA								µg/L
Nitrate as nitrogen	270	1				0	WA	400	1				0	GE	µg/L
pH	6.6	1	J3	■	●	0	WA	6.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 78A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.2E-01	1	UI			0	GP	6.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.7E+00	1	J3			0	GP	5.2E+00	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium								1.7E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 78B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74765.9 E50178.8	33.273005 °N 81.679898 °W	92.8-82.4 ft msl	272.8 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	08/01/94	11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	154.5	154.4	ft msl
pH	7.1	7.7	pH
Sp. conductance	215	265	µS/cm
Water temperature	20.2	19.7	°C
Alkalinity as CaCO ₃	69	62	mg/L
Turbidity	1	0.2	NTU
Volume purged	3.3	3.0	well volumes
Sampling code			
Synchronous water level	154.0 (09/29/94)	154.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	33	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	43	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<49	1	JVY2			0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	7,100	10	Y			1	WA	11,000	10				2	GE	µg/L
pH	7.4	1	JY3			0	WA	7.6	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 78B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.6E-01	1	UI			0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	4.3E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.3E+00	1	UI			0	GP								pCi/L
Americium-241	7.2E-02	1	UI			0	GP								pCi/L
Cesium-137	1.8E+00	1	UI			0	GP								pCi/L
Cobalt-60	7.3E-01	1	UI			0	GP								pCi/L
Curium-242	1.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	-4.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	-4.3E-03	1	UI			0	GP								pCi/L
Iodine-129	3.4E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	1.8E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	2.8E+00	1				0	GP								pCi/L
Radium-226	7.0E+00	1				0	GP								pCi/L
Radium-228	-7.6E-01	1	UI			0	GP								pCi/L
Strontium-89	-8.0E-01	1	UI			0	GP								pCi/L
Strontium-90	8.7E-01	1	UI			0	GP								pCi/L
Technetium-99	-2.5E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	5.0E-02	1	UI			0	GP								pCi/L
Thorium-232	1.7E-02	1	UI			0	GP								pCi/L
Thorium-234	2.3E+01	1	UI			0	GP								pCi/L
Tritium	2.0E+02	1		■		2	GP	3.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.8E-01	1	UI			0	GP								pCi/L
Uranium-235	1.4E-02	1	UI			0	GP								pCi/L
Uranium-238	1.4E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.4E-04					0									pCi/L
Nickel-63	7.3E-01					0									pCi/L
Plutonium-241	1.1E+01					0									pCi/L
Plutonium-242	5.5E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 78C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74772.5 E50170.2	33.273006 °N 81.679934 °W	151.4-141.6 ft msl	273.5 ft msl	4" PVC	V	Barnwell (IIB.)

SAMPLE DATE 08/02/94

11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	207.5	207.3	ft msl
pH	3.9	4.1	pH
Sp. conductance	1,830	1,855	µS/cm
Water temperature	20.9	18.6	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	0.9	0.3	NTU
Volume purged	1.0	1.1	well volumes
Sampling code	X	X	
Synchronous water level	207.0 (09/29/94)	207.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	560	1	Y			0	WA								µg/L
Cadmium, total recoverable	17	1	Y	■		2	WA	<20	10				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	6.2	1	Y			0	WA	4.5	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	2.8	1	JY3			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	290	1	Y	■		2	WA								µg/L
Copper, total recoverable	11	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	120	1	Y	■		2	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	560	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	16,000	1	JY3	■		2	WA								µg/L
Nitrate as nitrogen	250,000	500	Y	■		2	WA	240,000	400		■		2	GE	µg/L
pH	4.7	1	JY3	■	●	0	WA	4.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	J1		●	0	GE								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 78C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.6E+01	1		■		2	GP	2.2E+02	1		■		2	GP	pCi/L
Nonvolatile beta	9.0E+02	1		■		2	GP	1.5E+03	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228	1.4E+01	1	UI			0	GP								pCi/L
Americium-241	5.7E-01	1	UI			0	GP								pCi/L
Cesium-137	-6.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.1E+00	1	UI			0	GP								pCi/L
Curium-242	1.8E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.4E-01	1	UI			0	GP								pCi/L
Curium-245/246	-9.6E-02	1	UI			0	GP								pCi/L
Iodine-129	1.5E+02	1		■		2	GP								pCi/L
Plutonium-238	2.4E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	2.7E+00	1				0	GP								pCi/L
Radium-226	3.9E+01	1		■		2	GP								pCi/L
Radium-228	1.1E+01	1				1	GP								pCi/L
Strontium-89	-9.7E+01	1	UI			0	GP								pCi/L
Strontium-90	5.1E+02	1		■		2	GP								pCi/L
Technetium-99	2.6E+02	1				0	GP								pCi/L
Thorium-228	6.2E-01	1	UI			0	GP								pCi/L
Thorium-230	2.8E-01	1	UI			0	GP								pCi/L
Thorium-232	2.9E-02	1	UI			0	GP								pCi/L
Thorium-234	3.9E+01	1	UI			0	GP								pCi/L
Tritium	8.9E+03	1		■		2	GP	8.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234	5.4E+01	1		■		2	GP								pCi/L
Uranium-235	2.4E+00	1				0	GP								pCi/L
Uranium-238	6.0E+01	1		■		2	GP								pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	7.1E-04					0									pCi/L
Nickel-63	4.1E+00					0									pCi/L
Plutonium-241	1.1E+01					0									pCi/L
Plutonium-242	5.5E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 79

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73663.1 E50139.7	33.270502 °N 81.677859 °W	204.1-174.1 ft msl	217.8 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/10/94 11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	201.4	201.7	ft msl
pH	3.1	2.8	pH
Sp. conductance	1,480	1,972	µS/cm
Water temperature	20.9	20	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.8	0.6	NTU
Volume purged	2.2	2.4	well volumes
Sampling code			
Synchronous water level	201.2 (09/28/94)	201.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	3.0	1	Y			1	WA	2.9	1	J			1	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.74	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	JY		•	0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	46,000	1	JY3	■		2	WA								µg/L
Nitrate as nitrogen	98,000	200	J	■		2	WA	220,000	160		■		2	GE	µg/L
pH	3.6	1	JY3	■	•	1	WA	3.5	1	J1	■	•	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

• = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 79 (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.0E+02	1		■		2	GP	1.3E+03	1		■		2	GP	pCi/L
Nonvolatile beta	5.4E+02	1		■		2	GP	9.0E+02	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	7.8E+03	1		■		2	GP	1.1E+04	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 79A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73664.5 E50149.6	33.270522 °N 81.677836 °W	34.4-24.0 ft msl	218.1 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 08/10/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	157.5	157.8	ft msl
pH	6.2	5.5	pH
Sp. conductance	83	80	µS/cm
Water temperature	20.5	19.4	°C
Alkalinity as CaCO ₃	15	8	mg/L
Turbidity	0.7	0.7	NTU
Volume purged	3.4	4.3	well volumes
Sampling code			
Synchronous water level	157.5 (09/28/94)	157.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	11	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	310	1	J			0	WA	250	1				0	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	6.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 79A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.8E-02	1	UI			0	GP	2.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	2.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.0E+01	1				1	GP	8.5E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 79B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73666.1 E50159.2	33.270541 °N 81.677813 °W	91.2-80.7 ft msl	218.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	08/10/94	11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	158.1	158.2	ft msl
pH	7	6.2	pH
Sp. conductance	164	166	µS/cm
Water temperature	19.6	19.2	°C
Alkalinity as CaCO ₃	52	57	mg/L
Turbidity	0.8	0.2	NTU
Volume purged	3.7	5.9	well volumes
Sampling code			
Synchronous water level	157.8 (09/28/94)	158.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	GE	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	GE								µg/L
Tetrachloroethylene	<1.0	1				0	GE								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	GE								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	1,300	1	Y			0	GE	1,300	1				0	GE	µg/L
pH	7.1	1	JY1		●	0	GE	7.1	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 79B (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.9E+00	1				0	TM	8.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	4.0E+00	1				0	TM	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.7E+01	1			■	2	TM	1.7E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 79C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73668.0 E50171.3	33.270565 °N 81.677785 °W	159.6-149.8 ft msl	218.4 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/10/94

11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	196.3	196.4	ft msl
pH	3.8	3.7	pH
Sp. conductance	1,088	1,105	µS/cm
Water temperature	19	19.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.3	0.3	NTU
Volume purged	2.7	2.4	well volumes
Sampling code			
Synchronous water level	195.6 (09/28/94)	196.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	480	1	Y			0	WA								µg/L
Cadmium, total recoverable	27	1	Y	■		2	WA	18	1		■		2	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	7.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.61	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	130	1	Y	■		2	WA								µg/L
Copper, total recoverable	89	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	34	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	120	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	38,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	110,000	500	J	■		2	WA	130,000	160		■		2	GE	µg/L
pH	3.7	1	JY3	■	●	1	WA	3.7	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 79C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.1E+02	1		■		2	GP	6.3E+02	1		■		2	GP	pCi/L
Nonvolatile beta	2.3E+03	1		■		2	GP	2.4E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.3E+00	1	UI			0	GP								pCi/L
Americium-241	2.1E+01	1		■		2	GP								pCi/L
Cesium-137	1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	7.5E+00	1	UI			0	GP								pCi/L
Curium-242	1.6E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.0E+01	1		■		2	GP								pCi/L
Curium-245/246	1.7E-01	1	UI			0	GP								pCi/L
Iodine-129	6.9E+01	1		■		2	GP								pCi/L
Plutonium-238	3.8E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	4.6E-01	1	UI			0	GP								pCi/L
Radium-226	4.2E+01	1		■		2	GP								pCi/L
Radium-228	9.7E+00	1				0	GP								pCi/L
Strontium-89	1.6E+02	1		■		2	GP								pCi/L
Strontium-90	6.8E+02	1		■		2	GP								pCi/L
Technetium-99	1.2E+02	1				0	GP								pCi/L
Thorium-228	5.2E-01	1	UI			0	GP								pCi/L
Thorium-230	1.5E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.9E+01	1	UI			0	GP								pCi/L
Tritium	8.8E+03	1		■		2	GP	7.9E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.1E+02	1		■		2	GP								pCi/L
Uranium-235	1.0E+01	1				1	GP								pCi/L
Uranium-238	2.2E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.0E-02					0									pCi/L
Nickel-63	7.5E+00					0									pCi/L
Plutonium-241	1.9E+00					0									pCi/L
Plutonium-242	9.3E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75601.7 E50115.8	33.274751 °N 81.681688 °W	43.6-33.1 ft msl	287.8 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE 08/02/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	153.7	153.8	ft msl
pH	6.2	6.7	pH
Sp. conductance	102	100	µS/cm
Water temperature	20.7	20	°C
Alkalinity as CaCO ₃	31	26	mg/L
Turbidity	0.8	0.8	NTU
Volume purged	2.5	2.6	well volumes
Sampling code			
Synchronous water level	153.6 (09/29/94)	153.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1				0	WA								µg/L
Nitrate as nitrogen	220	1				0	WA	190	1				0	GE	µg/L
pH	6.5	1	J3	■	●	0	WA	6.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.1E+00	1	UI			0	GP	9.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	4.3E+00	1				0	GP	4.1E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75597.0 E50104.9	33.274722 °N 81.681708 °W	100.5-90.0 ft msl	287.5 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	08/02/94	11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	150.5	150.6	ft msl
pH	5.6	6	pH
Sp. conductance	82	80	µS/cm
Water temperature	20.8	20	°C
Alkalinity as CaCO ₃	4	5	mg/L
Turbidity	1.2	1.1	NTU
Volume purged	3.7	3.9	well volumes
Sampling code			
Synchronous water level	150.4 (09/29/94)	150.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	23	1				0	WA								µg/L
Nitrate as nitrogen	5,200	10				1	WA	5,500	4				1	GE	µg/L
pH	6.2	1	J3	■	●	0	WA	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87B (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.3E-01	1	UI			0	GP	2.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	4.7E+00	1				0	GP	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	8.6E+01	1		■		2	GP	8.8E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 87C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75591.9 E50093.4	33.274692 °N 81.681728 °W	159.3-148.8 ft msl	287.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/02/94	11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	210.7	208.3	ft msl
pH	5.5	6	pH
Sp. conductance	93	88	µS/cm
Water temperature	20.8	20	°C
Alkalinity as CaCO ₃	7	6	mg/L
Turbidity	0.8	0.3	NTU
Volume purged	4.2	3.3	well volumes
Sampling code			
Synchronous water level	208.4 (09/29/94)	208.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	6.7	1	Y			0	WA	5.8	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	71,000	100	Y	■		2	WA	6,900	10				1	GE	µg/L
pH	4.1	1	JY3	■	●	0	WA	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.2E-01	1	UI			0	GP	1.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.3E+00	1	J3			0	GP	5.1E+00	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	5.6E+02	1		■		2	GP	4.9E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75586.3 E50081.1	33.274660 °N 81.681749 °W	216.8-187.4 ft msl	287.3 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/04/94

11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation			ft msl
pH	4.3	4.7	pH
Sp. conductance	62	56	µS/cm
Water temperature	23	22.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.7	0.3	NTU
Volume purged			well volumes
Sampling code			
Synchronous water level	(09/29/94)	(12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	JY			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	4.2	1	J			0	WA								
Mercury, total recoverable	<0.20	1	Y			0	WA	5.7	1				0	GE	µg/L
Selenium, total recoverable															µg/L
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	460	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	330	1	Y			0	WA	2,900	4				0	GE	µg/L
pH	4.6	1	JY3	■	●	0	WA	4.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 87D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	8.9E+01	1		■		2	GP	7.0E+01	1		■		2	GP	pCi/L
Nonvolatile beta	6.0E+01	1		■		2	GP	4.1E+01	1				1	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	4.6E+01	1		■		2	GP	3.2E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 88C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75619.4 E51518.0	33.277078 °N 81.678031 °W	168.4-158.4 ft msl	283 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/03/94 11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	212.4	212.1	ft msl
pH	5.3	4.9	pH
Sp. conductance	52	47	µS/cm
Water temperature	19.9	19.6	°C
Alkalinity as CaCO ₃	7	5	mg/L
Turbidity	0.6	0.2	NTU
Volume purged	3.8	4.0	well volumes
Sampling code			
Synchronous water level	212.1 (09/28/94)	211.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable	11	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<3.0	1				0	GE	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	<2.0	1				0	GE								µg/L
Silver, total recoverable	<2.0	1				0	GE								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<2.0	1	J			0	GE								µg/L
Benzene	<1.0	1				0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	<4.0	1				0	GE								µg/L
Cyanide	<5.0	1				0	GE								µg/L
Nickel, total recoverable	<4.0	1				0	GE								µg/L
Phenols	<5.0	1				0	GE								µg/L
Tetrachloroethylene	4.0	1				1	GE								µg/L
Thallium, total recoverable	<2.0	1				0	GE								µg/L
Trichloroethylene	<1.0	1				0	GE								µg/L
Trichlorofluoromethane	4.7	1				0	GE								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	26	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	2,500	5	Y			0	WA	1,900	1				0	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.9	1				0	GE								µg/L
Dichloromethane	<1.0	1				0	GE								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 88C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.0E-01	1	UI			0	TM	2.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.6E+00	1	J1			0	TM	1.7E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN								pCi/L
Americium-241	2.7E-02	1	UI			0	GP								pCi/L
Cesium-137	0.0E+00	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN								pCi/L
Curium-242	1.4E-02	1	UI			0	CN								pCi/L
Curium-243/244	3.2E-03	1	UI			0	GP								pCi/L
Curium-245/246	3.2E-01	1				0	CN								pCi/L
Iodine-129	-2.2E-01	1	UI			0	CN								pCi/L
Plutonium-238	-2.6E-02	1	UI			0	CN								pCi/L
Plutonium-239/240	1.1E+00	1	J3			0	GP								pCi/L
Radium-226	9.8E-01	1	J			0	CN								pCi/L
Radium-228	6.4E-01	1				0	CN								pCi/L
Strontium-89	-2.0E-01	1	UI			0	CN								pCi/L
Strontium-90	3.3E-01	1	UIV			0	CN								pCi/L
Technetium-99	1.7E+00	1	UI			0	CN								pCi/L
Thorium-228	3.5E-01	1				0	CN								pCi/L
Thorium-230	2.0E-01	1	V			0	CN								pCi/L
Thorium-232	-3.6E-02	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN								pCi/L
Tritium	2.5E+01	1		■		2	GP	2.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.8E-02	1	UI			0	GP								pCi/L
Uranium-235	-2.1E-02	1	UI			0	CN								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.6E-06					0									pCi/L
Nickel-63	0.0E+00					0									pCi/L
Plutonium-241	4.5E+00					0									pCi/L
Plutonium-242	2.2E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 88D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75621.8 E51527.0	33.277098 °N 81.678012 °W	222.1-202.1 ft msl	282.4 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE	08/02/94	11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	215.4	215.8	ft msl
pH	3.4	3.2	pH
Sp. conductance	1,010	807	µS/cm
Water temperature	21.9	20.3	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.8	2.9	NTU
Volume purged	3.5	2.5	well volumes
Sampling code	X	X	
Synchronous water level	215.9 (09/28/94)	215.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	260	1	Y			0	WA								µg/L
Cadmium, total recoverable	4.5	1	Y			1	WA	2.9	1	J			1	GE	µg/L
Chromium, total recoverable	10	1	Y			0	WA								µg/L
Lead, total recoverable	20	1	Y			0	WA	14	1				0	GE	µg/L
Mercury, total recoverable	18	10	Y	■		2	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	22	1	Y			1	WA								µg/L
Copper, total recoverable	36	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	36	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	110	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	39,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	110,000	200	Y	■		2	WA	99,000	80		■		2	GE	µg/L
pH	3.8	1	JY3	■	●	1	WA	3.9	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	9.6	1	Y	■		2	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 88D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.2E+02	1		■		2	GP	9.5E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.5E+03	1		■		2	GP	1.3E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.1E+01	1	UI			0	GP								pCi/L
Americium-241	5.4E+01	1		■		2	GP								pCi/L
Cesium-137	2.2E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.1E+01	1	J			0	GP								pCi/L
Curium-242	-1.1E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.9E+02	1		■		2	GP								pCi/L
Curium-245/246	1.2E+00	1	J			0	GP								pCi/L
Iodine-129	1.9E+02	1		■		2	GP								pCi/L
Plutonium-238	1.4E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-9.1E-03	1	UI			0	GP								pCi/L
Radium-226	6.2E-01	1	UI			0	GP								pCi/L
Radium-228	2.1E+01	1		■		2	GP								pCi/L
Strontium-89	-1.8E+01	1	UI			0	GP								pCi/L
Strontium-90	6.4E+02	1		■		2	GP								pCi/L
Technetium-99	7.7E+01	1	J			0	GP								pCi/L
Thorium-228	1.0E+00	1	J			0	GP								pCi/L
Thorium-230	1.8E-01	1	UI			0	GP								pCi/L
Thorium-232	-5.9E-04	1	UI			0	GP								pCi/L
Thorium-234	2.2E+02	1	UI			0	GP								pCi/L
Tritium	4.1E+03	1		■		2	GP	3.0E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.0E+02	1		■		2	GP								pCi/L
Uranium-235	1.8E+01	1		■		2	GP								pCi/L
Uranium-238	3.9E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	5.7E-01					0									pCi/L
Nickel-63	1.1E+01					0									pCi/L
Plutonium-241	-3.7E-02					0									pCi/L
Plutonium-242	-1.8E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 89C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75553.2 E51345.2	33.276650 °N 81.678357 °W	166.1-156.1 ft msl	281.3 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/02/94 11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	211.8	211.4	ft msl
pH	5.4	6	pH
Sp. conductance	55	55	µS/cm
Water temperature	20.5	19.5	°C
Alkalinity as CaCO ₃	5	10	mg/L
Turbidity	1.1	0.5	NTU
Volume purged	4.5	2.9	well volumes
Sampling code			
Synchronous water level	211.5 (09/28/94)	211.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable	11	1				0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	WA								µg/L
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable	<2.0	1				0	WA								µg/L
Silver, total recoverable	<2.0	1				0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1				0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1				0	WA								µg/L
Copper, total recoverable	<4.0	1				0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	<4.0	1				0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	1.2	1	J3			0	WA								µg/L
Thallium, total recoverable	<2.0	1				0	WA								µg/L
Trichloroethylene	1.3	1	J3			0	WA								µg/L
Trichlorofluoromethane	3.1	1	J			0	WA								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	15	1				0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	55	1				2	WA								µg/L
Nitrate as nitrogen	1,600	5				0	WA	1,800	1				0	GE	µg/L
pH	6.0	1	J3			0	WA	6.0	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.7	1				0	GE								µg/L
Dichloromethane	<5.0	1				0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 89C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.4E-01	1	UI			0	GP	4.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	4.5E-01	1	UI			0	GP	9.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.2E+00	1	UI			0	GP								pCi/L
Americium-241	2.6E-01	1	UI			0	GP								pCi/L
Cesium-137	-4.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	-9.2E-01	1	UI			0	GP								pCi/L
Curium-242	-1.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	-5.3E-04	1	UI			0	GP								pCi/L
Curium-245/246	1.4E-02	1	UI			0	GP								pCi/L
Iodine-129	4.5E+00	1				2	GP								pCi/L
Plutonium-238	1.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	7.8E-01	1	UI			0	GP								pCi/L
Radium-226	3.5E+00	1				0	GP								pCi/L
Radium-228	-2.0E-01	1	UI			0	GP								pCi/L
Strontium-89	-4.8E-01	1	UI			0	GP								pCi/L
Strontium-90	3.8E-01	1	UI			0	GP								pCi/L
Technetium-99	-9.1E+00	1	UI			0	GP								pCi/L
Thorium-228	5.5E-02	1	UI			0	GP								pCi/L
Thorium-230	1.4E+00	1	J3			0	GP								pCi/L
Thorium-232	1.5E-02	1	UI			0	GP								pCi/L
Thorium-234	7.3E+01	1	UI			0	GP								pCi/L
Tritium	2.0E+01	1				1	GP	1.8E+01	1				1	GP	pCi/mL
Uranium-233/234	1.6E-02	1	UI			0	GP								pCi/L
Uranium-235	4.4E-02	1	UI			0	GP								pCi/L
Uranium-238	3.7E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.6E-06					0									pCi/L
Nickel-63	-9.2E-01					0									pCi/L
Plutonium-241	3.1E+00					0									pCi/L
Plutonium-242	1.6E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 89D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75548.3 E51335.8	33.276623 °N 81.678372 °W	221.9-201.9 ft msl	281.2 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/04/94 11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	215.5	214.9	ft msl
pH	3.6	4	pH
Sp. conductance	916	1,580	µS/cm
Water temperature	21.7	20.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	3.9	0.4	NTU
Volume purged	5.1	2.8	well volumes
Sampling code			
Synchronous water level	215.1 (09/28/94)	214.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	130	1	Y			0	WA								µg/L
Cadmium, total recoverable	10	1	Y	■		2	WA	22	1		■		2	GE	µg/L
Chromium, total recoverable	15	1	Y			0	WA								µg/L
Lead, total recoverable	8.7	1	Y			0	WA	15	1				0	GE	µg/L
Mercury, total recoverable	2.2	1	Y	■		2	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	26	1	Y			1	WA								µg/L
Copper, total recoverable	29	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	28	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	44	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	17,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	110,000	200	Y	■		2	WA	190,000	160		■		2	GE	µg/L
pH	4.2	1	JY3	■	●	0	WA	4.0	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	6.1	1	Y	■		2	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 89D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.6E+02	1		■		2	GP	4.5E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.7E+03	1		■		2	GP	3.5E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.1E+01	1	UI			0	GP								pCi/L
Americium-241	1.6E+01	1		■		2	GP								pCi/L
Cesium-137	9.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	5.3E+00	1	UI			0	GP								pCi/L
Curium-242	-5.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.0E+01	1		■		2	GP								pCi/L
Curium-245/246	3.2E-01	1	UI			0	GP								pCi/L
Iodine-129	5.1E+02	1		■		2	GP								pCi/L
Plutonium-238	1.7E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.8E+00	1				0	GP								pCi/L
Radium-226	1.4E+01	1				1	GP								pCi/L
Radium-228	1.9E+01	1				1	GP								pCi/L
Strontium-89	1.2E+02	1		■		2	GP								pCi/L
Strontium-90	9.4E+02	1		■		2	GP								pCi/L
Technetium-99	1.2E+02	1				0	GP								pCi/L
Thorium-228	7.5E-01	1	UI			0	GP								pCi/L
Thorium-230	1.8E+00	1				0	GP								pCi/L
Thorium-232	-5.1E-02	1	UI			0	GP								pCi/L
Thorium-234	9.9E+01	1	UI			0	GP								pCi/L
Tritium	4.0E+03	1		■		2	GP	6.4E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.4E+02	1		■		2	GP								pCi/L
Uranium-235	7.3E+00	1				1	GP								pCi/L
Uranium-238	1.7E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.1E-02					0									pCi/L
Nickel-63	5.3E+00					0									pCi/L
Plutonium-241	1.5E+01					0									pCi/L
Plutonium-242	7.6E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 90C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75382.9 E51148.6	33.275952 °N 81.678544 °W	168.1-158.1 ft msl	278.4 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/03/94 11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	210.5	210.2	ft msl
pH	6	6.4	pH
Sp. conductance	185	186	µS/cm
Water temperature	20.4	20	°C
Alkalinity as CaCO ₃	20	22	mg/L
Turbidity	0.9	0.6	NTU
Volume purged	3.2	2.7	well volumes
Sampling code			
Synchronous water level	210.1 (09/28/94)	210.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	45	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	5.5	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	1.3	1	JY			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	1.2	1	JY3			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	21	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	12,000	25	Y	■		2	WA	13,000	10		■		2	GE	µg/L
pH	6.6	1	JY3	■	●	0	WA	6.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	2.5	1	JY3			1	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 90C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.6E+00	1	J3			0	GP	6.3E+00	1				0	TM	pCi/L
Nonvolatile beta	1.7E+01	1				0	GP	3.9E+01	1				1	TM	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.7E+00	1	UI			0	GP								pCi/L
Americium-241	8.8E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	4.3E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-9.6E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.8E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	5.0E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.0E+00	1				0	GP								pCi/L
Radium-226	2.6E+00	1				0	GP								pCi/L
Radium-228	6.9E-01	1	UI			0	GP								pCi/L
Strontium-89	4.0E-02	1	UI			0	GP								pCi/L
Strontium-90	3.4E+00	1				0	GP								pCi/L
Technetium-99	2.1E+01	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.7E+00	1				0	GP								pCi/L
Thorium-232	-9.0E-03	1	UI			0	GP								pCi/L
Thorium-234	6.5E+00	1	UI			0	GP								pCi/L
Tritium	6.2E+02	1		■		2	GP	1.1E+03	1		■		2	TM	pCi/mL
Uranium-233/234	1.1E-01	1	UI			0	GP								pCi/L
Uranium-235	-7.4E-03	1	UI			0	GP								pCi/L
Uranium-238	3.6E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.9E-05					0									pCi/L
Nickel-63	4.3E-01					0									pCi/L
Plutonium-241	1.2E+01					0									pCi/L
Plutonium-242	6.0E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 90D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75376.9 E51140.7	33.275926 °N 81.678553 °W	225.1-205.1 ft msl	278.6 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE	08/04/94	11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation		215.7	ft msl
pH	3.5	4	pH
Sp. conductance	850	553	µS/cm
Water temperature	21.8	23.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2.7	1.2	NTU
Volume purged		2.6	well volumes
Sampling code	X		
Synchronous water level	215.7 (09/28/94)	215.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	220	1	Y			0	WA								µg/L
Cadmium, total recoverable	9.3	1	Y			2	WA	3.5	1				1	GE	µg/L
Chromium, total recoverable	5.1	1	Y			0	WA								µg/L
Lead, total recoverable	80	3	Y	■		2	WA	21	1				0	GE	µg/L
Mercury, total recoverable	10	1	Y	■		2	WA								µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	JY3			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	16	1	Y			0	WA								µg/L
Copper, total recoverable	93	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	24	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	110	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	35,000	1	JY3	■		2	WA								µg/L
Nitrate as nitrogen	110,000	200	Y	■		2	WA	59,000	40		■		2	GE	µg/L
pH	3.2	1	JY3	■	●	1	WA	4.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.9	1	Y			0	GE								µg/L
Dichloromethane	<30	1	JY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 90D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.0E+02	1		■		2	GP	4.7E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.4E+03	1		■		2	GP	7.1E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.7E+01	1	UI			0	GP								pCi/L
Americium-241	2.1E+01	1		■		2	GP								pCi/L
Cesium-137	4.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	7.4E+00	1	UI			0	GP								pCi/L
Curium-242	2.4E-01	1	UI			0	GP								pCi/L
Curium-243/244	8.9E+00	1		■		2	GP								pCi/L
Curium-245/246	1.1E+00	1	J			0	GP								pCi/L
Iodine-129	2.3E+02	1		■		2	GP								pCi/L
Plutonium-238	5.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-6.4E-03	1	UI			0	GP								pCi/L
Radium-226	7.4E+00	1				0	GP								pCi/L
Radium-228	3.4E+01	1		■		2	GP								pCi/L
Strontium-89	-2.0E+01	1	UI			0	GP								pCi/L
Strontium-90	5.7E+02	1		■		2	GP								pCi/L
Technetium-99	1.2E+02	1				0	GP								pCi/L
Thorium-228	1.4E+00	1	J			0	GP								pCi/L
Thorium-230	6.9E-01	1	UI			0	GP								pCi/L
Thorium-232	2.8E-02	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	8.1E+03	1		■		2	GP	3.0E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.7E+02	1		■		2	GP								pCi/L
Uranium-235	2.2E+01	1		■		2	GP								pCi/L
Uranium-238	4.2E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.7E-02					0									pCi/L
Nickel-63	7.4E+00					0									pCi/L
Plutonium-241	-2.6E-02					0									pCi/L
Plutonium-242	-1.3E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 91C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75213.3 E50953.5	33.275259 °N 81.678728 °W	159.1-149.1 ft msl	279.3 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/04/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	210.4		ft msl
pH			pH
Sp. conductance			µS/cm
Water temperature			°C
Alkalinity as CaCO ₃			mg/L
Turbidity			NTU
Volume purged	0.22		well volumes
Sampling code	P	P	
Synchronous water level	210.1 (09/28/94)	209.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable															
Barium, total recoverable															
Cadmium, total recoverable															
Chromium, total recoverable															
Lead, total recoverable															
Mercury, total recoverable															
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols															
Tetrachloroethylene															
Thallium, total recoverable															
Trichloroethylene															
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable															
Nitrate as nitrogen															
pH															

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 91C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha															
Nonvolatile beta															

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium															
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 91D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75207.6 E50946.6	33.275235 °N 81.678735 °W	220.9-200.9 ft msl	279.2 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/03/94 11/18/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	216.0	213.8	ft msl
pH	3.5	3.7	pH
Sp. conductance	259	252	µS/cm
Water temperature	22	20.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	4.4	4.8	NTU
Volume purged	2.0	3.3	well volumes
Sampling code			
Synchronous water level	213.0 (09/28/94)	214.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	63	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	3.4	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	12	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.3	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	18	1	VY			0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	10,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	19,000	50	Y	■		2	WA	22,000	20		■		2	GE	µg/L
pH	3.8	1	JY3	■	●	1	WA	3.7	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	1.5	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 91D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E+02	1	Y	■		2	GP	2.0E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.5E+02	1	Y	■		2	GP	1.8E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.3E+01	1	UI			0	GP								pCi/L
Americium-241	3.2E+00	1				1	GP								pCi/L
Cesium-137	-3.5E-01	1	UI			0	GP								pCi/L
Cobalt-60	-1.4E+00	1	UI			0	GP								pCi/L
Curium-242	-2.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.2E+00	1				0	GP								pCi/L
Curium-245/246	4.0E-01	1	UI			0	GP								pCi/L
Iodine-129	3.0E+01	1		■		2	GP								pCi/L
Plutonium-238	2.2E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	4.4E-01	1	UI			0	GP								pCi/L
Radium-226	4.1E+00	1				0	GP								pCi/L
Radium-228	1.7E+00	1				0	GP								pCi/L
Strontium-89	-4.7E+00	1	UI			0	GP								pCi/L
Strontium-90	3.3E+01	1		■		2	GP								pCi/L
Technetium-99	1.4E+01	1	UI			0	GP								pCi/L
Thorium-228	4.7E-01	1	UI			0	GP								pCi/L
Thorium-230	1.3E+00	1	J3			0	GP								pCi/L
Thorium-232	2.1E-02	1	UI			0	GP								pCi/L
Thorium-234	2.9E+01	1	UI			0	GP								pCi/L
Tritium	3.5E+02	1	Y	■		2	GP	1.3E+03	1		■		2	GP	pCi/mL
Uranium-233/234	9.2E+01	1		■		2	GP								pCi/L
Uranium-235	5.3E+00	1				0	GP								pCi/L
Uranium-238	1.4E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.5E-03					0									pCi/L
Nickel-63	-1.4E+00					0									pCi/L
Plutonium-241	1.8E+00					0									pCi/L
Plutonium-242	8.9E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 92C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75053.2 E50564.0	33.274269 °N 81.679442 °W	157.6-147.6 ft msl	275.7 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/03/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	209.3	208.9	ft msl
pH	5.1	5.5	pH
Sp. conductance	435	445	µS/cm
Water temperature	22.1	21.6	°C
Alkalinity as CaCO ₃	1	6	mg/L
Turbidity	2	0.3	NTU
Volume purged	2.0	2.2	well volumes
Sampling code			
Synchronous water level	208.9 (09/28/94)	208.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	140	1	Y			0	WA								µg/L
Cadmium, total recoverable	5.8	1	Y			2	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	29	1	Y			1	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	23	1	Y	■		0	WA								µg/L
Nickel, total recoverable	12	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	4.1	1	JY3			1	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	53	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	870	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	45,000	100	Y	■		2	WA	49,000	40		■		2	GE	µg/L
pH	5.4	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	1.3	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 92C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.2E+01	1	Y	■		2	GP	5.2E+01	1		■		2	GP	pCi/L
Nonvolatile beta	4.1E+02	1	Y	■		2	GP	4.0E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.1E+00	1	UI			0	GP								pCi/L
Americium-241	5.6E-02	1	UI			0	GP								pCi/L
Cesium-137	5.2E-02	1	UI			0	GP								pCi/L
Cobalt-60	2.8E+00	1	UI			0	GP								pCi/L
Curium-242	-5.4E-03	1	UI			0	GP								pCi/L
Curium-243/244	-1.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.1E+01	1		■		2	GP								pCi/L
Plutonium-238	1.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	5.8E-01	1	UI			0	GP								pCi/L
Radium-226	1.9E+01	1				1	GP								pCi/L
Radium-228	3.5E+00	1				0	GP								pCi/L
Strontium-89	2.4E+01	1		■		2	GP								pCi/L
Strontium-90	1.3E+02	1		■		2	GP								pCi/L
Technetium-99	5.6E+01	1	J3			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.0E+00	1	UI3			0	GP								pCi/L
Thorium-232	1.4E-02	1	UI			0	GP								pCi/L
Thorium-234	5.3E+01	1	UI			0	GP								pCi/L
Tritium	2.1E+03	1	Y	■		2	GP	1.9E+03	1		■		2	GP	pCi/L
Uranium-233/234	5.6E-01	1	UI			0	GP								pCi/L
Uranium-235	5.7E-02	1	UI			0	GP								pCi/L
Uranium-238	4.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.4E-05					0									pCi/L
Nickel-63	2.8E+00					0									pCi/L
Plutonium-241	2.3E+00					0									pCi/L
Plutonium-242	1.2E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 92D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75045.8 E50557.6	33.274242 °N 81.679445 °W	221.7-201.7 ft msl	275.9 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/03/94 11/18/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	211.5	210.9	ft msl
pH	3.1	3.6	pH
Sp. conductance	1,250	1,237	µS/cm
Water temperature	22.1	21.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.1	0.1	NTU
Volume purged	2.3	3.3	well volumes
Sampling code			
Synchronous water level	211.1 (09/28/94)	210.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	310	1	Y			0	WA								µg/L
Cadmium, total recoverable	19	1	Y	■		2	WA	16	1		■		2	GE	µg/L
Chromium, total recoverable	4.0	1	Y			0	WA								µg/L
Lead, total recoverable	29	1	Y			1	WA	3.3	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	13	1	Y			0	WA								µg/L
Copper, total recoverable	57	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	24	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	96	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	55,000	1	JY3	■		2	WA								µg/L
Nitrate as nitrogen	140,000	200	Y	■		2	WA	150,000	160		■		2	GE	µg/L
pH	3.5	1	JY3	■	●	1	WA	3.5	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 92D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.9E+02	1		■		2	GP	6.2E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.4E+03	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.3E+01	1	J			0	GP								pCi/L
Americium-241	8.2E+00	1		■		2	GP								pCi/L
Cesium-137	3.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	5.0E+00	1	UI			0	GP								pCi/L
Curium-242	1.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	9.3E+00	1		■		2	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.5E+02	1		■		2	GP								pCi/L
Plutonium-238	9.7E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	3.4E-01	1	UI			0	GP								pCi/L
Radium-226	6.9E+01	1		■		2	GP								pCi/L
Radium-228	3.5E+01	1		■		2	GP								pCi/L
Strontium-89	-5.9E+01	1	UI			0	GP								pCi/L
Strontium-90	6.1E+02	1		■		2	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	1.1E+00	1	J			0	GP								pCi/L
Thorium-230	2.1E-01	1	UI			0	GP								pCi/L
Thorium-232	2.2E-02	1	UI			0	GP								pCi/L
Thorium-234	2.3E+01	1	UI			0	GP								pCi/L
Tritium	9.7E+03	1		■		2	GP	9.9E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.6E+02	1		■		2	GP								pCi/L
Uranium-235	7.0E+00	1				0	GP								pCi/L
Uranium-238	2.1E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.8E-02					0									pCi/L
Nickel-63	5.0E+00					0									pCi/L
Plutonium-241	1.4E+00					0									pCi/L
Plutonium-242	6.9E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 93C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74897.3 E50458.3	33.273752 °N 81.679418 °W	152.0-142.0 ft msl	276.2 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/04/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	208.6	208.1	ft msl
pH	4.9	4.8	pH
Sp. conductance	358	375	µS/cm
Water temperature	20.3	19.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.7	0.3	NTU
Volume purged	4.3	4.1	well volumes
Sampling code			
Synchronous water level	208.1 (09/28/94)	208.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable	58	1				0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	WA								µg/L
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable	<2.0	1				0	WA								µg/L
Silver, total recoverable	<2.0	1				0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1				0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1				0	WA								µg/L
Copper, total recoverable	<4.0	1				0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	7.4	1				0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<5.0	1				0	WA								µg/L
Thallium, total recoverable	<2.0	1				0	WA								µg/L
Trichloroethylene	1.7	1	J3			0	WA								µg/L
Trichlorofluoromethane	2.1	1	J3			0	WA								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	81	1				0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	39	1				1	WA								µg/L
Nitrate as nitrogen	40,000	100				2	WA	44,000	40				2	GE	µg/L
pH	4.4	1	J3			0	WA	5.0	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<30	1	JV2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 93C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E+00	1				0	GP	5.9E+00	1				0	GP	pCi/L
Nonvolatile beta	3.2E+01	1				1	GP	4.3E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.3E+00	1	UI			0	GP								pCi/L
Americium-241	5.6E-02	1	UI			0	GP								pCi/L
Cesium-137	3.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	-7.4E-01	1	UI			0	GP								pCi/L
Curium-242	1.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	-5.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.8E+01	1		■		2	GP								pCi/L
Plutonium-238	1.0E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.8E+00	1				0	GP								pCi/L
Radium-226	2.6E+00	1				0	GP								pCi/L
Radium-228	-6.6E-01	1	UI			0	GP								pCi/L
Strontium-89	1.4E-01	1	UI			0	GP								pCi/L
Strontium-90	4.1E+00	1				1	GP								pCi/L
Technetium-99	5.7E+01	1	J3			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.6E+00	1	J3			0	GP								pCi/L
Thorium-232	5.1E-02	1	UI			0	GP								pCi/L
Thorium-234	9.6E-01	1	UI			0	GP								pCi/L
Tritium	1.6E+03	1		■		2	GP	1.6E+03	1		■		2	GP	pCi/mL
Uranium-233/234	5.5E-02	1	UI			0	GP								pCi/L
Uranium-235	-6.2E-03	1	UI			0	GP								pCi/L
Uranium-238	5.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.6E-04					0									pCi/L
Nickel-63	-7.4E-01					0									pCi/L
Plutonium-241	7.1E+00					0									pCi/L
Plutonium-242	3.5E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 93D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74888.5 E50452.4	33.273723 °N 81.679416 °W	217.9-197.9 ft msl	276.1 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/04/94 11/18/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	210.1	209.6	ft msl
pH	3.7	3.7	pH
Sp. conductance	873	1,072	µS/cm
Water temperature	23.1	20.4	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2.8	1.2	NTU
Volume purged	0.62	0.65	well volumes
Sampling code	X	X	
Synchronous water level	209.8 (09/28/94)	209.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	330	1	Y			0	WA								µg/L
Cadmium, total recoverable	16	1	Y	■		2	WA	13	1		■		2	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	9.0	1	Y			0	WA	11	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	12	1	Y			0	WA								µg/L
Copper, total recoverable	49	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	16	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	64	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	35,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	110,000	200	Y	■		2	WA	120,000	160		■		2	GE	µg/L
pH	3.2	1	JY3	■	●	1	WA	3.7	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<9.9	1	Y			0	GE								µg/L
Dichloromethane	<30	1	JVY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 93D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+02	1		■		2	GP	2.7E+02	1		■		2	GP	pCi/L
Nonvolatile beta	2.5E+03	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.7E+01	1	UI			0	GP								pCi/L
Americium-241	6.9E+00	1		■		2	GP								pCi/L
Cesium-137	-1.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	-6.1E-04	1	UI			0	GP								pCi/L
Curium-242	8.3E-01	1	UI			0	GP								pCi/L
Curium-243/244	4.6E+00	1				1	GP								pCi/L
Curium-245/246	-9.4E-02	1	UI			0	GP								pCi/L
Iodine-129	1.2E+02	1		■		2	GP								pCi/L
Plutonium-238	4.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.9E-02	1	UI			0	GP								pCi/L
Radium-226	1.7E+01	1				1	GP								pCi/L
Radium-228	2.3E+01	1		■		2	GP								pCi/L
Strontium-89	4.7E+02	1		■		2	GP								pCi/L
Strontium-90	9.5E+02	1		■		2	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	7.2E-01	1	UI			0	GP								pCi/L
Thorium-230	2.9E-01	1	UI			0	GP								pCi/L
Thorium-232	2.0E-02	1	UI			0	GP								pCi/L
Thorium-234	1.3E+02	1	UI			0	GP								pCi/L
Tritium	1.1E+04	1		■		2	GP	1.1E+04	1		■		2	GP	pCi/mL
Uranium-233/234	5.1E+01	1		■		2	GP								pCi/L
Uranium-235	3.3E+00	1				0	GP								pCi/L
Uranium-238	7.9E+01	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.4E-02					0									pCi/L
Nickel-63	-6.1E-04					0									pCi/L
Plutonium-241	-7.5E-02					0									pCi/L
Plutonium-242	-3.7E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 94C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74869.0 E50180.0	33.273235 °N 81.680096 °W	149.8-139.8 ft msl	281.1 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/10/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	207.5	207.2	ft msl
pH	4	4.1	pH
Sp. conductance	1,990	2,040	µS/cm
Water temperature	19.5	20.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	7.1	3.5	NTU
Volume purged	0.63	0.63	well volumes
Sampling code	X	X	
Synchronous water level	207.1 (09/29/94)	207.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	610	1	Y			0	WA								µg/L
Cadmium, total recoverable	25	1	Y	■		0	WA	24	10	J	■		2	GE	µg/L
Chromium, total recoverable	5.7	1	Y			0	WA								µg/L
Lead, total recoverable	8.7	1	Y			0	WA	5.5	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	670	1	Y	■		2	WA								µg/L
Copper, total recoverable	61	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	180	1	Y	■		2	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	330	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	50,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	240,000	500	J	■		2	WA	280,000	400		■		2	GE	µg/L
pH	4.3	1	JY3	■	●	0	WA	4.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 94C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.2E+01	1		■		2	GP	6.4E+01	1		■		2	GP	pCi/L
Nonvolatile beta	2.4E+03	1		■		2	GP	2.3E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.7E+01	1	J			0	GP								pCi/L
Americium-241	9.9E-02	1	UI			0	GP								pCi/L
Cesium-137	7.4E+00	1	UI			0	GP								pCi/L
Cobalt-60	3.0E+00	1	UI			0	GP								pCi/L
Curium-242	3.1E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.5E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129															pCi/L
Plutonium-238	3.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-8.5E-03	1	UI			0	GP								pCi/L
Radium-226	4.9E+01	1		■		2	GP								pCi/L
Radium-228	2.4E+01	1		■		2	GP								pCi/L
Strontium-89	-2.4E+01	1	UI			0	GP								pCi/L
Strontium-90	3.5E+02	1		■		2	GP								pCi/L
Technetium-99	2.0E+02	1				0	GP								pCi/L
Thorium-228	1.1E+00	1	J			0	GP								pCi/L
Thorium-230	5.7E-01	1	UI			0	GP								pCi/L
Thorium-232	6.8E-02	1	UI			0	GP								pCi/L
Thorium-234	1.4E+02	1	UI			0	GP								pCi/L
Tritium	1.1E+04	1		■		2	GP	1.0E+04	1		■		2	GP	pCi/mL
Uranium-233/234	1.8E+01	1		■		2	GP								pCi/L
Uranium-235	5.4E-01	1	UI			0	GP								pCi/L
Uranium-238	1.6E+01	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.5E-04					0									pCi/L
Nickel-63	3.0E+00					0									pCi/L
Plutonium-241	-3.4E-02					0									pCi/L
Plutonium-242	-1.7E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 94DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74869.1 E50162.9	33.273207 °N 81.680141 °W	203.4-183.3 ft msl	280.5 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/05/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	209.2	208.7	ft msl
pH	3	3.3	pH
Sp. conductance	1,650	1,542	µS/cm
Water temperature	21.6	20.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.3	0.3	NTU
Volume purged	4.8	10	well volumes
Sampling code			
Synchronous water level	208.8 (09/29/94)	208.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	910	1	Y			0	WA								µg/L
Cadmium, total recoverable	5.2	1	Y			2	WA	5.2	1				2	WA	µg/L
Chromium, total recoverable	6.9	1	Y			0	WA								µg/L
Lead, total recoverable	5.7	1	Y			0	WA	7.5	1				0	WA	µg/L
Mercury, total recoverable	0.50	1	JY3			0	WA								µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	JY3			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	49	1	Y			2	WA								µg/L
Copper, total recoverable	96	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	JY3		●	0	WA								µg/L
Nickel, total recoverable	43	1	Y			0	WA								µg/L
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	4.2	1	JY			1	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<6.0	2	Y			0	WA								µg/L
Zinc, total recoverable	140	1	JY3	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	81,000	1	JY3	■		2	WA								µg/L
Nitrate as nitrogen	170,000	200	Y	■		2	WA	1,700,000	1000		■		2	GE	µg/L
pH	3.2	1	JY3	■	●	1	WA	3.1	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<30	1	JY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 94DR (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E+03	1		■		2	GP	1.1E+04	1		■		2	TM	pCi/L
Nonvolatile beta	2.1E+03	1		■		2	GP	2.3E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.7E+01	1	J			0	GP								pCi/L
Americium-241	1.1E+02	1		■		2	GP								pCi/L
Cesium-137	3.1E+02	1		■		2	GP								pCi/L
Cobalt-60	1.5E+00	1	UI			0	GP								pCi/L
Curium-242	1.0E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.0E+02	1		■		2	GP								pCi/L
Curium-245/246	3.8E+00	1				1	GP								pCi/L
Iodine-129	1.6E+02	1		■		2	GP								pCi/L
Plutonium-238	8.7E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	5.9E-02	1	UI			0	GP								pCi/L
Radium-226	1.4E+01	1				1	GP								pCi/L
Radium-228	5.6E+01	1		■		2	GP								pCi/L
Strontium-89	-3.1E+01	1	UI			0	GP								pCi/L
Strontium-90	4.0E+02	1		■		2	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	2.6E+00	1				0	GP								pCi/L
Thorium-230	-9.7E-03	1	UI			0	GP								pCi/L
Thorium-232	2.7E-02	1	UI			0	GP								pCi/L
Thorium-234	4.4E+02	1	J	■		2	GP								pCi/L
Tritium	1.3E+04	1		■		2	GP	1.9E+04	1	J1	■		2	TM	pCi/mL
Uranium-233/234	6.0E+02	1		■		2	GP								pCi/L
Uranium-235	2.7E+01	1		■		2	GP								pCi/L
Uranium-238	1.1E+03	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.0E-01					0									pCi/L
Nickel-63	1.5E+00					0									pCi/L
Plutonium-241	2.4E-01					0									pCi/L
Plutonium-242	1.2E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 95CR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75001.9 E49987.8	33.273215 °N 81.680860 °W	161.9-151.9 ft msl	284 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/05/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	207.0	206.6	ft msl
pH	3.7	4.1	pH
Sp. conductance	1,830	1,811	µS/cm
Water temperature	21	20.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1	0.9	NTU
Volume purged	7.5	3.3	well volumes
Sampling code			
Synchronous water level	206.6 (09/29/94)	206.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	970	1	Y			0	WA								µg/L
Cadmium, total recoverable	19	1	Y	■		2	WA	<20	10				0	GE	µg/L
Chromium, total recoverable	6.2	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.77	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	510	1	Y	■		2	WA								µg/L
Copper, total recoverable	50	1	Y			0	WA								µg/L
Cyanide	<5.0	1	JY3		●	0	WA								µg/L
Nickel, total recoverable	100	1	Y	■		2	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	330	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	50,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	230,000	500	Y	■		2	WA	2,400,000	2000		■		2	GE	µg/L
pH	4.0	1	JY3	■	●	1	WA	4.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<44	1	JVY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 95CR (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.6E+02	1		■		2	GP	1.3E+03	1		■		2	GP	pCi/L
Nonvolatile beta	2.4E+03	1		■		2	GP	2.4E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.0E+01	1	UI			0	GP								pCi/L
Americium-241	1.1E+01	1		■		2	GP								pCi/L
Cesium-137	2.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	6.2E+00	1	UI			0	GP								pCi/L
Curium-242	-5.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.8E+01	1		■		2	GP								pCi/L
Curium-245/246	7.1E-01	1	UI			0	GP								pCi/L
Iodine-129	2.0E+02	1		■		2	GP								pCi/L
Plutonium-238	2.6E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.5E-01	1	UI			0	GP								pCi/L
Radium-226	7.9E+01	1		■		2	GP								pCi/L
Radium-228	1.9E+01	1				1	GP								pCi/L
Strontium-89	6.2E+01	1		■		2	GP								pCi/L
Strontium-90	7.0E+02	1		■		2	GP								pCi/L
Technetium-99	2.7E+02	1				0	GP								pCi/L
Thorium-228	1.0E+00	1	J			0	GP								pCi/L
Thorium-230	1.1E-01	1	UI			0	GP								pCi/L
Thorium-232	2.2E-02	1	UI			0	GP								pCi/L
Thorium-234	2.2E+02	1	UI			0	GP								pCi/L
Tritium	1.1E+04	1		■		2	GP	1.1E+04	1		■		2	GP	pCi/mL
Uranium-233/234	3.6E+02	1		■		2	GP								pCi/L
Uranium-235	2.1E+01	1		■		2	GP								pCi/L
Uranium-238	4.0E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	5.4E-02					0									pCi/L
Nickel-63	6.2E+00					0									pCi/L
Plutonium-241	6.0E-01					0									pCi/L
Plutonium-242	3.0E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 95DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74991.7 E49996.0	33.273206 °N 81.680818 °W	207.0-187.0 ft msl	284.1 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/05/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	209.3	208.7	ft msl
pH	3.1	3.4	pH
Sp. conductance	2,200	1,910	µS/cm
Water temperature	21.1	20.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.7	0.3	NTU
Volume purged	22	7.3	well volumes
Sampling code			
Synchronous water level	208.9 (09/29/94)	208.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	500	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	3.0	1	J			1	GE	µg/L
Chromium, total recoverable	4.6	1	Y			0	WA								µg/L
Lead, total recoverable	27	1	Y			1	WA	24	1				0	GE	µg/L
Mercury, total recoverable	1.1	1	Y			1	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	44	1	Y			2	WA								µg/L
Copper, total recoverable	67	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	JY3		●	0	WA								µg/L
Nickel, total recoverable	35	1	Y			0	WA								µg/L
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<6.0	2	Y			0	WA								µg/L
Zinc, total recoverable	97	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	70,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	260,000	500	J	■		2	WA	2,300,000	2000		■		2	GE	µg/L
pH	3.2	1	JY3	■	●	1	WA	3.2	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<30	1	JY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 95DR (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+03	1		■		2	GP	2.4E+03	1		■		2	GP	pCi/L
Nonvolatile beta	1.5E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.0E+01	1				0	GP								pCi/L
Americium-241	1.2E+02	1		■		2	GP								pCi/L
Cesium-137	5.1E+02	1		■		2	GP								pCi/L
Cobalt-60	1.4E+00	1	UI			0	GP								pCi/L
Curium-242	2.5E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.0E+02	1		■		2	GP								pCi/L
Curium-245/246	1.9E+00	1				0	GP								pCi/L
Iodine-129	2.1E+02	1		■		2	GP								pCi/L
Plutonium-238	3.9E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	5.7E-02	1	UI			0	GP								pCi/L
Radium-226	8.6E+00	1				0	GP								pCi/L
Radium-228	4.6E+01	1		■		2	GP								pCi/L
Strontium-89	-3.9E+00	1	UI			0	GP								pCi/L
Strontium-90	1.8E+02	1		■		2	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	2.2E+00	1				0	GP								pCi/L
Thorium-230	4.8E-02	1	UI			0	GP								pCi/L
Thorium-232	2.3E-02	1	UI			0	GP								pCi/L
Thorium-234	4.6E+02	1	J	■		2	GP								pCi/L
Tritium	1.5E+04	1		■		2	GP	1.1E+04	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	5.6E+02	1		■		2	GP								pCi/L
Uranium-235	3.7E+01	1		■		2	GP								pCi/L
Uranium-238	1.6E+03	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.1E-01					0									pCi/L
Nickel-63	1.4E+00					0									pCi/L
Plutonium-241	2.3E-01					0									pCi/L
Plutonium-242	1.1E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 96AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74914.9 E49746.6	33.272629 °N 81.681326 °W	89.0-79.0 ft msl	281.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/09/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	152.8	153.0	ft msl
pH	7.2	7.4	pH
Sp. conductance	170	173	µS/cm
Water temperature	21	20.7	°C
Alkalinity as CaCO ₃	71	60	mg/L
Turbidity	0.6	0.2	NTU
Volume purged	3.3	3.3	well volumes
Sampling code			
Synchronous water level	152.6 (09/29/94)	152.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable	32	1				0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	WA								µg/L
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable	<2.0	1				0	WA								µg/L
Silver, total recoverable	<2.0	1				0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1				0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1				0	WA								µg/L
Copper, total recoverable	<4.0	1				0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	<4.0	1				0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<5.0	1				0	WA								µg/L
Thallium, total recoverable	<2.0	1				0	WA								µg/L
Trichloroethylene	<5.0	1				0	WA								µg/L
Trichlorofluoromethane	<5.0	1				0	WA								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	3.6	1				0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	WA								µg/L
Nitrate as nitrogen	430	1				0	WA	460	1				0	GE	µg/L
pH	7.3	1	J3			0	WA	7.6	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<35	1	JV2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 96AR (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.0E+00	1	UI			0	GP	5.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	9.1E-01	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.2E+00	1	UI			0	GP								pCi/L
Americium-241	-1.4E-02	1	UI			0	GP								pCi/L
Cesium-137	-3.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	5.7E-01	1	UI			0	GP								pCi/L
Curium-242	-1.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	-7.0E-03	1	UI			0	GP								pCi/L
Iodine-129	-7.2E-01	1	UI			0	GP								pCi/L
Plutonium-238	-2.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.4E-01	1	UI			0	GP								pCi/L
Radium-226	5.7E-01	1	UI			0	GP								pCi/L
Radium-228	1.7E+00	1				0	GP								pCi/L
Strontium-89	-1.5E-01	1	UI			0	GP								pCi/L
Strontium-90	2.5E-01	1	UI			0	GP								pCi/L
Technetium-99	-5.9E-01	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	6.1E-02	1	UI			0	GP								pCi/L
Thorium-232	4.7E-03	1	UI			0	GP								pCi/L
Thorium-234	2.2E+01	1	UI			0	GP								pCi/L
Tritium	4.5E+01	1		■		2	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234	7.4E-02	1	UI			0	GP								pCi/L
Uranium-235	9.2E-03	1	UI			0	GP								pCi/L
Uranium-238	3.7E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	5.9E-05					0									pCi/L
Nickel-63	5.7E-01					0									pCi/L
Plutonium-241	5.4E-01					0									pCi/L
Plutonium-242	2.7E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 97A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75171.2 E49965.7	33.273554 °N 81.681247 °W	95.8-85.8 ft msl	286.1 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/11/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	151.8	151.9	ft msl
pH	7.1	7	pH
Sp. conductance	251	225	µS/cm
Water temperature	20.7	20.2	°C
Alkalinity as CaCO ₃	65	73	mg/L
Turbidity	1	1.5	NTU
Volume purged	3.3	2.5	well volumes
Sampling code			
Synchronous water level	151.7 (09/29/94)	151.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	39	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	11	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	11,000	25	Y	■		2	WA	9,400	10				1	GE	µg/L
pH	7.3	1	JY3		●	0	WA	7.2	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 97A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+00	1	UI			0	GP	1.9E+00	1	J			0	GP	pCi/L
Nonvolatile beta	4.3E+00	1				0	GP	3.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.4E+00	1	UI			0	GP								pCi/L
Americium-241	4.1E-02	1	UI			0	GP								pCi/L
Cesium-137	-6.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	-9.0E-01	1	UI			0	GP								pCi/L
Curium-242	9.1E-03	1	UI			0	GP								pCi/L
Curium-243/244	6.9E-03	1	UI			0	GP								pCi/L
Curium-245/246	-4.6E-03	1	UI			0	GP								pCi/L
Iodine-129	2.6E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	4.0E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	9.7E-03	1	UI			0	GP								pCi/L
Radium-226	2.4E+00	1				0	GP								pCi/L
Radium-228	-9.0E-02	1	UI			0	GP								pCi/L
Strontium-89	7.9E-01	1	UI			0	GP								pCi/L
Strontium-90	7.1E-01	1	UI			0	GP								pCi/L
Technetium-99	8.7E+00	1	UI			0	GP								pCi/L
Thorium-228	1.8E-01	1	UI			0	GP								pCi/L
Thorium-230	4.6E-01	1	UI			0	GP								pCi/L
Thorium-232	3.1E-02	1	UI			0	GP								pCi/L
Thorium-234	6.9E+01	1	UI			0	GP								pCi/L
Tritium	3.4E+02	1		■		2	GP	2.7E+02	1		■		2	GP	pCi/mL
Uranium-233/234	1.9E-01	1	UI			0	GP								pCi/L
Uranium-235	-5.2E-03	1	UI			0	GP								pCi/L
Uranium-238	1.7E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.1E-05					0									pCi/L
Nickel-63	-9.0E-01					0									pCi/L
Plutonium-241	3.9E-02					0									pCi/L
Plutonium-242	1.9E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 97C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75179.6 E49970.6	33.273580 °N 81.681250 °W	153.8-143.8 ft msl	286.1 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/12/94 11/21/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	207.8	207.5	ft msl
pH	4.1	3.5	pH
Sp. conductance	1,930	1,770	µS/cm
Water temperature	22.1	19.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.9	2.2	NTU
Volume purged	0.81	0.89	well volumes
Sampling code	X	X	
Synchronous water level	207.6 (09/29/94)	207.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	2.4	1	Y			0	WA								µg/L
Barium, total recoverable	740	1	Y			0	WA								µg/L
Cadmium, total recoverable	8.1	1	Y			2	WA	3.5	1				1	GE	µg/L
Chromium, total recoverable	<4.0	1	Y3			0	WA								µg/L
Lead, total recoverable	62	1	Y	■		2	WA	160	2		■		2	GE	µg/L
Mercury, total recoverable	<0.20	1	Y3			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y3			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y3			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y3			0	WA								µg/L
Benzene	<5.0	1	Y3			0	WA								µg/L
Cobalt, total recoverable	450	1	Y	■		2	WA								µg/L
Copper, total recoverable	170	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	98	1	Y	■		1	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y3			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y3			0	WA								µg/L
Trichloroethylene	<5.0	1	Y3			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y3			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y3			0	WA								µg/L
Zinc, total recoverable	250	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	110,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	280,000	500	Y	■		2	WA	2,600,000	2000		■		2	GE	µg/L
pH	3.8	1	JY3	■	●	1	WA	3.8	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 97C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.5E+02	1		■		2	GP	1.4E+03	1		■		2	GP	pCi/L
Nonvolatile beta	1.1E+03	1		■		2	GP	1.4E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.9E+01	1	J			0	GP								pCi/L
Americium-241	6.4E+01	1		■		2	GP								pCi/L
Cesium-137	6.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.5E+00	1	UI			0	GP								pCi/L
Curium-242	5.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	5.3E+01	1		■		2	GP								pCi/L
Curium-245/246	3.0E+00	1				0	GP								pCi/L
Iodine-129	8.7E+01	1		■		2	GP								pCi/L
Plutonium-238	3.2E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.7E-01	1	UI			0	GP								pCi/L
Radium-226	9.4E+01	1		■		2	GP								pCi/L
Radium-228	4.9E+01	1		■		2	GP								pCi/L
Strontium-89	-2.2E+02	1	UI			0	GP								pCi/L
Strontium-90	4.8E+02	1		■		2	GP								pCi/L
Technetium-99	1.9E+02	1				0	GP								pCi/L
Thorium-228	2.2E+00	1				0	GP								pCi/L
Thorium-230	3.1E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.2E-02	1	UI			0	GP								pCi/L
Thorium-234	2.3E+02	1	UI			0	GP								pCi/L
Tritium	1.6E+04	1		■		2	GP	1.5E+04	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	4.7E+02	1		■		2	GP								pCi/L
Uranium-235	3.0E+01	1		■		2	GP								pCi/L
Uranium-238	6.4E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.6E-01					0									pCi/L
Nickel-63	4.5E+00					0									pCi/L
Plutonium-241	6.6E-01					0									pCi/L
Plutonium-242	3.3E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 97D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75188.9 E49975.5	33.273609 °N 81.681255 °W	216.9-196.9 ft msl	286 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/12/94

11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	210.8	209.7	ft msl
pH	4.1	3.7	pH
Sp. conductance	1,000	754	µS/cm
Water temperature	22.1	19.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	8	11.8	NTU
Volume purged	1.1	1.2	well volumes
Sampling code	X	X	
Synchronous water level	209.8 (09/29/94)	209.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	1,400	1	Y	■		1	WA								µg/L
Cadmium, total recoverable	4.1	1	Y			1	WA	5.0	1				1	GE	µg/L
Chromium, total recoverable	12	1	Y			0	WA								µg/L
Lead, total recoverable	59	1	Y	■		2	WA	99	1		■		2	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	150	1	Y	■		2	WA								µg/L
Copper, total recoverable	110	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	76	1	Y	■		1	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	190	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	80,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	280,000	500	Y	■		2	WA	2,400,000	2000		■		2	GE	µg/L
pH	3.9	1	JY3	■	●	1	WA	3.8	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 97D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.8E+02	1		■		2	GP	2.9E+03	1		■		2	GP	pCi/L
Nonvolatile beta	1.7E+03	1		■		2	GP	2.5E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.0E+01	1	J			0	GP								pCi/L
Americium-241	6.5E+01	1		■		2	GP								pCi/L
Cesium-137	1.7E+01	1				0	GP								pCi/L
Cobalt-60	1.1E+00	1	UI			0	GP								pCi/L
Curium-242	4.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	6.1E+01	1		■		2	GP								pCi/L
Curium-245/246	9.5E-01	1	UI			0	GP								pCi/L
Iodine-129	1.0E+02	1		■		2	GP								pCi/L
Plutonium-238	6.2E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.8E-02	1	UI			0	GP								pCi/L
Radium-226	1.4E+01	1				1	GP								pCi/L
Radium-228	3.3E+01	1		■		2	GP								pCi/L
Strontium-89	2.3E+02	1		■		2	GP								pCi/L
Strontium-90	3.8E+02	1		■		2	GP								pCi/L
Technetium-99	1.2E+02	1				0	GP								pCi/L
Thorium-228	2.5E+00	1				0	GP								pCi/L
Thorium-230	4.7E-02	1	UI			0	GP								pCi/L
Thorium-232	-3.5E-02	1	UI			0	GP								pCi/L
Thorium-234	3.9E+02	1	J			1	GP								pCi/L
Tritium	1.6E+04	1		■		2	GP	1.3E+04	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	3.9E+02	1		■		2	GP								pCi/L
Uranium-235	2.1E+01	1		■		2	GP								pCi/L
Uranium-238	9.4E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.8E-01					0									pCi/L
Nickel-63	1.1E+00					0									pCi/L
Plutonium-241	7.2E-02					0									pCi/L
Plutonium-242	3.6E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 98AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75362.0 E50105.8	33.274204 °N 81.681249 °W	92.1-82.1 ft msl	284 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/23/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	151.4	151.3	ft msl
pH	7	7.1	pH
Sp. conductance	154	147	µS/cm
Water temperature	20.3	20.2	°C
Alkalinity as CaCO ₃	54	38	mg/L
Turbidity	0.9	0.4	NTU
Volume purged	3.3	5.3	well volumes
Sampling code			
Synchronous water level	151.0 (09/29/94)	151.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable	30	1				0	GE								µg/L
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<3.0	1				0	GE	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	<2.0	1				0	GE								µg/L
Silver, total recoverable	<2.0	1				0	GE								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<2.0	1				0	GE								µg/L
Benzene	<1.0	1				0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	<4.0	1				0	GE								µg/L
Cyanide	<5.0	1	J1		●	0	GE								µg/L
Nickel, total recoverable	<4.0	1				0	GE								µg/L
Phenols	<5.0	1				0	GE								µg/L
Tetrachloroethylene	<1.0	1				0	GE								µg/L
Thallium, total recoverable	<2.0	1				0	GE								µg/L
Trichloroethylene	<1.0	1				0	GE								µg/L
Trichlorofluoromethane	<1.0	1				0	GE								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	15	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	1,700	1				0	GE	1,600	1				0	GE	µg/L
pH	7.3	1	J1		●	0	GE	7.2	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.8	1				0	GE								µg/L
Dichloromethane	<1.0	1				0	GE								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 98AR (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+00	1	J3			0	GP	7.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.0E+00	1				0	TM	2.5E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN								pCi/L
Americium-241	3.2E-02	1	UI			0	GP								pCi/L
Cesium-137	0.0E+00	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN								pCi/L
Curium-242	-1.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.1E-02	1	UI			0	CN								pCi/L
Curium-245/246	3.4E-01	1				0	CN								pCi/L
Iodine-129	-1.6E-01	1	UI			0	CN								pCi/L
Plutonium-238	-5.2E-02	1	UI			0	CN								pCi/L
Plutonium-239/240	3.8E-03	1	UI			0	CN								pCi/L
Radium-226	6.5E-01	1				0	TM								pCi/L
Radium-228	1.3E+00	1				0	CN								pCi/L
Strontium-89	5.0E-02	1	UI			0	GP								pCi/L
Strontium-90	1.9E+00	1				0	CN								pCi/L
Technetium-99	2.9E+01	1				0	CN								pCi/L
Thorium-228	-3.9E-02	1	UI			0	CN								pCi/L
Thorium-230	2.6E-01	1				0	CN								pCi/L
Thorium-232	0.0E+00	1	UI			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN								pCi/L
Tritium	2.5E+01	1		■		2	TM	2.7E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.0E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	0.0E+00	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.3E-05					0									pCi/L
Nickel-63	0.0E+00					0									pCi/L
Plutonium-241	1.5E-02					0									pCi/L
Plutonium-242	7.5E-08					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 98C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75381.2 E50116.5	33.274264 °N 81.681258 °W	158.4-148.4 ft msl	284.5 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/11/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	208.7	208.3	ft msl
pH	3.2	3.4	pH
Sp. conductance	1,670	1,522	µS/cm
Water temperature	20.8	20.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.4	0.4	NTU
Volume purged	1.8	2.3	well volumes
Sampling code			
Synchronous water level	208.4 (09/29/94)	208.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	720	1	Y			0	WA								µg/L
Cadmium, total recoverable	9.6	1	Y			2	WA	2.6	1	J			1	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	520	1	Y	■		2	WA								µg/L
Copper, total recoverable	96	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	70	1	Y	■		1	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	140	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	70,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	200,000	200	Y	■		2	WA	1,700,000	2000		■		2	GE	µg/L
pH	3.5	1	JY3	■	●	1	WA	3.3	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 98C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.2E+02	1		■		2	GP	1.6E+03	1		■		2	GP	pCi/L
Nonvolatile beta	1.3E+03	1		■		2	GP	1.5E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.0E+01	1	UI			0	GP								pCi/L
Americium-241	4.5E+01	1		■		2	GP								pCi/L
Cesium-137	4.4E-03	1	UI			0	GP								pCi/L
Cobalt-60	4.9E+00	1	UI			0	GP								pCi/L
Curium-242	4.4E-01	1	UI			0	GP								pCi/L
Curium-243/244	3.7E+01	1		■		2	GP								pCi/L
Curium-245/246	2.0E+00	1				0	GP								pCi/L
Iodine-129	1.1E+02	1		■		2	GP								pCi/L
Plutonium-238	2.2E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	2.5E-01	1	UI			0	GP								pCi/L
Radium-226	4.9E+01	1		■		2	GP								pCi/L
Radium-228	1.7E+01	1				1	GP								pCi/L
Strontium-89	-2.9E+01	1	UI			0	GP								pCi/L
Strontium-90	3.7E+02	1		■		2	GP								pCi/L
Technetium-99	1.4E+02	1				0	GP								pCi/L
Thorium-228	6.9E-01	1	UI			0	GP								pCi/L
Thorium-230	7.9E-02	1	UI			0	GP								pCi/L
Thorium-232	1.6E-02	1	UI			0	GP								pCi/L
Thorium-234	2.6E+02	1	UI			0	GP								pCi/L
Tritium	1.1E+04	1		■		2	GP	9.4E+03	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	5.5E+02	1		■		2	GP								pCi/L
Uranium-235	2.6E+01	1		■		2	GP								pCi/L
Uranium-238	7.9E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-01					0									pCi/L
Nickel-63	4.9E+00					0									pCi/L
Plutonium-241	1.0E+00					0									pCi/L
Plutonium-242	5.0E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 98D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75371.9 E50111.6	33.274235 °N 81.681253 °W	220.3-200.3 ft msl	284.5 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/12/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	211.5	210.8	ft msl
pH	3.7	3.7	pH
Sp. conductance	884	454	µS/cm
Water temperature	21	23.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	82	1	NTU
Volume purged	1.2	3.5	well volumes
Sampling code	X		
Synchronous water level	211.0 (09/29/94)	210.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	390	1	Y			0	WA								µg/L
Cadmium, total recoverable	14	1	Y	■		2	WA	7.3	1				2	GE	µg/L
Chromium, total recoverable	6.7	1	Y			0	WA								µg/L
Lead, total recoverable	12	1	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<3.0	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	29	1	Y			1	WA								µg/L
Copper, total recoverable	35	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	17	1	Y			0	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	47	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	15,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	91,000	200	Y	■		2	WA	470,000	500		■		2	GE	µg/L
pH	3.7	1	JY3	■	●	1	WA	3.5	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 98D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.9E+02	1		■		2	GP	6.5E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.1E+03	1		■		2	GP	1.1E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.2E+01	1	J			0	GP								pCi/L
Americium-241	2.6E+01	1		■		2	GP								pCi/L
Cesium-137	1.5E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.5E+00	1	UI			0	GP								pCi/L
Curium-242	-9.9E-04	1	UI			0	GP								pCi/L
Curium-243/244	2.6E+01	1		■		2	GP								pCi/L
Curium-245/246	2.9E-01	1	UI			0	GP								pCi/L
Iodine-129	4.5E+01	1		■		2	GP								pCi/L
Plutonium-238	1.2E+00	1	J			0	GP								pCi/L
Plutonium-239/240	1.9E+00	1				0	GP								pCi/L
Radium-226	1.1E+01	1				1	GP								pCi/L
Radium-228	2.5E+01	1		■		2	GP								pCi/L
Strontium-89	-1.1E+01	1	UI			0	GP								pCi/L
Strontium-90	5.0E+02	1		■		2	GP								pCi/L
Technetium-99	5.0E+01	1	J			0	GP								pCi/L
Thorium-228	1.0E+00	1	J			0	GP								pCi/L
Thorium-230	5.1E-01	1	UI			0	GP								pCi/L
Thorium-232	4.5E-02	1	UI			0	GP								pCi/L
Thorium-234	4.7E+02	1	J	■		2	GP								pCi/L
Tritium	5.3E+03	1		■		2	GP	3.6E+03	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	3.9E+02	1		■		2	GP								pCi/L
Uranium-235	2.5E+01	1		■		2	GP								pCi/L
Uranium-238	9.5E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.7E-02					0									pCi/L
Nickel-63	1.5E+00					0									pCi/L
Plutonium-241	7.6E+00					0									pCi/L
Plutonium-242	3.8E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB 99A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75675.6 E50314.8	33.275239 °N 81.681308 °W	102.9-92.9 ft msl	287.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/05/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	150.4	150.4	ft msl
pH	6.8	6.9	pH
Sp. conductance	166	159	µS/cm
Water temperature	20.8	19.8	°C
Alkalinity as CaCO ₃	43	61	mg/L
Turbidity	0.7	0.5	NTU
Volume purged	4.9	5.1	well volumes
Sampling code			
Synchronous water level	150.3 (09/29/94)	150.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable	29	1				0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	WA								µg/L
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable	<2.0	1				0	WA								µg/L
Silver, total recoverable	<2.0	1				0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1				0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1				0	WA								µg/L
Copper, total recoverable	<4.0	1				0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	<4.0	1				0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<5.0	1				0	WA								µg/L
Thallium, total recoverable	<2.0	1				0	WA								µg/L
Trichloroethylene	<5.0	1				0	WA								µg/L
Trichlorofluoromethane	<5.0	1				0	WA								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	4.6	1				0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	WA								µg/L
Nitrate as nitrogen	4,500	25				0	WA	5,100	4				1	GE	µg/L
pH	6.7	1	J3	■	●	0	WA	7.0	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.9	1				0	GE								µg/L
Dichloromethane	<30	1	JV3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 99A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	8.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	1.6E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.6E+00	1	UI			0	GP								pCi/L
Americium-241	1.7E-01	1	UI			0	GP								pCi/L
Cesium-137	3.3E-03	1	UI			0	GP								pCi/L
Cobalt-60	6.8E-01	1	UI			0	GP								pCi/L
Curium-242	-1.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-7.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.4E+00	1	UI			0	GP								pCi/L
Plutonium-238	1.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.1E+00	1				0	GP								pCi/L
Radium-226	1.8E+00	1				0	GP								pCi/L
Radium-228	-3.6E-01	1	UI			0	GP								pCi/L
Strontium-89	1.0E-02	1	UI			0	GP								pCi/L
Strontium-90	2.8E-01	1	UI			0	GP								pCi/L
Technetium-99	3.4E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.9E+00	1				0	GP								pCi/L
Thorium-232	2.4E-02	1	UI			0	GP								pCi/L
Thorium-234	6.2E+01	1	UI			0	GP								pCi/L
Tritium	1.6E+02	1		■		2	GP	1.6E+02	1		■		2	GP	pCi/mL
Uranium-233/234	6.3E-02	1	UI			0	GP								pCi/L
Uranium-235	1.9E-02	1	UI			0	GP								pCi/L
Uranium-238	2.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.2E-04					0									pCi/L
Nickel-63	6.8E-01					0									pCi/L
Plutonium-241	1.2E+01					0									pCi/L
Plutonium-242	6.1E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 99C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75683.7 E50320.6	33.275266 °N 81.681308 °W	167.2-157.2 ft msl	287.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/08/94	11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	209.4	209.1	ft msl
pH	5	5.1	pH
Sp. conductance	301	275	µS/cm
Water temperature	20.5	20	°C
Alkalinity as CaCO ₃	2	6	mg/L
Turbidity	1	0.4	NTU
Volume purged	3.2	3.3	well volumes
Sampling code			
Synchronous water level	209.1 (09/29/94)	208.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	61	1	Y			0	WA								µg/L
Cadmium, total recoverable	3.2	1	Y			1	WA	2.2	1				0	WA	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	3.2	1				0	WA	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	5.4	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	7.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	25	1	Y	■		2	WA								µg/L
Trichlorofluoromethane	1.8	1	JY3			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	25	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	33,000	500	J	■		2	WA	32,000	20		■		2	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<34	1	JY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 99C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.6E+01	1		■		2	GP	4.4E+01	1		■		2	TM	pCi/L
Nonvolatile beta	9.4E+01	1		■		2	GP	1.2E+02	1		■		2	TM	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.3E+00	1	UI			0	GP								pCi/L
Americium-241	2.3E-01	1	UI			0	GP								pCi/L
Cesium-137	-5.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	9.3E-01	1	UI			0	GP								pCi/L
Curium-242	6.0E-02	1	UI			0	GP								pCi/L
Curium-243/244	6.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.6E+01	1		■		2	GP								pCi/L
Plutonium-238	2.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.8E-01	1	UI			0	GP								pCi/L
Radium-226	5.9E+00	1				0	GP								pCi/L
Radium-228	7.9E-01	1	UI			0	GP								pCi/L
Strontium-89	7.6E+00	1				0	GP								pCi/L
Strontium-90	2.4E+01	1		■		2	GP								pCi/L
Technetium-99	4.0E+01	1	J3			0	GP								pCi/L
Thorium-228	2.6E-01	1	UI			0	GP								pCi/L
Thorium-230	7.5E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.3E-01	1	UI			0	GP								pCi/L
Thorium-234	3.4E+01	1	UI			0	GP								pCi/L
Tritium	1.6E+03	1		■		2	GP	2.0E+03	1		■		2	TM	pCi/mL
Uranium-233/234	8.0E+00	1				1	GP								pCi/L
Uranium-235	4.2E-01	1	UI			0	GP								pCi/L
Uranium-238	8.1E+00	1				1	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.9E-04					0									pCi/L
Nickel-63	9.3E-01					0									pCi/L
Plutonium-241	7.3E-01					0									pCi/L
Plutonium-242	3.6E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 99D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75691.7 E50326.9	33.275294 °N 81.681307 °W	218.1-198.1 ft msl	287.6 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/08/94

11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	212.8	212.0	ft msl
pH	4.5	4.5	pH
Sp. conductance	33	36	µS/cm
Water temperature	21.5	19.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.7	0.7	NTU
Volume purged	4.1	8.0	well volumes
Sampling code			
Synchronous water level	212.3 (09/29/94)	211.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	9.3	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	7.3	1	Y			0	WA	3.9	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	4.3	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	10	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	160	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	1,600	10	Y			0	WA	1,900	2				0	GE	µg/L
pH	4.8	1	JY3	■	●	0	WA	4.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<44	1	JY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB 99D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+01	1		■		2	GP	1.5E+01	1				1	GP	pCi/L
Nonvolatile beta	1.7E+01	1				0	GP	1.8E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.6E+00	1	UI			0	GP								pCi/L
Americium-241	2.4E-01	1	UI			0	GP								pCi/L
Cesium-137	-9.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	-9.1E-01	1	UI			0	GP								pCi/L
Curium-242	4.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.8E-01	1	UI			0	GP								pCi/L
Curium-245/246	-5.0E-03	1	UI			0	GP								pCi/L
Iodine-129	6.0E-01	1	UI			0	GP								pCi/L
Plutonium-238	-4.5E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	2.9E-01	1	UI			0	GP								pCi/L
Radium-226	3.2E-01	1	UI			0	GP								pCi/L
Radium-228	-7.5E-01	1	UI			0	GP								pCi/L
Strontium-89	5.8E-01	1	UI			0	GP								pCi/L
Strontium-90	5.1E+00	1				1	GP								pCi/L
Technetium-99	-4.1E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.9E+00	1				0	GP								pCi/L
Thorium-232	1.7E-02	1	UI			0	GP								pCi/L
Thorium-234	2.2E+01	1	UI			0	GP								pCi/L
Tritium	2.8E+01	1		■		2	GP	3.0E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.3E+00	1				0	GP								pCi/L
Uranium-235	2.2E-01	1	UI			0	GP								pCi/L
Uranium-238	9.0E+00	1				1	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-03					0									pCi/L
Nickel-63	-9.1E-01					0									pCi/L
Plutonium-241	1.2E+00					0									pCi/L
Plutonium-242	5.8E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB100A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75534.4 E50958.4	33.275977 °N 81.679339 °W	105.8-95.8 ft msl	286 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/05/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	151.2	151.3	ft msl
pH	6.9	7.2	pH
Sp. conductance	189	176	µS/cm
Water temperature	20.9	20.3	°C
Alkalinity as CaCO ₃	63	65	mg/L
Turbidity	0.7	0.6	NTU
Volume purged	4.2	2.8	well volumes
Sampling code			
Synchronous water level	151.0 (09/29/94)	151.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable	41	1				0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	WA								µg/L
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable	<2.0	1				0	WA								µg/L
Silver, total recoverable	<2.0	1				0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1				0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1				0	WA								µg/L
Copper, total recoverable	<4.0	1				0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	<4.0	1				0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<5.0	1				0	WA								µg/L
Thallium, total recoverable	<2.0	1				0	WA								µg/L
Trichloroethylene	<5.0	1				0	WA								µg/L
Trichlorofluoromethane	<5.0	1				0	WA								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	60	1				0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	WA								µg/L
Nitrate as nitrogen	4,500	25				0	WA	4,800	4				0	GE	µg/L
pH	6.9	1	J3			0	WA	7.4	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<30	1	JV2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB100A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E+00	1	J3			0	GP	9.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.5E+00	1	J3			0	GP	1.6E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.1E-02	1	UI			0	GP								pCi/L
Americium-241	1.1E-01	1	UI			0	GP								pCi/L
Cesium-137	-5.1E-02	1	UI			0	GP								pCi/L
Cobalt-60	4.5E-01	1	UI			0	GP								pCi/L
Curium-242	4.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	8.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	2.2E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	3.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.9E-01	1	UI			0	GP								pCi/L
Radium-226	1.8E-01	1	UI			0	GP								pCi/L
Radium-228	-1.2E+00	1	UI			0	GP								pCi/L
Strontium-89	-8.9E-01	1	UI			0	GP								pCi/L
Strontium-90	8.7E-01	1	UI			0	GP								pCi/L
Technetium-99	-2.1E-01	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.5E+00	1	J3			0	GP								pCi/L
Thorium-232	1.8E-01	1	UI			0	GP								pCi/L
Thorium-234	1.8E+02	1	UI			0	GP								pCi/L
Tritium	1.3E+02	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.0E-01	1	UI			0	GP								pCi/L
Uranium-235	1.1E-02	1	UI			0	GP								pCi/L
Uranium-238	1.8E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.5E-04					0									pCi/L
Nickel-63	4.5E-01					0									pCi/L
Plutonium-241	7.4E-01					0									pCi/L
Plutonium-242	3.7E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB101A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75719.0 E51191.3	33.276765 °N 81.679085 °W	102.9-92.9 ft msl	285.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/09/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	151.4	151.6	ft msl
pH	7.3	7.2	pH
Sp. conductance	163	153	µS/cm
Water temperature	19.9	19.5	°C
Alkalinity as CaCO ₃	60	63	mg/L
Turbidity	0.8	1.1	NTU
Volume purged	4.3	2.8	well volumes
Sampling code			
Synchronous water level	151.3 (09/29/94)	151.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	28	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<5.0	1				0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1				0	WA								µg/L
Trichlorofluoromethane	<5.0	1				0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<2.0	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,400	5	J			0	WA	1,600	1	Y			0	GE	µg/L
pH	7.3	1	J3		●	0	WA	7.4	1	JY1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	V			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB101A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.8E-01	1	J3			0	GP	5.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.4E+00	1				0	GP	3.3E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-1.9E-01	1	UI			0	GP								pCi/L
Americium-241	-6.1E-03	1	UI			0	GP								pCi/L
Cesium-137	2.4E+01	1				0	GP								pCi/L
Cobalt-60	4.7E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-6.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-9.2E-02	1	UI			0	GP								pCi/L
Plutonium-238	1.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.1E-01	1	UI			0	GP								pCi/L
Radium-226	6.5E-01	1	UI			0	GP								pCi/L
Radium-228	-7.3E-01	1	UI			0	GP								pCi/L
Strontium-89	1.3E+00	1	UI			0	GP								pCi/L
Strontium-90	9.5E-01	1	UI			0	GP								pCi/L
Technetium-99	-4.1E+00	1	UI			0	GP								pCi/L
Thorium-228	7.6E-02	1	UI			0	GP								pCi/L
Thorium-230	1.8E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.2E-01	1	UI			0	GP								pCi/L
Thorium-234	5.8E+01	1	UI			0	GP								pCi/L
Tritium	4.2E-01	1	UI			0	GP	3.7E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	2.1E-01	1	UI			0	GP								pCi/L
Uranium-235	2.1E-02	1	UI			0	GP								pCi/L
Uranium-238	2.6E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.8E-04					0									pCi/L
Nickel-63	4.7E-01					0									pCi/L
Plutonium-241	4.3E-01					0									pCi/L
Plutonium-242	2.2E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB102C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73582.9 E50834.8	33.271459 °N 81.675873 °W	155.9-145.9 ft msl	201.1 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/17/94 11/18/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	195.0	195.0	ft msl
pH	4.3	4.4	pH
Sp. conductance	284	297	µS/cm
Water temperature	18.6	18.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.6	0.5	NTU
Volume purged	1.9	2.0	well volumes
Sampling code			
Synchronous water level	194.6 (09/28/94)	195.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	4.8	1				1	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.55	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	1.2	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	3,300	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	31,000	200	Y	■		2	WA	35,000	40		■		2	GE	µg/L
pH	4.2	1	JY3	■	●	0	WA	4.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB102C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	5.4E+00	1				0	GP	7.4E+00	1				0	GP	pCi/L
Nonvolatile beta	4.1E+02	1		■		2	GP	4.2E+02	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	8.5E+02	1		■		2	GP	9.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB103C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74210.0 E49651.3	33.270915 °N 81.680207 °W	157.1-147.1 ft msl	242.4 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/09/94	11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	201.9	201.9	ft msl
pH	5.6	5.8	pH
Sp. conductance	238	226	µS/cm
Water temperature	20.7	20	°C
Alkalinity as CaCO ₃	5	9	mg/L
Turbidity	0.8	0.4	NTU
Volume purged	2.4	2.3	well volumes
Sampling code			
Synchronous water level	201.2 (09/29/94)	201.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	34	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	3.1	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	9.9	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	J			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	74	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	22,000	200	J	■		2	WA	25,000	20		■		2	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB103C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	1.8E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.1E+01	1				0	GP	1.0E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.5E-01	1	UI			0	GP								pCi/L
Americium-241	6.7E-02	1	UI			0	GP								pCi/L
Cesium-137	4.3E+00	1	J			0	GP								pCi/L
Cobalt-60	4.4E-01	1	UI			0	GP								pCi/L
Curium-242	-3.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	4.7E-02	1	UI			0	GP								pCi/L
Curium-245/246	-1.0E-02	1	UI			0	GP								pCi/L
Iodine-129	4.5E+00	1		■		2	GP								pCi/L
Plutonium-238	1.6E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	5.4E-01	1	UI			0	GP								pCi/L
Radium-226	6.7E-01	1	UI			0	GP								pCi/L
Radium-228	-7.7E-01	1	UI			0	GP								pCi/L
Strontium-89	2.9E+00	1	J3			0	GP								pCi/L
Strontium-90	2.4E+00	1	J3			0	GP								pCi/L
Technetium-99	3.5E+01	1	J3			0	GP								pCi/L
Thorium-228	1.6E-01	1	UI			0	GP								pCi/L
Thorium-230	5.2E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.8E-02	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	6.5E+02	1		■		2	GP	6.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234	-2.1E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	7.2E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.4E-04					0									pCi/L
Nickel-63	4.4E-01					0									pCi/L
Plutonium-241	2.2E+00					0									pCi/L
Plutonium-242	1.1E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB104C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73872.6 E49248.6	33.269511 °N 81.680612 °W	160.7-150.7 ft msl	219.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/15/94 11/21/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	200.3	200.5	ft msl
pH	4.9	5	pH
Sp. conductance	435	433	µS/cm
Water temperature	19.8	19	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.7	0.5	NTU
Volume purged	4.1	3.6	well volumes
Sampling code			
Synchronous water level	199.8 (09/29/94)	200.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	VY			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	64	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	49,000	200	Y	■		2	WA	49,000	40		■		2	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB104C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.5E+00	1				0	GP	2.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.0E+01	1				1	GP	2.9E+01	1				1	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.3E+03	1		■		2	GP	1.3E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB104D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73865.2 E49255.4	33.269506 °N 81.680579 °W	210.4-190.4 ft msl	219.2 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/15/94 11/21/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	203.7	204.0	ft msl
pH	3.4	3.6	pH
Sp. conductance	954	951	µS/cm
Water temperature	20.4	20.1	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.3	0.3	NTU
Volume purged		4.3	well volumes
Sampling code			
Synchronous water level	203.6 (09/29/94)	203.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	230	1	Y			0	WA								µg/L
Cadmium, total recoverable	5.7	1	Y			2	WA	4.9	1				1	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	54	1	Y			2	WA								µg/L
Copper, total recoverable	43	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	26	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	57	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	47,000	1	Y			2	WA								µg/L
Nitrate as nitrogen	100,000	500	Y			2	WA	1,000,000	1000				2	GE	µg/L
pH	3.6	1	JY3			1	WA	3.6	1	J1			1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB104D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.2E+02	1		■		2	GP	7.6E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.1E+03	1		■		2	GP	1.2E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.3E+01	1	UI			0	GP								pCi/L
Americium-241	1.5E+01	1		■		2	GP								pCi/L
Cesium-137	-1.6E+00	1	UI			0	GP								pCi/L
Cobalt-60	3.9E+00	1	UI			0	GP								pCi/L
Curium-242	-9.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.2E+01	1		■		2	GP								pCi/L
Curium-245/246	2.5E-01	1	UI			0	GP								pCi/L
Iodine-129	6.2E+01	1		■		2	GP								pCi/L
Plutonium-238	1.6E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	6.9E-02	1	UI			0	GP								pCi/L
Radium-226	2.7E+01	1		■		2	GP								pCi/L
Radium-228	2.1E+01	1		■		2	GP								pCi/L
Strontium-89	-3.9E+01	1	UI			0	GP								pCi/L
Strontium-90	8.1E+02	1		■		2	GP								pCi/L
Technetium-99	8.2E+01	1	J			0	GP								pCi/L
Thorium-228	7.4E-01	1	UI			0	GP								pCi/L
Thorium-230	4.0E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.8E+02	1	UI			0	GP								pCi/L
Tritium	6.9E+03	1		■		2	GP	6.6E+03	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	4.5E+01	1	UI			0	GP								pCi/L
Uranium-235	2.0E+01	1		■		2	GP								pCi/L
Uranium-238	4.5E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.7E-02					0									pCi/L
Nickel-63	3.9E+00					0									pCi/L
Plutonium-241	2.7E-01					0									pCi/L
Plutonium-242	1.4E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB105C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75234.2 E49828.0	33.273468 °N 81.681732 °W	151.5-141.5 ft msl	285.8 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE 08/12/94 11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	207.3	206.9	ft msl
pH	3.2	3.3	pH
Sp. conductance	1,440	1,240	µS/cm
Water temperature	21.2	20	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.4	0.4	NTU
Volume purged	1.9	2.0	well volumes
Sampling code			
Synchronous water level	206.9 (09/29/94)	206.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	470	1	Y			0	WA								µg/L
Cadmium, total recoverable	13	1	Y	■		2	WA	5.8	1				2	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	310	1	Y	■		2	WA								µg/L
Copper, total recoverable	71	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	62	1	Y	■		1	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	1.6	1	JY3			0	WA	2.2	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	130	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	65,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	180,000	200	Y	■		2	WA	160,000	160		■		2	GE	µg/L
pH	3.6	1	JY3	■	●	1	WA	3.5	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB105C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.6E+02	1		■		2	GP	8.3E+02	1		■		2	GP	pCi/L
Nonvolatile beta	1.2E+03	1		■		2	GP	1.0E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.3E+01	1	J			0	GP								pCi/L
Americium-241	3.2E+01	1		■		2	GP								pCi/L
Cesium-137	1.4E+00	1	UI			0	GP								pCi/L
Cobalt-60	5.0E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	2.7E+01	1		■		2	GP								pCi/L
Curium-245/246	2.6E+00	1				0	GP								pCi/L
Iodine-129	9.4E+01	1		■		2	GP								pCi/L
Plutonium-238	2.0E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.5E-01	1	UI			0	GP								pCi/L
Radium-226	6.6E+01	1		■		2	GP								pCi/L
Radium-228	2.6E+01	1		■		2	GP								pCi/L
Strontium-89	-8.2E+01	1	UI			0	GP								pCi/L
Strontium-90	5.4E+02	1		■		2	GP								pCi/L
Technetium-99	1.4E+02	1				0	GP								pCi/L
Thorium-228	7.4E-01	1	UI			0	GP								pCi/L
Thorium-230	6.1E-01	1	UI			0	GP								pCi/L
Thorium-232	3.2E-02	1	UI			0	GP								pCi/L
Thorium-234	4.0E+01	1	UI			0	GP								pCi/L
Tritium	1.1E+04	1		■		2	GP	8.6E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.9E+02	1		■		2	GP								pCi/L
Uranium-235	1.1E+01	1				1	GP								pCi/L
Uranium-238	3.0E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.0E-02					0									pCi/L
Nickel-63	5.0E+00					0									pCi/L
Plutonium-241	5.8E-01					0									pCi/L
Plutonium-242	2.9E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB105DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75258.1 E49841.0	33.273542 °N 81.681744 °W	208.6-188.5 ft msl	285.6 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/12/94 11/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	210.1	209.5	ft msl
pH	3.2	3.3	pH
Sp. conductance	477	346	µS/cm
Water temperature	22	20.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.5	1.2	NTU
Volume purged	2.1	1.8	well volumes
Sampling code			
Synchronous water level	209.7 (09/29/94)	209.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	16,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	43,000	200	Y	■		2	WA	32,000	20		■	●	2	GE	µg/L
pH	3.5	1	JY3	■	●	1	WA	3.6	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB105DR (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.4E+02	1		■		2	GP	5.0E+02	1		■		2	GP	pCi/L
Nonvolatile beta	8.2E+02	1		■		2	GP	6.9E+02	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.0E+03	1		■		2	GP	6.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB106C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74190.1 E50651.3	33.272503 °N 81.677536 °W	166.0-156.0 ft msl	235.1 ft msl	4" PVC	V	Barnwell (IIB ₁)

SAMPLE DATE	08/16/94	11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	200.5	200.6	ft msl
pH	4.8	4.8	pH
Sp. conductance	703	665	µS/cm
Water temperature	19.4	18.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2	0.9	NTU
Volume purged	2.4	1.9	well volumes
Sampling code			
Synchronous water level	200.0 (09/28/94)	200.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	14	1	Y3	■		2	WA	6.5	1				2	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.25	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	1.8	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	6,400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	84,000	200	Y	■		2	WA	90,000	80		■		2	GE	µg/L
pH	4.7	1	JY3	■	●	0	WA	4.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB106C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.1E+01	1		■		2	GP	5.0E+01	1		■		2	GP	pCi/L
Nonvolatile beta	1.2E+03	1		■		2	GP	1.2E+03	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.3E+03	1		■		2	GP	2.5E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB106D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74193.0 E50636.8	33.272485 °N 81.677580 °W	222.9-202.9 ft msl	234.9 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/17/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation			ft msl
pH	6.3	6.2	pH
Sp. conductance	116	118	µS/cm
Water temperature	23.3	15.2	°C
Alkalinity as CaCO ₃	70	48	mg/L
Turbidity	2.4	24.4	NTU
Volume purged			well volumes
Sampling code	I	I	
Synchronous water level	(09/28/94)	(12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	15	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	30	1	Y			1	WA	63	2		■		2	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	26	1	Y			0	WA								µg/L
Cyanide															µg/L
Nickel, total recoverable	17	1	Y			0	WA								µg/L
Phenols															µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	640	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	190	1	Y	■		2	WA	130	1				0	GE	µg/L
Nitrate as nitrogen								6.6	1	J1	■	●	0	GE	µg/L
pH															pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															µg/L
Dichloromethane	<20	1	JVY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB106D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha															
Nonvolatile beta															

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium															
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB107C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75184.0 E51158.1	33.275528 °N 81.678133 °W	160.8-150.8 ft msl	270.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/12/94	11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	211.3	210.0	ft msl
pH	6.4	6.5	pH
Sp. conductance	225	195	µS/cm
Water temperature	20.4	19.2	°C
Alkalinity as CaCO ₃	47	37	mg/L
Turbidity	3.4	3.1	NTU
Volume purged	2.9	2.6	well volumes
Sampling code			
Synchronous water level	210.0 (09/28/94)	209.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	60	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	1.6	1	JY3			0	WA								µg/L
Trichlorofluoromethane	7.3	1	Y	■		1	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	16	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	54	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	12,000	25	Y	■		2	WA	11,000	10		■		2	GE	µg/L
pH	6.7	1	JY3	■	●	0	WA	6.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB107C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.3E+00	1	J3			0	GP	2.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	7.8E+01	1		■		2	GP	6.6E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.1E+00	1	UI			0	GP								pCi/L
Americium-241	4.9E-02	1	UI			0	GP								pCi/L
Cesium-137	-8.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	7.2E-02	1	UI			0	GP								pCi/L
Curium-242	-1.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	8.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129															
Plutonium-238	-3.8E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	4.0E-02	1	UI			0	GP								pCi/L
Radium-226	7.9E-01	1	UI			0	GP								pCi/L
Radium-228	-8.2E-01	1	UI			0	GP								pCi/L
Strontium-89	7.3E+00	1				0	GP								pCi/L
Strontium-90	3.0E+01	1		■		2	GP								pCi/L
Technetium-99	5.8E-01	1	UI			0	GP								pCi/L
Thorium-228	2.5E-01	1	UI			0	GP								pCi/L
Thorium-230	9.8E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-234	7.5E+00	1	UI			0	GP								pCi/L
Tritium	2.4E+02	1		■		2	GP	2.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.9E-01	1	UI			0	GP								pCi/L
Uranium-235	8.7E-02	1	UI			0	GP								pCi/L
Uranium-238	7.2E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.4E-04					0									pCi/L
Nickel-63	7.2E-02					0									pCi/L
Plutonium-241	1.6E-01					0									pCi/L
Plutonium-242	7.9E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB107D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75177.2 E51149.8	33.275499 °N 81.678141 °W	220.9-200.9 ft msl	271 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/12/94 11/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	213.5	213.0	ft msl
pH	3.3	3.6	pH
Sp. conductance	839	603	µS/cm
Water temperature	20.1	19.4	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.7	0.4	NTU
Volume purged	2.2	1.6	well volumes
Sampling code			
Synchronous water level	213.3 (09/28/94)	213.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	250	1	Y			0	WA								µg/L
Cadmium, total recoverable	8.7	1	Y			2	WA	6.5	1				2	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	6.7	1	Y	■		2	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	23	1	Y			1	WA								µg/L
Copper, total recoverable	40	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	20	1	Y			0	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	1.2	1	JY3			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	53	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	23,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	91,000	200	Y	■		2	WA	700,000	500		■		2	GE	µg/L
pH	3.7	1	JY3	■	●	1	WA	3.6	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB107D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+03	1		■		2	GP	3.2E+03	1		■		2	GP	pCi/L
Nonvolatile beta	1.6E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.7E+01	1	J			0	GP								pCi/L
Americium-241	3.8E+01	1		■		2	GP								pCi/L
Cesium-137	3.2E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.4E+00	1	UI			0	GP								pCi/L
Curium-242	-1.9E-03	1	UI			0	GP								pCi/L
Curium-243/244	2.2E+01	1		■		2	GP								pCi/L
Curium-245/246	8.4E-01	1	UI			0	GP								pCi/L
Iodine-129	3.1E+02	1		■		2	GP								pCi/L
Plutonium-238	5.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-2.0E-02	1	UI			0	GP								pCi/L
Radium-226	3.1E+01	1		■		2	GP								pCi/L
Radium-228	2.3E+01	1		■		2	GP								pCi/L
Strontium-89	5.5E+00	1				0	GP								pCi/L
Strontium-90	4.5E+02	1		■		2	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	7.5E-01	1	UI			0	GP								pCi/L
Thorium-230	7.2E-02	1	UI			0	GP								pCi/L
Thorium-232	1.0E-02	1	UI			0	GP								pCi/L
Thorium-234	2.6E+02	1	UI			0	GP								pCi/L
Tritium	3.5E+03	1		■		2	GP	2.4E+03	1	JV2	■		2	GP	pCi/mL
Uranium-233/234	4.7E+02	1	JV2	■		2	GP								pCi/L
Uranium-235	2.2E+01	1		■		2	GP								pCi/L
Uranium-238	6.1E+02	1	JV2	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.7E-02					0									pCi/L
Nickel-63	4.4E+00					0									pCi/L
Plutonium-241	-8.0E-02					0									pCi/L
Plutonium-242	-4.0E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB108D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N76260.7 E51142.3	33.277883 °N 81.680266 °W	223.8-203.8 ft msl	298 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/19/94 11/15/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	217.5	209.0	ft msl
pH	5.7	5.7	pH
Sp. conductance	47	57	µS/cm
Water temperature	21.6	16.6	°C
Alkalinity as CaCO ₃	7	6	mg/L
Turbidity	1.7	5	NTU
Volume purged	0.78	2.0	well volumes
Sampling code	X	X	
Synchronous water level	217.3 (09/28/94)	216.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<1.5	1				0	GE	<1.5	1				0	GE	µg/L
Barium, total recoverable	9.5	1				0	GE	9.1	1				0	GE	µg/L
Cadmium, total recoverable	<0.48	1				0	GE	<0.48	1				0	GE	µg/L
Chromium, total recoverable	<2.3	1				0	GE	<2.3	1				0	GE	µg/L
Lead, total recoverable	19	1	Y			0	WA	12	1	JV2			0	GE	µg/L
Mercury, total recoverable	0.069	1	J3			0	GE	<0.040	1				0	GE	µg/L
Selenium, total recoverable	1.7	1	J3			0	GE	<1.3	1				0	GE	µg/L
Silver, total recoverable	<0.51	1				0	GE	<0.51	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	4.0	1	J3			1	GE	<1.9	1				0	GE	µg/L
Benzene	<0.017	1				0	GE	<0.017	1				0	GE	µg/L
Cobalt, total recoverable	<0.60	1				0	GE	0.61	1	J			0	GE	µg/L
Copper, total recoverable	23	1				0	GE	15	1				0	GE	µg/L
Cyanide	1.6	1	J2			0	GE	<0.70	1				0	GE	µg/L
Nickel, total recoverable	3.0	1	J3			0	GE	<1.8	1				0	GE	µg/L
Phenols	<5.0	1	Y			0	WA								
Tetrachloroethylene	<0.026	1	JY3			0	GE	<0.026	1				0	GE	µg/L
Thallium, total recoverable	<0.66	1				0	GE	<0.66	1				0	GE	µg/L
Trichloroethylene	<0.017	1				0	GE	<0.017	1				0	GE	µg/L
Trichlorofluoromethane															
Vanadium, total recoverable	0.46	1	JV2			0	GE	0.39	1	J			0	GE	µg/L
Zinc, total recoverable	84	1	JV2	■		0	GE	36	1	JV2	■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	110	1	JV2	■		2	GE	72	1	JV2	■		2	GE	µg/L
Nitrate as nitrogen	910	1	Y			0	WA	1,100	1				0	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<0.25	1	Y			0	GE	<0.24	1				0	GE	µg/L
Dichloromethane	<0.29	1	JVY3			0	GE	<0.29	1	JV2			0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB108D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.4E+00	1	J			0	GP	9.0E-01	1	J			0	GP	pCi/L
Nonvolatile beta	2.1E+00	1	J			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228	1.6E+01	1	J			0	GP	2.2E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	-1.9E-01	1	UI			0	GP	-6.7E-01	1	UI			0	GP	pCi/L
Cobalt-60	-7.9E-02	1	UI			0	GP	-3.4E-02	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	3.3E+01	1	UI			0	GP	1.7E+02	1	UI			0	GP	pCi/L
Tritium	1.3E+01	1	Y			1	GP	1.2E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63	-7.9E-02					0		-3.4E-02					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB109D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75855.9 E50488.6	33.275921 °N 81.681200 °W	225.8-205.8 ft msl	293.1 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/19/94 11/15/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	213.4	212.8	ft msl
pH	6.1	5.8	pH
Sp. conductance	57	46	µS/cm
Water temperature	21.1	18	°C
Alkalinity as CaCO ₃	16	8	mg/L
Turbidity	4	3.2	NTU
Volume purged	1.2	1.1	well volumes
Sampling code	X	X	
Synchronous water level	213.1 (09/29/94)	212.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<1.5	1				0	GE	<1.5	1				0	GE	µg/L
Barium, total recoverable	7.5	1				0	GE	8.9	1				0	GE	µg/L
Cadmium, total recoverable	<0.48	1				0	GE	<0.48	1				0	GE	µg/L
Chromium, total recoverable	<2.3	1				0	GE	2.9	1	J			0	GE	µg/L
Lead, total recoverable	7.3	1	Y			0	WA	22	1	JV2			0	GE	µg/L
Mercury, total recoverable	<0.040	1				0	GE	<0.040	1				0	GE	µg/L
Selenium, total recoverable	2.9	1	J3			0	GE	<1.3	1				0	GE	µg/L
Silver, total recoverable	<0.51	1				0	GE	<0.51	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.9	1	J3			0	GE	<1.9	1				0	GE	µg/L
Benzene	<0.017	1				0	GE	<0.017	1				0	GE	µg/L
Cobalt, total recoverable	<0.60	1				0	GE	0.84	1	J			0	GE	µg/L
Copper, total recoverable	9.0	1	Y			0	WA	18	1				0	GE	µg/L
Cyanide	1.7	1	J3			0	GE	<0.70	1				0	GE	µg/L
Nickel, total recoverable	4.0	1	J3			0	GE	2.9	1	J			0	GE	µg/L
Phenols	<32	1	JVY3		●	0	WA								µg/L
Tetrachloroethylene	<0.026	1				0	GE	<0.026	1				0	GE	µg/L
Thallium, total recoverable	<0.66	1				0	GE	<0.66	1				0	GE	µg/L
Trichloroethylene	<0.017	1				0	GE	<0.017	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	0.37	1	JV2			0	GE	1.5	1	J			0	GE	µg/L
Zinc, total recoverable	130	1	Y	■		0	WA	210	1	JV2	■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	130	1	Y	■		2	WA	220	1	JV2	■		2	GE	µg/L
Nitrate as nitrogen	920	1	Y			0	WA	1,000	1				0	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	6.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<0.25	1				0	GE	<0.25	1				0	GE	µg/L
Dichloromethane	<0.29	1	JV2			0	GE	<0.29	1	JV2			0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB109D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1	J3			0	GP	6.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.4E+01	1				0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.4E+00	1	UI			0	GP	7.4E-01	1	UI			0	GP	pCi/L
Americium-241	1.7E-01	1	UI			0	GP								pCi/L
Cesium-137	-1.4E-01	1	UI			0	GP	-1.3E+00	1	UI			0	GP	pCi/L
Cobalt-60	9.3E-01	1	UI			0	GP	1.4E+00	1	UI			0	GP	pCi/L
Curium-242	-1.0E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.0E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	7.9E-01	1	UI			0	GP								pCi/L
Plutonium-238	9.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.4E-02	1	UI			0	GP								pCi/L
Radium-226	7.5E-01	1	UI			0	GP								pCi/L
Radium-228	-8.5E-01	1	UI			0	GP								pCi/L
Strontium-89	-4.6E-01	1	UI			0	GP								pCi/L
Strontium-90	4.8E-01	1	UI			0	GP								pCi/L
Technetium-99	-9.7E+00	1	UI			0	GP								pCi/L
Thorium-228	3.4E-01	1	UI			0	GP								pCi/L
Thorium-230	7.7E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.2E-02	1	UI			0	GP								pCi/L
Thorium-234	1.7E+01	1	UI			0	GP	4.6E+01	1	UI			0	GP	pCi/L
Tritium	2.1E+01	1		■		2	GP	2.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234	0.0E+00	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.1E-04					0									pCi/L
Nickel-63	9.3E-01					0		1.4E+00					0		pCi/L
Plutonium-241	5.6E-02					0									pCi/L
Plutonium-242	2.8E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB110C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74190.7 E50150.6	33.271687 °N 81.678855 °W	147.2-137.2 ft msl	234.5 ft msl	4" PVC	S	Barnwell (IIB,)

SAMPLE DATE 08/18/94

11/14/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	199.4	199.7	ft msl
pH	5.8	5.7	pH
Sp. conductance	447	414	µS/cm
Water temperature	20.6	20.6	°C
Alkalinity as CaCO ₃	1	3	mg/L
Turbidity	0.6	1.2	NTU
Volume purged	3.7	2.2	well volumes
Sampling code			
Synchronous water level	195.8 (09/28/94)	199.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable	100	1				0	WA								µg/L
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	WA								µg/L
Lead, total recoverable	5.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable	<2.0	1				0	WA								µg/L
Silver, total recoverable	<2.0	1				0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1				0	WA								µg/L
Benzene	<5.0	1				0	WA								µg/L
Cobalt, total recoverable	<4.0	1				0	WA								µg/L
Copper, total recoverable	5.3	1				0	WA								µg/L
Cyanide	<5.0	1				0	WA								µg/L
Nickel, total recoverable	12	1				0	WA								µg/L
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<5.0	1				0	WA								µg/L
Thallium, total recoverable	<2.0	1				0	WA								µg/L
Trichloroethylene	<5.0	1				0	WA								µg/L
Trichlorofluoromethane	<5.0	1				0	WA								µg/L
Vanadium, total recoverable	<3.0	1				0	WA								µg/L
Zinc, total recoverable	98	1				0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1				0	WA								µg/L
Nitrate as nitrogen	46,000	500				2	WA	51,000	80				2	GE	µg/L
pH	5.8	1	J3			0	WA	6.1	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	1.7	1	J3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB110C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.2E+00	1	J3			0	GP	1.8E+00	1	J			0	GP	pCi/L
Nonvolatile beta	6.5E+01	1		■		2	GP	7.8E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.8E+00	1	UI			0	GP								pCi/L
Americium-241	7.6E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.6E+00	1	UI			0	GP								pCi/L
Cobalt-60	2.6E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	5.6E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.7E+01	1		■		2	GP								pCi/L
Plutonium-238	4.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	3.1E-01	1	UI			0	GP								pCi/L
Radium-226	1.4E-01	1	UI			0	GP								pCi/L
Radium-228	4.3E-02	1	UI			0	GP								pCi/L
Strontium-89	6.0E-02	1	UI			0	GP								pCi/L
Strontium-90	7.4E+00	1				1	GP								pCi/L
Technetium-99	8.0E+01	1	J3			0	GP								pCi/L
Thorium-228	8.6E-02	1	UI			0	GP								pCi/L
Thorium-230	1.4E+00	1	J3			0	GP								pCi/L
Thorium-232	5.6E-02	1	UI			0	GP								pCi/L
Thorium-234	9.0E+01	1	UI			0	GP								pCi/L
Tritium	1.4E+03	1		■		2	GP	1.5E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.1E-01	1	UI			0	GP								pCi/L
Uranium-235	-1.5E-02	1	UI			0	GP								pCi/L
Uranium-238	7.4E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.7E-05					0									pCi/L
Nickel-63	2.6E+00					0									pCi/L
Plutonium-241	1.2E+00					0									pCi/L
Plutonium-242	6.2E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB110D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74193.3 E50141.6	33.271678 °N 81.678884 °W	211.1-191.1 ft msl	234.5 ft msl	4" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 08/18/94 11/14/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	208.6	204.6	ft msl
pH	3.1	3	pH
Sp. conductance	2,510	2,280	µS/cm
Water temperature	20.9	20.3	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.4	0.3	NTU
Volume purged	2.2	1.7	well volumes
Sampling code			
Synchronous water level	204.2 (09/28/94)	204.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	110	1	Y			0	WA								µg/L
Cadmium, total recoverable	8.3	1	Y			2	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	5.8	1	Y			0	WA								µg/L
Lead, total recoverable	9.8	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	5.2	1	Y	■		2	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	21	1	Y			1	WA								µg/L
Copper, total recoverable	75	1	Y	■		0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	45	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<15	5	Y			0	WA								µg/L
Zinc, total recoverable	150	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	80,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	330,000	500	Y	■		2	WA	310,000	400		■		2	GE	µg/L
pH	3.0	1	JY3	■	●	1	WA	3.2	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	1.7	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB110D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.5E+02	1		■		2	GP	8.1E+02	1		■		2	GP	pCi/L
Nonvolatile beta	2.9E+03	1		■		2	GP	1.0E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.7E+01	1	J			0	GP								pCi/L
Americium-241	8.1E+01	1		■		2	GP								pCi/L
Cesium-137	8.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.9E+00	1	UI			0	GP								pCi/L
Curium-242	-1.5E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.4E+02	1		■		2	GP								pCi/L
Curium-245/246	1.7E+00	1	J			0	GP								pCi/L
Iodine-129	3.3E+02	1		■		2	GP								pCi/L
Plutonium-238	5.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.3E-02	1	UI			0	GP								pCi/L
Radium-226	5.0E+00	1				0	GP								pCi/L
Radium-228	3.0E+01	1		■		2	GP								pCi/L
Strontium-89	1.1E+02	1		■		2	GP								pCi/L
Strontium-90	8.7E+02	1		■		2	GP								pCi/L
Technetium-99	1.8E+02	1				0	GP								pCi/L
Thorium-228	1.6E+00	1	J			0	GP								pCi/L
Thorium-230	4.2E-01	1	UI			0	GP								pCi/L
Thorium-232	-2.2E-02	1	UI			0	GP								pCi/L
Thorium-234	2.2E+02	1	UI			0	GP								pCi/L
Tritium	2.2E+04	1	Y	■		2	GP	2.1E+04	1		■		2	GP	pCi/mL
Uranium-233/234	3.2E+02	1		■		2	GP								pCi/L
Uranium-235	2.0E+01	1		■		2	GP								pCi/L
Uranium-238	1.2E+03	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.2E-01					0									pCi/L
Nickel-63	1.9E+00					0									pCi/L
Plutonium-241	1.3E-01					0									pCi/L
Plutonium-242	6.5E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB111C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75383.3 E51526.3	33.276569 °N 81.677550 °W	169.0-159.0 ft msl	276.3 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/16/94	11/14/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	211.9	211.5	ft msl
pH	5.5	5.5	pH
Sp. conductance	54	51	µS/cm
Water temperature	19.8	19	°C
Alkalinity as CaCO ₃	4	8	mg/L
Turbidity	0.3	0.8	NTU
Volume purged	1.8	2.9	well volumes
Sampling code			
Synchronous water level	211.6 (09/28/94)	211.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	VY			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	2.8	1	Y			1	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	3.1	1	Y			1	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,700	5	Y			0	WA	1,700	1				0	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB111C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.9E-01	1	UI			0	GP	2.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	6.3E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.2E+00	1				0	GP	5.6E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB111D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75382.9 E51515.9	33.276552 °N 81.677577 °W	221.7-201.7 ft msl	276.6 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/11/94 11/14/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	215.1	214.7	ft msl
pH	4.7	5.2	pH
Sp. conductance	35	32	µS/cm
Water temperature	21.3	19.5	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	2	0.3	NTU
Volume purged	3.1	2.5	well volumes
Sampling code			
Synchronous water level	214.9 (09/28/94)	214.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	9.9	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	5.2	1	Y			0	WA	3.9	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	38	1	Y			0	WA								µg/L
Cyanide	6.6	1	Y		■	0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	JY3		●	0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	3.4	1	JY			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	51	1	Y		■	0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	23	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,400	10	JY		●	0	WA	1,500	1				0	GE	µg/L
pH	5.2	1	JY3		■	0	WA	5.2	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB111D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.7E-01	1	UI			0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.8E+00	1				0	GP	3.6E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	7.1E+00	1	UI			0	GP								pCi/L
Americium-241	7.6E-02	1	UI			0	GP								pCi/L
Cesium-137	-5.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.9E+00	1	UI			0	GP								pCi/L
Curium-242	-1.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	6.7E-03	1	UI			0	GP								pCi/L
Curium-245/246	9.2E-03	1	UI			0	GP								pCi/L
Iodine-129	2.4E-01	1	UI			0	GP								pCi/L
Plutonium-238	9.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	7.6E-02	1	UI			0	GP								pCi/L
Radium-226	4.0E-01	1	UI			0	GP								pCi/L
Radium-228	3.0E-01	1	UI			0	GP								pCi/L
Strontium-89	1.2E-01	1	UI			0	GP								pCi/L
Strontium-90	1.3E+00	1	UI			0	GP								pCi/L
Technetium-99	-1.1E+01	1	UI			0	GP								pCi/L
Thorium-228	1.2E-01	1	UI			0	GP								pCi/L
Thorium-230	5.4E-01	1	UI			0	GP								pCi/L
Thorium-232	-6.2E-03	1	UI			0	GP								pCi/L
Thorium-234	1.3E+01	1	UI			0	GP								pCi/L
Tritium	1.1E+01	1				1	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234	5.5E-02	1	UI			0	GP								pCi/L
Uranium-235	3.2E-02	1	UI			0	GP								pCi/L
Uranium-238	9.2E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.0E-05					0									pCi/L
Nickel-63	1.9E+00					0									pCi/L
Plutonium-241	3.0E-01					0									pCi/L
Plutonium-242	1.5E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB112A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74231.4 E48809.1	33.269588 °N 81.682466 °W	91.0-81.0 ft msl	229.1 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/15/94 11/14/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	152.8	152.9	ft msl
pH	7.1	6.9	pH
Sp. conductance	162	158	µS/cm
Water temperature	20.1	19.2	°C
Alkalinity as CaCO ₃	44	32	mg/L
Turbidity	0.7	0.9	NTU
Volume purged	3.2	2.3	well volumes
Sampling code			
Synchronous water level	152.6 (09/29/94)	153.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	53	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	3.8	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	41	1	Y			1	WA								µg/L
Nitrate as nitrogen	2,800	10	Y			0	WA	2,900	2				0	GE	µg/L
pH	6.8	1	JY3		●	0	WA	7.2	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	24	1	V	■		2	WA	<1.0	1	JV2			0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB112A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.0E-01	1	UI			0	GP	3.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.1E+01	1				0	GP	1.5E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.4E+01	1	UI			0	GP								pCi/L
Americium-241	4.6E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	4.6E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-2.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	1.7E-02	1	UI			0	GP								pCi/L
Iodine-129	2.7E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	1.2E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.5E-01	1	UI			0	GP								pCi/L
Radium-226	2.5E+00	1				0	GP								pCi/L
Radium-228	-7.2E-01	1	UI			0	GP								pCi/L
Strontium-89	4.5E-01	1	UI			0	GP								pCi/L
Strontium-90	4.8E+00	1				1	GP								pCi/L
Technetium-99	-1.2E+01	1	UI			0	GP								pCi/L
Thorium-228	4.5E-02	1	UI			0	GP								pCi/L
Thorium-230	1.7E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	9.5E+00	1	UI			0	GP								pCi/L
Tritium	1.1E+02	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234	1.7E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	5.8E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-6.7E-05					0									pCi/L
Nickel-63	4.6E-01					0									pCi/L
Plutonium-241	6.0E-01					0									pCi/L
Plutonium-242	3.0E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB112C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74227.5 E48794.8	33.269556 °N 81.682496 °W	139.1-129.1 ft msl	229.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/15/94 11/14/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	200.8	201.0	ft msl
pH	4.5	4.5	pH
Sp. conductance	1,550	1,410	µS/cm
Water temperature	20	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	5.5	4.2	NTU
Volume purged	2.2	2.4	well volumes
Sampling code			
Synchronous water level	200.6 (09/29/94)	200.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	700	1	Y			0	WA								µg/L
Cadmium, total recoverable	35	1	Y	■		2	WA	40	1		■		2	GE	µg/L
Chromium, total recoverable	4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.22	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	280	1	Y	■		2	WA								µg/L
Copper, total recoverable	20	1	Y			0	WA								µg/L
Cyanide	7.3	1	Y	■		0	WA								µg/L
Nickel, total recoverable	92	1	Y	■		1	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	190	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	16,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	200,000	500	Y	■		2	WA	210,000	160		■		2	GE	µg/L
pH	4.4	1	JY3	■	●	0	WA	4.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB112C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.9E+02	1		■		2	GP	2.0E+02	1		■		2	GP	pCi/L
Nonvolatile beta	2.2E+03	1		■		2	GP	2.0E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.4E+01	1	UI			0	GP								pCi/L
Americium-241	2.4E-01	1	UI			0	GP								pCi/L
Cesium-137	6.2E-01	1	UI			0	GP								pCi/L
Cobalt-60	3.0E+00	1	UI			0	GP								pCi/L
Curium-242	-5.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.9E-01	1	UI			0	GP								pCi/L
Curium-245/246	-5.8E-02	1	UI			0	GP								pCi/L
Iodine-129	2.0E+02	1		■		2	GP								pCi/L
Plutonium-238	4.0E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	5.7E-02	1	UI			0	GP								pCi/L
Radium-226	1.1E+02	1		■		2	GP								pCi/L
Radium-228	2.3E+01	1		■		2	GP								pCi/L
Strontium-89	-5.2E+01	1	UI			0	GP								pCi/L
Strontium-90	7.7E+02	1		■		2	GP								pCi/L
Technetium-99	3.3E+02	1				0	GP								pCi/L
Thorium-228	1.0E+00	1	J			0	GP								pCi/L
Thorium-230	7.2E-01	1	UI			0	GP								pCi/L
Thorium-232	3.7E-02	1	UI			0	GP								pCi/L
Thorium-234	8.0E+01	1	UI			0	GP								pCi/L
Tritium	7.5E+03	1		■		2	GP	7.3E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.2E+00	1	J			0	GP								pCi/L
Uranium-235	6.3E-01	1	UI			0	GP								pCi/L
Uranium-238	2.9E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.2E-03					0									pCi/L
Nickel-63	3.0E+00					0									pCi/L
Plutonium-241	2.3E-01					0									pCi/L
Plutonium-242	1.1E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB112D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74223.7 E48780.0	33.269523 °N 81.682527 °W	208.9-188.9 ft msl	229.6 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/15/94 11/14/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	204.8	204.8	ft msl
pH	3.6	3.5	pH
Sp. conductance	1,560	1,240	µS/cm
Water temperature	19.4	18.9	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.5	1.7	NTU
Volume purged	7.1	6.7	well volumes
Sampling code			
Synchronous water level	204.6 (09/29/94)	204.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	840	1	Y			0	WA								µg/L
Cadmium, total recoverable	22	1	Y	■		2	WA	23	1		■		2	GE	µg/L
Chromium, total recoverable	6.1	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	140	1	Y	■		2	WA								µg/L
Copper, total recoverable	100	1	Y	■		0	WA								µg/L
Cyanide	5.4	1	Y	■		0	WA								µg/L
Nickel, total recoverable	76	1	Y	■		1	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	160	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	69,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	180,000	500	Y	■		2	WA	170,000	160		■		2	GE	µg/L
pH	3.7	1	JY3	■	●	1	WA	3.7	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB112D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.9E+02	1		■		2	GP	2.6E+02	1		■		2	GP	pCi/L
Nonvolatile beta	3.4E+03	1		■		2	GP	3.0E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.8E+01	1				0	GP								pCi/L
Americium-241	5.2E-01	1	UI			0	GP								pCi/L
Cesium-137	3.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	9.6E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	3.8E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.3E+02	1		■		2	GP								pCi/L
Plutonium-238	1.7E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	7.3E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+02	1		■		2	GP								pCi/L
Radium-228	5.5E+01	1		■		2	GP								pCi/L
Strontium-89	1.5E+02	1		■		2	GP								pCi/L
Strontium-90	1.2E+03	1		■		2	GP								pCi/L
Technetium-99	1.4E+02	1				0	GP								pCi/L
Thorium-228	1.8E+00	1				0	GP								pCi/L
Thorium-230	1.9E-01	1	UI			0	GP								pCi/L
Thorium-232	3.8E-02	1	UI			0	GP								pCi/L
Thorium-234	7.7E+01	1	UI			0	GP								pCi/L
Tritium	1.2E+04	1		■		2	GP	1.0E+04	1		■		2	GP	pCi/mL
Uranium-233/234	1.3E+01	1				1	GP								pCi/L
Uranium-235	1.4E-01	1	UI			0	GP								pCi/L
Uranium-238	1.3E+01	1				1	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-03					0									pCi/L
Nickel-63	9.6E+00					0									pCi/L
Plutonium-241	2.9E-01					0									pCi/L
Plutonium-242	1.5E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB113A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74167.5 E51068.1	33.273133 °N 81.676395 °W	91.3-81.0 ft msl	223.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/11/94

11/15/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	158.8	158.7	ft msl
pH	11.9	12	pH
Sp. conductance	1,750	1,610	µS/cm
Water temperature	23.1	18.3	°C
Alkalinity as CaCO ₃	350	457	mg/L
Turbidity	11.1	1.8	NTU
Volume purged	0.78	0.80	well volumes
Sampling code	X	X	
Synchronous water level	158.0 (09/28/94)	158.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<20	10				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	5.8	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	2,100	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	4,700	10	Y			0	WA	8,100	10				1	GE	µg/L
pH	12	1	JY3	■	●	2	WA	12	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB113A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.9E+00	1				0	GP	1.1E+01	1				1	GP	pCi/L
Nonvolatile beta	8.8E+00	1				0	GP	1.0E+01	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.5E+02	1		■		2	GP	2.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB113C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74160.7 E51084.2	33.273144 °N 81.676339 °W	164.0-154.0 ft msl	222.9 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/11/94 11/15/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	201.6	202.5	ft msl
pH	11	10	pH
Sp. conductance	279	162	µS/cm
Water temperature	21.5	16.4	°C
Alkalinity as CaCO ₃	67	55	mg/L
Turbidity	4.4	5.9	NTU
Volume purged	0.86	0.88	well volumes
Sampling code	X	X	
Synchronous water level	201.4 (09/28/94)	201.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	16	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	3.6	1	Y			1	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	440	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	4,700	10	Y			0	WA								µg/L
pH	11	1	JY3	■	●	2	WA	11	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB113C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.6E-01	1	UI			0	GP	4.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	6.2E-01	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	7.1E+01	1		■		2	GP	6.8E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB113D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74154.8 E51098.4	33.273154 °N 81.676290 °W	209.6-189.6 ft msl	222.5 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/11/94 11/15/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	206.1	206.4	ft msl
pH	4.6	4.7	pH
Sp. conductance	27	24	µS/cm
Water temperature	19.7	19.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.9	0.9	NTU
Volume purged	9.3	6.7	well volumes
Sampling code			
Synchronous water level	206.1 (09/28/94)	206.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	21	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	JY3			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	39	1	Y			1	WA								µg/L
Nitrate as nitrogen	720	1	Y			0	WA	790	1				0	GE	µg/L
pH	5.0	1	JY3	■	●	0	WA	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB113D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	9.1E-01	1	UI			0	GP	8.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.6E+00	1	UI			0	GP	2.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.3E+01	1				1	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB114A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75297.4 E52046.6	33.277229 °N 81.676014 °W	105.0-95.2 ft msl	252 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	08/17/94	11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	155.2	155.2	ft msl
pH	8.5	8.7	pH
Sp. conductance	187	169	µS/cm
Water temperature	20.5	19.7	°C
Alkalinity as CaCO ₃	66	71	mg/L
Turbidity	2.6	2.2	NTU
Volume purged	3.7	2.8	well volumes
Sampling code			
Synchronous water level	154.9 (09/28/94)	155.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	1.2	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	48	1				1	WA								µg/L
Nitrate as nitrogen	2,000	5				0	WA	2,200	2				0	GE	µg/L
pH	6.1	1	J3	■	●	0	WA	8.4	1	J1		●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB114A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.0E+00	1	J3			0	GP	2.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	5.6E+01	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	9.4E-01	1	J3			0	GP	1.1E+00	1	J			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB114C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75288.5 E52033.8	33.277188 °N 81.676030 °W	168.0-158.0 ft msl	252.2 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/18/94	11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	212.9	212.7	ft msl
pH	5.5	5.6	pH
Sp. conductance	55	49	µS/cm
Water temperature	20	19.6	°C
Alkalinity as CaCO ₃	11	8	mg/L
Turbidity	0.7	0.9	NTU
Volume purged	3.6	4.0	well volumes
Sampling code			
Synchronous water level	212.6 (09/28/94)	212.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	GE	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	GE								µg/L
Tetrachloroethylene	<1.0	1				0	GE								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	GE								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	46	1				1	WA								µg/L
Nitrate as nitrogen	2,100	2				0	GE	2,000	2				0	GE	µg/L
pH	5.9	1	J1	■	●	0	GE	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB114C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.2E+00	1	J3			0	GP	5.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	-3.0E-01	1	UI			0	TM	1.4E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	5.6E+00	1	Y			0	GP	4.0E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB114D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75278.6 E52018.6	33.277141 °N 81.676051 °W	217.8-197.7 ft msl	252.2 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/17/94 11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	216.2	216.0	ft msl
pH	4.6	4.8	pH
Sp. conductance	40	37	µS/cm
Water temperature	20	19.7	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	0.6	0.4	NTU
Volume purged	7.8	3.7	well volumes
Sampling code			
Synchronous water level	215.9 (09/28/94)	215.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	4.8	1				0	WA	5.1	1				0	GE	µg/L
Mercury, total recoverable	0.46	1				0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1				0	WA								µg/L
Tetrachloroethylene	<1.0	1				0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1				0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	53	1		■		2	WA								µg/L
Nitrate as nitrogen	1,500	5				0	WA	1,500	1				0	GE	µg/L
pH	5.3	1	J3	■	●	0	WA	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB114D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.3E+00	1	J3			0	GP	1.5E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.5E+00	1	UI			0	GP	8.1E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	8.6E+00	1				0	GP	8.0E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB115C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72515.5 E49736.0	33.267306 °N 81.676692 °W	173.8-163.8 ft msl	207.8 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/19/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	184.3		ft msl
pH	4.9	5	pH
Sp. conductance	40	21	µS/cm
Water temperature	21.4	17	°C
Alkalinity as CaCO ₃	2	2	mg/L
Turbidity	20.1	3.6	NTU
Volume purged	0.82		well volumes
Sampling code	X	X	
Synchronous water level	(09/29/94)	184.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	8.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	100	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	460	1	Y			0	WA	520	1				0	GE	µg/L
pH	5.6	1	JY3	■	●	0	WA	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB115C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	4.5E-01	1	UI			0	GP	-5.3E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	2.7E+00	1	J3			0	GP	3.1E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.1E+01	1				1	GP	1.0E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB115D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72504.3 E49728.3	33.267268 °N 81.676691 °W	192.5-182.5 ft msl	208.5 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/19/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	190.3		ft msl
pH	4.7	4.8	pH
Sp. conductance	16	373	µS/cm
Water temperature	23	17.5	°C
Alkalinity as CaCO ₃	0	3	mg/L
Turbidity	28.6	128	NTU
Volume purged	0.78		well volumes
Sampling code	X	X	
Synchronous water level	(09/29/94)	(12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	18	1	Y			0	WA	46	1				1	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	640	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	200	1	Y			0	WA	230	1				0	GE	µg/L
pH	5.3	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB115D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	2.0E+00	1	J3			0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.1E+00	1	J3			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.1E+01	1				1	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB116C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72725.5 E50645.9	33.269255 °N 81.674705 °W	170.5-160.5 ft msl	202.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/19/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	189.1		ft msl
pH	5	4.8	pH
Sp. conductance	20	19	µS/cm
Water temperature	19	19.5	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	1.6	1.6	NTU
Volume purged	4.7		well volumes
Sampling code			
Synchronous water level	188.7 (09/29/94)	189.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	GE	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	GE								µg/L
Tetrachloroethylene	<1.0	1	Y			0	GE								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	GE								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	30	1	Y			1	WA								µg/L
Nitrate as nitrogen	660	1	Y			0	GE	740	1				0	GE	µg/L
pH	5.9	1	JY1	■	●	0	GE	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB116C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	-6.6E-02	1	UI			0	GP	-4.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	-1.0E-01	1	UI			0	TM	-4.1E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.3E+01	1	V			1	TM	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB116D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N72727.4 E50629.7	33.269233 °N 81.674751 °W	196.4-186.4 ft msl	202.9 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/19/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	191.0		ft msl
pH	4.6	4.6	pH
Sp. conductance	24	28	μS/cm
Water temperature	22.7	16	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	66.5	37.3	NTU
Volume purged	0.67		well volumes
Sampling code	X	X	
Synchronous water level	190.8 (09/29/94)	191.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								μg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	μg/L
Chromium, total recoverable															
Lead, total recoverable	49	1	Y			1	WA	31	1				1	GE	μg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								μg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								μg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								μg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								μg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	580	1	Y	■		2	WA								μg/L
Nitrate as nitrogen	47	1	Y			0	WA	65	1	J			0	GE	μg/L
pH	5.0	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB116D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.2E+00	1	J3			0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.2E+00	1	J3			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.4E+00	1				0	GP	1.3E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB117D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74070.4 E50486.8	33.271970 °N 81.677736 °W	209.7-189.7 ft msl	230.7 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/16/94 11/15/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	204.0	204.2	ft msl
pH	3.5	3.3	pH
Sp. conductance	570	565	µS/cm
Water temperature	19.8	19.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.9	2	NTU
Volume purged	8.1	5.4	well volumes
Sampling code			
Synchronous water level	203.9 (09/28/94)	204.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	2.7	1	Y			1	WA	3.5	1				1	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	23,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	62,000	100	JY3	■	●	2	WA	68,000	40		■		2	GE	µg/L
pH	3.7	1	JY3	■	●	1	WA	3.7	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB117D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+03	1		■		2	GP	1.1E+03	1		■		2	GP	pCi/L
Nonvolatile beta	8.6E+02	1		■		2	GP	8.1E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E+03	1		■		2	GP	2.4E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB118D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74697.9 E51276.3	33.274646 °N 81.676877 °W	211.3-191.3 ft msl	243.3 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/19/94 11/15/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	210.7	210.6	ft msl
pH	4.8	4.7	pH
Sp. conductance	30	28	µS/cm
Water temperature	19	18.6	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	1.1	0.7	NTU
Volume purged	11	8.7	well volumes
Sampling code			
Synchronous water level	210.5 (09/28/94)	210.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	9.4	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	12	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<32	1	JVY3		●	0	WA								µg/L
Tetrachloroethylene	1.6	1	JY3			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	53	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	22	1	Y			0	WA								µg/L
Nitrate as nitrogen	920	5	Y			0	WA	950	1				0	GE	µg/L
pH	5.0	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB118D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1	J3			0	GP	8.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.2E-01	1	UI			0	GP								pCi/L
Americium-241	-4.3E-03	1	UI			0	GP								pCi/L
Cesium-137	2.0E+00	1	UI			0	GP								pCi/L
Cobalt-60	-4.0E-01	1	UI			0	GP								pCi/L
Curium-242	3.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	-4.3E-03	1	UI			0	GP								pCi/L
Iodine-129	1.6E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.3E-01	1	UI			0	GP								pCi/L
Radium-226	8.2E-01	1	UI			0	GP								pCi/L
Radium-228	7.8E-01	1	UI			0	GP								pCi/L
Strontium-89	-5.0E-01	1	UI			0	GP								pCi/L
Strontium-90	2.4E-01	1	UI			0	GP								pCi/L
Technetium-99	-4.7E+00	1	UI			0	GP								pCi/L
Thorium-228	-5.3E-02	1	UI			0	GP								pCi/L
Thorium-230	1.5E+00	1	J3			0	GP								pCi/L
Thorium-232	4.1E-02	1	UI			0	GP								pCi/L
Thorium-234	8.6E+01	1	UI			0	GP								pCi/L
Tritium	1.3E+01	1	Y			1	GP	1.2E+01	1				1	GP	pCi/mL
Uranium-233/234	6.8E-01	1	UI			0	GP								pCi/L
Uranium-235	5.5E-02	1	UI			0	GP								pCi/L
Uranium-238	1.3E+00	1	J3			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-6.4E-05					0									pCi/L
Nickel-63	-4.0E-01					0									pCi/L
Plutonium-241	5.0E-01					0									pCi/L
Plutonium-242	2.5E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB119D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N74599.7 E50600.6	33.273326 °N 81.678465 °W	213.1-193.1 ft msl	254.1 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/18/94 11/16/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	207.3	207.2	ft msl
pH	3.4	3.3	pH
Sp. conductance	1,020	1,100	µS/cm
Water temperature	21.3	19	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	44.1	77.8	NTU
Volume purged	0.86	0.86	well volumes
Sampling code	X	X	
Synchronous water level	207.1 (09/28/94)	207.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	4.2	1	Y			1	WA	6.5	1				2	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	10	1	Y			0	WA	18	1				0	GE	µg/L
Mercury, total recoverable	0.52	1	JY			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	41,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	110,000	500	Y	■		2	WA	150,000	160		■		2	GE	µg/L
pH	3.4	1	JY3	■	●	1	WA	3.5	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB119D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.2E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/L
Nonvolatile beta	1.4E+03	1		■		2	GP	1.4E+03	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.5E+03	1	Y	■		2	GP	8.0E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB120A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75538.9 E49175.7	33.273077 °N 81.684041 °W	109.0-99.0 ft msl	280.1 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 08/16/94 11/15/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	147.9	148.1	ft msl
pH	9.7	10.5	pH
Sp. conductance	142	187	µS/cm
Water temperature	20.4	20	°C
Alkalinity as CaCO ₃	61	58	mg/L
Turbidity	0.5	0.6	NTU
Volume purged	4.9	2.5	well volumes
Sampling code			
Synchronous water level	(09/29/94)	148.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	3.8	1	Y			0	WA								µg/L
Barium, total recoverable	21	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	6.0	1	Y			0	WA								µg/L
Zinc, total recoverable	8.3	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	610	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,800	5	Y			0	WA	3,600	4				0	GE	µg/L
pH	9.7	1	JY3	■	●	1	WA	11	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB120A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E+00	1	J3			0	GP	-7.6E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	3.9E+00	1				0	GP	3.4E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.1E+00	1	UI			0	GP								pCi/L
Americium-241	-2.5E-04	1	UI			0	GP								pCi/L
Cesium-137	-6.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	9.4E-02	1	UI			0	GP								pCi/L
Curium-242	2.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.7E-02	1	UI			0	GP								pCi/L
Curium-245/246	1.3E-02	1	UI			0	GP								pCi/L
Iodine-129	8.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	1.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.4E-01	1	UI			0	GP								pCi/L
Radium-226	2.7E-01	1	UI			0	GP								pCi/L
Radium-228	-8.6E-01	1	UI			0	GP								pCi/L
Strontium-89	-2.4E-01	1	UI			0	GP								pCi/L
Strontium-90	4.2E-01	1	UI			0	GP								pCi/L
Technetium-99	2.8E+00	1	UI			0	GP								pCi/L
Thorium-228	2.8E-01	1	UI			0	GP								pCi/L
Thorium-230	2.7E-01	1	UI			0	GP								pCi/L
Thorium-232	6.0E-02	1	UI			0	GP								pCi/L
Thorium-234	5.0E+01	1	UI			0	GP								pCi/L
Tritium	5.5E+01	1		■		2	GP	7.7E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.3E-01	1	UI			0	GP								pCi/L
Uranium-235	2.0E-02	1	UI			0	GP								pCi/L
Uranium-238	2.0E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.2E-05					0									pCi/L
Nickel-63	9.4E-02					0									pCi/L
Plutonium-241	1.3E+00					0									pCi/L
Plutonium-242	6.7E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB120C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75549.8 E49171.1	33.273094 °N 81.684074 °W	160.7-150.7 ft msl	279.7 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/16/94 11/15/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	205.5	205.0	ft msl
pH	5.9	6.1	pH
Sp. conductance	360	326	µS/cm
Water temperature	20	19.7	°C
Alkalinity as CaCO ₃	13	11	mg/L
Turbidity	0.6	0.9	NTU
Volume purged	3.3	3.8	well volumes
Sampling code			
Synchronous water level	205.1 (09/29/94)	204.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	110	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	6.5	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	6.7	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	5.8	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	23	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	39,000	200	Y	■		2	WA	37,000	40		■		2	GE	µg/L
pH	6.1	1	JY3	■	●	0	WA	6.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB120C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+01	1		■		2	GP	9.9E+00	1				1	GP	pCi/L
Nonvolatile beta	4.3E+01	1				1	GP	5.3E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.9E+00	1	UI			0	GP								pCi/L
Americium-241	-4.1E-03	1	UI			0	GP								pCi/L
Cesium-137	2.9E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.0E+00	1	UI			0	GP								pCi/L
Curium-242	-9.3E-03	1	UI			0	GP								pCi/L
Curium-243/244	4.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.5E+01	1		■		2	GP								pCi/L
Plutonium-238	-4.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.4E-02	1	UI			0	GP								pCi/L
Radium-226	2.1E+00	1				0	GP								pCi/L
Radium-228	1.2E+00	1	J3			0	GP								pCi/L
Strontium-89	-9.0E-02	1	UI			0	GP								pCi/L
Strontium-90	6.9E+00	1				1	GP								pCi/L
Technetium-99	4.1E+01	1	J3			0	GP								pCi/L
Thorium-228	1.2E-01	1	UI			0	GP								pCi/L
Thorium-230	5.2E-01	1	UI			0	GP								pCi/L
Thorium-232	7.0E-03	1	UI			0	GP								pCi/L
Thorium-234	1.1E+02	1	UI			0	GP								pCi/L
Tritium	1.3E+03	1		■		2	GP	1.1E+03	1		■		2	GP	pCi/mL
Uranium-233/234	9.3E-01	1	UI			0	GP								pCi/L
Uranium-235	1.2E-01	1	UI			0	GP								pCi/L
Uranium-238	9.7E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.2E-04					0									pCi/L
Nickel-63	1.0E+00					0									pCi/L
Plutonium-241	5.5E-02					0									pCi/L
Plutonium-242	2.7E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB120D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75568.7 E49163.7	33.273124 °N 81.684130 °W	216.5-196.5 ft msl	280.5 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/17/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	208.9	208.3	ft msl
pH	6.3	6.2	pH
Sp. conductance	48	52	µS/cm
Water temperature	22.4	19.9	°C
Alkalinity as CaCO ₃	17	20	mg/L
Turbidity	10.8	9.5	NTU
Volume purged	0.99	1.0	well volumes
Sampling code	X	X	
Synchronous water level	208.5 (09/29/94)	208.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	31	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	5.1	1	Y			0	WA	4.4	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	12	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.5	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	54	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	30	1	Y			1	WA								µg/L
Nitrate as nitrogen	51	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	6.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB120D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.4E-01	1	UI			0	GP	9.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.0E+00	1	J3			0	GP	3.6E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.3E+00	1	UI			0	GP								pCi/L
Americium-241	-5.0E-03	1	UI			0	GP								pCi/L
Cesium-137	9.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.3E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	1.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-8.5E-01	1	UI			0	GP								pCi/L
Plutonium-238	-2.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	7.6E-03	1	UI			0	GP								pCi/L
Radium-226	6.6E-01	1	UI			0	GP								pCi/L
Radium-228	-5.3E-01	1	UI			0	GP								pCi/L
Strontium-89	-9.7E-01	1	UI			0	GP								pCi/L
Strontium-90	3.8E-01	1	UI			0	GP								pCi/L
Technetium-99	-7.8E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	2.9E-01	1	UI			0	GP								pCi/L
Thorium-232	-2.1E-02	1	UI			0	GP								pCi/L
Thorium-234	7.2E+01	1	UI			0	GP								pCi/L
Tritium	1.2E+01	1				1	GP	1.2E+01	1				1	GP	pCi/mL
Uranium-233/234	6.8E-01	1	UI			0	GP								pCi/L
Uranium-235	-8.2E-03	1	UI			0	GP								pCi/L
Uranium-238	2.2E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.1E-05					0									pCi/L
Nickel-63	4.3E-01					0									pCi/L
Plutonium-241	3.0E-02					0									pCi/L
Plutonium-242	1.5E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB121C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75155.7 E48413.1	33.270985 °N 81.685304 °W	158.4-148.4 ft msl	256.5 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/16/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	203.5	203.1	ft msl
pH	5.8	5.7	pH
Sp. conductance	40	39	µS/cm
Water temperature	19.5	18.8	°C
Alkalinity as CaCO ₃	5	5	mg/L
Turbidity	0.4	0.5	NTU
Volume purged	4.0	3.6	well volumes
Sampling code			
Synchronous water level	203.2 (09/29/94)	202.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	VY			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	22	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,100	5	Y			0	WA	1,300	1				0	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	6.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB121C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.9E+00	1	J3			0	GP	1.0E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	3.5E+00	1				0	GP	4.4E+00	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.1E+02	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB121DR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N75151.9 E48429.7	33.271004 °N 81.685253 °W	211.3-191.3 ft msl	255.5 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/17/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	206.3	205.8	ft msl
pH	4.5	5.6	pH
Sp. conductance	113	59	µS/cm
Water temperature	21	19.1	°C
Alkalinity as CaCO ₃	0	9	mg/L
Turbidity	18.9	26.2	NTU
Volume purged	1.0	0.84	well volumes
Sampling code	X	X	
Synchronous water level	206.0 (09/29/94)	205.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	74	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	4.6	1	Y			0	WA	15	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															µg/L
Silver, total recoverable															µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	3,800	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	11,000	50	Y	■		2	WA	4,200	4				0	GE	µg/L
pH	4.4	1	JY3	■	●	0	WA	4.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB121DR (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	3.8E+00	1				0	GP	2.5E+01	1		■		2	GP	pCi/L
Nonvolatile beta	4.2E+02	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.1E+02	1		■		2	GP	6.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB122C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73881.8 E48195.0	33.267812 °N 81.683403 °W	170.0-160.0 ft msl	218 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE	08/15/94	11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	198.6	198.8	ft msl
pH	4.4	4.4	pH
Sp. conductance	424	422	µS/cm
Water temperature	19.2	18.4	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	8.9	3.4	NTU
Volume purged	5.9	5.3	well volumes
Sampling code			
Synchronous water level	198.3 (09/29/94)	198.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	VY			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	500	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	45,000	200	Y	■		2	WA	59,000	80		■		2	GE	µg/L
pH	4.7	1	JY3	■	●	0	WA	4.7	1	J3	■	●	0	WA	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB122C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.9E+01	1		■		2	GP	2.0E+01	1		■		2	TM	pCi/L
Nonvolatile beta	6.2E+01	1		■		2	GP	9.3E+01	1		■		2	TM	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.5E+03	1		■		2	GP	2.5E+03	1		■		2	TM	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB122D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73865.5 E48201.7	33.267787 °N 81.683354 °W	206.6-186.6 ft msl	217.6 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/15/94 11/16/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	202.0	202.3	ft msl
pH	4.9	4.7	pH
Sp. conductance	117	121	µS/cm
Water temperature	19.8	19.2	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	0.8	1.2	NTU
Volume purged	5.2	13	well volumes
Sampling code			
Synchronous water level	201.8 (09/29/94)	202.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	42	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable	<2.0	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	15	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	120	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	8,300	10	Y			1	WA	15,000	20		■		2	GE	µg/L
pH	5.6	1	JY3	■	●	0	WA	5.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB122D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.4E+00	1	J3			0	GP	3.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.4E+01	1				0	GP	2.0E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.1E+01	1	UI			0	GP								pCi/L
Americium-241	-2.7E-04	1	UI			0	GP								pCi/L
Cesium-137	-1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	6.3E-01	1	UI			0	GP								pCi/L
Curium-242	7.8E-03	1	UI			0	GP								pCi/L
Curium-243/244	-5.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	-7.3E-03	1	UI			0	GP								pCi/L
Iodine-129	2.1E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	1.3E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	-3.0E-03	1	UI			0	GP								pCi/L
Radium-226	1.9E+00	1				0	GP								pCi/L
Radium-228	1.1E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	5.9E-01	1	UI			0	GP								pCi/L
Technetium-99	2.1E+01	1	J3			0	GP								pCi/L
Thorium-228	6.3E-02	1	UI			0	GP								pCi/L
Thorium-230	6.8E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	8.5E+01	1	UI			0	GP								pCi/L
Tritium	5.8E+02	1		■		2	GP	8.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.8E-01	1	UI			0	GP								pCi/L
Uranium-235	1.7E-01	1	UI			0	GP								pCi/L
Uranium-238	2.7E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.5E-04					0									pCi/L
Nickel-63	6.3E-01					0									pCi/L
Plutonium-241	-1.2E-02					0									pCi/L
Plutonium-242	-5.9E-08					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB123C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74566.7 E51750.5	33.275129 °N 81.675374 °W	165.3-155.3 ft msl	238.1 ft msl	4" PVC	S	Barnwell (IIB ₁)

SAMPLE DATE 08/17/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	209.7	209.6	ft msl
pH	5.5	5.8	pH
Sp. conductance	64	61	µS/cm
Water temperature	19.9	18.2	°C
Alkalinity as CaCO ₃	8	10	mg/L
Turbidity	0.6	0.5	NTU
Volume purged	3.3	3.8	well volumes
Sampling code			
Synchronous water level	209.4 (09/28/94)	209.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	1.1	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	2,600	5	Y			0	WA	2,800	4				0	GE	µg/L
pH	6.0	1	JY3	■	●	0	WA	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB123C (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	6.6E-01	1	UI			0	GP	7.9E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	1.0E+00	1	UI			0	GP	1.0E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	3.7E+00	1				0	GP	2.7E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSB123D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N74562.7 E51734.8	33.275095 °N 81.675407 °W	214.1-194.1 ft msl	238.1 ft msl	4" PVC	S	Water Table (IIB ₂)

SAMPLE DATE 08/17/94 11/17/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	211.1	211.2	ft msl
pH	4.5	4.8	pH
Sp. conductance	43	39	µS/cm
Water temperature	19	18.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.4	0.6	NTU
Volume purged	9.1	4.8	well volumes
Sampling code			
Synchronous water level	210.8 (09/28/94)	211.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	JY3		●	0	WA								µg/L
Selenium, total recoverable															
Silver, total recoverable															

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols	<5.0	1	Y			0	WA								µg/L
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	56	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,000	5	Y			0	WA	2,000	2				0	GE	µg/L
pH	5.0	1	JY3	■	●	0	WA	5.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSB123D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.1E+00	1	J3			0	GP	1.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	6.1E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	9.5E+00	1				0	GP	8.6E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N79063.1 E52992.5	33.287100 °N 81.680840 °W	228.6-208.5 ft msl	310.8 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94 11/02/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	224.4	223.9	ft msl
pH	4.8	4.9	pH
Sp. conductance	113	74	µS/cm
Water temperature	23.8	20	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	13.8	7	NTU
Volume purged	0.38	0.79	well volumes
Sampling code	X	X	
Synchronous water level	224.1 (09/29/94)	223.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	17	1	Y			0	WA	12	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	11	1	Y			0	WA	6.4	1	J			0	GE	µg/L
Lead, total recoverable	10	1	Y			0	WA	29	1				1	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	12	1	Y			0	WA	17	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	5.0	1	Y	■		2	WA	4.5	1				1	GE	µg/L
Trichlorofluoromethane	14	1	Y	■		2	WA	26	1		■		2	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	21	1	Y	■		0	WA	23	1		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	500	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	9,100	25	J			1	WA	5,300	10				1	GE	µg/L
pH	5.1	1	JY3	■	●	0	WA	5.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 1D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E+00	1	Y			0	GP	3.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	5.8E+00	1	Y			0	GP	3.9E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	2.5E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	-3.2E-01	1	UI			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	-2.1E-01	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	8.5E+01	1	UI			0	GP	pCi/L
Tritium	2.0E+02	1	Y	■		2	GP	9.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		-2.1E-01					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 2D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N78636.5 E52790.6	33.285827 °N 81.680542 °W	228.8-208.7 ft msl	305.8 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94 11/02/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	225.2	224.7	ft msl
pH	5.8	6.2	pH
Sp. conductance	98	103	µS/cm
Water temperature	23.7	20.9	°C
Alkalinity as CaCO ₃	29	31	mg/L
Turbidity	44.2	9.3	NTU
Volume purged	0.37	0.76	well volumes
Sampling code	X	X	
Synchronous water level	224.8 (09/29/94)	224.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	18	1	Y			0	WA	26	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	11	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	17	1	Y			0	WA	110	5		■		2	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1	JV2			0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	9.5	1	Y			0	WA	5.5	1	J			0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	1.0	1	J			0	GE	µg/L
Vanadium, total recoverable	5.7	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	38	1	Y	■		0	WA	16	1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	700	1	VY	■		2	WA								µg/L
Nitrate as nitrogen	310	1	J			0	WA	370	1				0	GE	µg/L
pH	6.7	1	JY3	■	●	0	WA	6.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane	3.7	1	JY3			1	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 2D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	9.4E-01	1	JY3			0	GP	1.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	7.0E-01	1	UIY			0	GP	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228	0.0E+00	1	UI			0	CN	5.2E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	1.2E+01	1				0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.8E+00	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	1.3E+02	1	UI			0	GP	pCi/L
Tritium	1.4E+01	1	Y			1	GP	1.3E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63	0.0E+00					0		1.8E+00					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 3D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N77765.2 E52465.2	33.283369 °N 81.679706 °W	226.0-205.9 ft msl	302 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94

11/02/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	222.7	231.0	ft msl
pH	7.9	7.8	pH
Sp. conductance	307	348	µS/cm
Water temperature	24.8	19.6	°C
Alkalinity as CaCO ₃	132	115	mg/L
Turbidity	7.8	13.5	NTU
Volume purged	0.36	0.24	well volumes
Sampling code	X	X	
Synchronous water level	222.2 (09/29/94)	221.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	2.5	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	190	1	Y			0	WA	320	2				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<4.0	2				0	GE	µg/L
Chromium, total recoverable	7.7	1	Y			0	WA	<8.0	2				0	GE	µg/L
Lead, total recoverable	3.8	1	Y			0	WA	1,200	40		■		2	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1	JV2			0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<4.0	2				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	5.4	1	Y			0	WA	<8.0	2				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	1.5	1	JY3			0	WA	1.3	1	J			0	GE	µg/L
Trichlorofluoromethane	19	1	Y	■		2	WA	15	1		■		2	GE	µg/L
Vanadium, total recoverable	6.8	1	Y			0	WA	<16	2				0	GE	µg/L
Zinc, total recoverable	25	1	Y	■		0	WA	<4.0	2				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<380	1	JVY2			0	WA								
Nitrate as nitrogen	1,600	5	J			0	WA	1,500	1				0	GE	µg/L
pH	8.1	1	JY3		●	1	WA	7.9	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 3D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.8E+00	1	JY3			0	GP	4.0E+00	1				0	GP	pCi/L
Nonvolatile beta	9.1E+00	1	Y			0	GP	7.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	4.3E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	1.4E-01	1	UI			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	3.0E-02	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	2.3E+01	1	UI			0	GP	pCi/L
Tritium	6.8E+01	1	Y	■		2	GP	5.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		3.0E-02					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N77452.4 E52230.4	33.282294 °N 81.679717 °W	224.1-204.0 ft msl	294.1 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94 11/02/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	217.1	216.6	ft msl
pH	5.4		pH
Sp. conductance	51		µS/cm
Water temperature	26.7		°C
Alkalinity as CaCO ₃	4		mg/L
Turbidity	4.6		NTU
Volume purged	0.47	0.49	well volumes
Sampling code	X	L	
Synchronous water level	216.6 (09/29/94)	216.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	11	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	6.5	1	Y			0	WA								µg/L
Lead, total recoverable	11	1	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA								µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	120	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	540	1	VY	■		2	WA								µg/L
Nitrate as nitrogen	1,700	5	J			0	WA								µg/L
pH	5.8	1	JY3	■	●	0	WA								pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 4D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.6E-02	1	UIY			0	GP								pCi/L
Nonvolatile beta	3.4E+00	1	Y			0	GP								pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN								pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN								pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN								pCi/L
Tritium	1.2E+01	1	Y			1	GP								pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0									pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 5D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N77047.7 E51903.3	33.280865 °N 81.679791 °W	223.7-203.5 ft msl	291.8 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94

11/02/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	220.7	219.9	ft msl
pH	5.6	5.5	pH
Sp. conductance	344	408	µS/cm
Water temperature	25	25.1	°C
Alkalinity as CaCO ₃	8	1	mg/L
Turbidity	2.4	4.9	NTU
Volume purged	4.1	7.7	well volumes
Sampling code			
Synchronous water level	220.2 (09/29/94)	219.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	35	1	Y			0	WA	47	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	6.8	1	Y			0	WA	3.3	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	4.2	1	Y			0	WA	7.0	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	2.0	1	JY3			0	WA	2.1	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	1.1	1	J			0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	20	1	Y			0	WA	11	1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	39	1	Y			1	WA								
Nitrate as nitrogen	37,000	100	J			2	WA	49,000	40				2	GE	µg/L
pH	5.8	1	JY3			0	WA	5.7	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 5D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+01	1	Y			1	GP	1.3E+01	1				1	GP	pCi/L
Nonvolatile beta	4.6E+02	1	Y	■		2	GP	3.2E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	1.7E-01	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	-5.3E-01	1	UI			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	5.5E-01	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	2.6E+01	1	UI			0	GP	pCi/L
Tritium	1.1E+03	1	Y	■		2	GP	1.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		5.5E-01					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 6D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N76733.1 E51727.9	33.279883 °N 81.679642 °W	222.1-202.1 ft msl	286.2 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94 11/03/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	219.7	219.0	ft msl
pH	4.7	5.3	pH
Sp. conductance	428	277	µS/cm
Water temperature	22.6	21.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.1	1.5	NTU
Volume purged	8.0	7.2	well volumes
Sampling code			
Synchronous water level	219.3 (09/29/94)	219.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	40	1	Y			0	WA	29	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	0.23	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	5.5	1	Y			0	WA	<4.0	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	2.9	1	JY3			1	WA	7.7	1		■		2	GE	µg/L
Trichlorofluoromethane	1.7	1	JY3			0	WA	5.6	1		■		1	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	27	1	Y	■		0	WA	16	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	210	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	41,000	100	J	■		2	WA	23,000	40		■		2	GE	µg/L
pH	5.0	1	JY3	■	●	0	WA	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 6D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.7E+00	1	Y			0	GP	3.4E+00	1				0	GP	pCi/L
Nonvolatile beta	3.6E+01	1	Y			1	GP	3.4E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	3.3E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	2.1E+00	1	UI			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.2E+00	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	-2.9E+01	1	UI			0	GP	pCi/L
Tritium	1.8E+03	1	Y	■		2	GP	8.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		1.2E+00					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 7D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N76327.8 E51485.6	33.278592 °N 81.679492 °W	219.6-199.5 ft msl	287.6 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/21/94 11/02/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	218.4	226.7	ft msl
pH	4.4	4.6	pH
Sp. conductance	768	661	µS/cm
Water temperature	22.9	13.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	5	4	NTU
Volume purged	0.32	0.22	well volumes
Sampling code	X	X	
Synchronous water level	217.9 (09/29/94)	217.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	67	1	Y			0	WA	50	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	6.4	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	3.1	1	Y			0	WA	3.0	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1	Y			0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	6.7	1	Y			0	WA	8.4	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1	Y			0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1	Y			0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1	Y			0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	13	1	Y			0	WA	7.6	1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	1,900	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	84,000	100	J	■		2	WA	88,000	80	Y	■		2	GE	µg/L
pH	4.5	1	JY3	■	●	0	WA	5.6	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1	Y			0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 7D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.0E+01	1	Y	■		2	GP	3.9E+01	1		■		2	GP	pCi/L
Nonvolatile beta	1.5E+02	1	Y	■		2	GP	7.6E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	4.5E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	-8.2E-01	1	UI			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	-2.8E-02	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	4.6E+01	1	UI			0	GP	pCi/L
Tritium	2.5E+03	1	Y	■		2	GP	2.1E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		-2.8E-02					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 8D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N76054.7 E51513.5	33.278033 °N 81.678888 °W	222.8-202.7 ft msl	290.8 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/15/94 11/02/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	217.6	216.7	ft msl
pH	5.1	5.3	pH
Sp. conductance	69	59	µS/cm
Water temperature	22.1	20.5	°C
Alkalinity as CaCO ₃	1	3	mg/L
Turbidity	0.8	1.4	NTU
Volume purged	6.5	6.5	well volumes
Sampling code			
Synchronous water level	217.0 (09/29/94)	216.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	14	1	Y			0	WA	14	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	7.9	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1	JV2			0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	5.2	1	Y			0	WA	<4.0	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	1.3	1	JY			0	WA	2.5	1				1	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	3.1	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	<160	1	JVY3			0	WA	8.8	1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								
Nitrate as nitrogen	4,000	10	Y			0	WA	3,900	4				0	GE	µg/L
pH	5.4	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane	2.9	1	JY3			1	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 8D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.2E-01	1	UI			0	GP	1.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.2E+00	1	J3			0	GP	3.0E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	6.4E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	0.0E+00	1	UI			0	CN	-4.2E-01	1	UI			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.2E-01	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	6.2E+01	1	UI			0	GP	pCi/L
Tritium	3.0E+01	1		■		2	GP	2.2E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		1.2E-01					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

WELL FSL 9D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N75768.4 E51543.9	33.277450 °N 81.678252 °W	221.5-201.4 ft msl	285.9 ft msl	2" PVC	V	Water Table (IIB ₂)

SAMPLE DATE 07/19/94 11/03/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	216.3	215.6	ft msl
pH	4.6	5	pH
Sp. conductance	178	98	µS/cm
Water temperature	22.4	20.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.1	2	NTU
Volume purged	9.4	6.4	well volumes
Sampling code			
Synchronous water level	215.8 (09/29/94)	215.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	73	1	Y			0	WA	48	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	24	1	Y			0	WA	<3.0	1				0	GE	µg/L
Mercury, total recoverable	2.6	1	Y	■		2	WA	1.4	1				1	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	13	1	Y			0	WA	8.3	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	1.9	1	JY			0	WA	2.0	1				0	GE	µg/L
Trichlorofluoromethane	7.0	1	Y	■		1	WA	6.6	1		■		1	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	55	1	Y	■		0	WA	32	1		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	3,800	1	Y	■		2	WA								
Nitrate as nitrogen	18,000	25	Y	■		2	WA	11,000	20		■		2	GE	µg/L
pH	4.3	1	JY3	■	●	0	WA	4.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL FSL 9D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.6E+01	1		■		2	GP	8.4E+01	1		■		2	GP	pCi/L
Nonvolatile beta	3.3E+02	1		■		2	GP	3.0E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	CN	8.0E+00	1	UI			0	GP	pCi/L
Americium-241															
Cesium-137	3.6E+00	1				0	CN	7.9E+00	1	J			0	GP	pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	3.3E+00	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	6.2E+01	1	UI			0	GP	pCi/L
Tritium	9.6E+02	1		■		2	GP	4.6E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		3.3E+00					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N73791.9 E58943.4	33.285152 °N 81.654930 °W	71.1-61.1 ft msl	294.4 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE 07/05/94 10/19/94

FIELD DATA

<u>Parameter</u>	<u>3Q94</u>	<u>4Q94</u>	<u>Unit</u>
Water elevation	168.3	168.5	ft msl
pH	7	6.9	pH
Sp. conductance	197	201	µS/cm
Water temperature	20.5	19.8	°C
Alkalinity as CaCO ₃	58	75	mg/L
Turbidity	0.1	0.2	NTU
Volume purged	2.9	2.2	well volumes
Sampling code			
Synchronous water level	167.9 (09/29/94)	168.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

Hazardous Constituents (261 App. VIII/264 App. IX)

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Phenols															
Tetrachloroethylene	<1.0	1	Y			0	WA								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.0	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.4	1	JY3		●	0	WA	7.1	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Bis(2-ethylhexyl) phthalate															
Dichloromethane															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

● = exceeded holding time.

■ = exceeded groundwater protection standard.

WELL HSB 85A (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	5.8E-01	1	UI			0	GP	2.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	1.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228															
Americium-241															
Cesium-137															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E-01	1	UI			0	GP	3.2E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>3Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>4Q94</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243															
Nickel-63															
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.

- = exceeded holding time.
- = exceeded groundwater protection standard.

Appendix E

Data Quality/Usability Assessment

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Data Quality/Usability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory and are reviewed prior to publication of results. The review by the Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; its review of the QA/QC data cannot be completed in time to meet the deadlines for the reports required by the Resource Conservation and Recovery Act and associated regulations. Other site and regulatory personnel can obtain further information on the data quality and usability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QA/QC information either at the same time as analytical results or in quarterly summaries. Properly defined and used result modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Result modifiers designed by EPD/EMS and used by the primary laboratories are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by analysis of results obtained from known samples. The non-radionuclide contract laboratories analyze commercial reference samples every quarter at EPD/EMS' request. The results of these analyses are presented in the EPD/EMS groundwater monitoring quarterly reports. The primary laboratories also seek or maintain state certification by participating periodically in performance studies; reference samples and analysis of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceed established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches.

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples and blanks in each analytical batch. In analyses of semivolatile organics, three acid compounds and three base/neutral compounds are used. Two surrogates are used in organochlorine pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered into the database, but they are not published. If recoveries are not within specified limits, the laboratory is expected to reanalyze the samples or attach qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A sample is analyzed unspiked to determine a baseline set of values. A second portion of the sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically five volatile organic compounds for volatile organics analyses, eleven semivolatile compounds for semivolatiles, six pesticide compounds for pesticides, all metals for metals analyses by SW-846 methods (EPA, 1986), and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS but are not published. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a laboratory is having a systematic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers assigned by the laboratories on the basis of the percentage of spike recovery are reported in the published results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates initiated by the laboratory and blind replicates provided by EPD/EMS. The results of duplicate and replicate analyses are presented in those results tables of the quarterly reports which report only one quarter of data, usually during first, second, and third quarters. Duplicate and replicate results are not presented in results tables that report more than one quarter of data, generally provided in fourth quarter reports. In this case, the results tables instead present only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference (RPD) for each pair of laboratory-initiated duplicate results. One of the contract laboratories uses a data qualifier (J3) to modify metals analyses when the RPD for laboratory duplicates is greater than 20 percent.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the mean relative difference (MRD) which is similar to EPA's RPD except that the MRD is the average of all the RPD values from one laboratory for each compound (intralaboratory MRD) or all the RPD values from all laboratories for each compound (interlaboratory MRD), during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all duplicate and replicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important component of determining data usability. EPA has conducted extensive research and

development on the methods approved for the analysis of water and waste water; information on the accuracy and precision of a method is available from EPA publications, as is full information on required QA/QC procedures. A listing of the methods used by the primary laboratories during fourth quarter 1993 is given below along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results.

Methods Used by the Contract Laboratories

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
EPA120.1	Specific conductance	EPA EMSL, 1983
EPA150.1	pH	EPA EMSL, 1983
EPA160.1	Total dissolved solids	EPA EMSL, 1983
EPA160.2	Total dissolved solids, total suspended solids	EPA EMSL, 1983
EPA180.1	Turbidity	EPA EMSL, 1983
EPA200.7	Metals	EPA EMSL, 1983
EPA204.2	Antimony	EPA EMSL, 1983
EPA206.2	Arsenic	EPA EMSL, 1983
EPA239.2	Lead	EPA EMSL, 1983
EPA245.1	Mercury	EPA EMSL, 1983
EPA270.2	Selenium	EPA EMSL, 1983
EPA279.2	Thallium	EPA EMSL, 1983
EPA300.0	Chloride, nitrite, sulfate	EPA EMSL, 1991
EPA310.1	Alkalinity	EPA EMSL, 1983
EPA325.2	Chloride	EPA EMSL, 1983
EPA335.3	Cyanide	EPA EMSL, 1983
EPA340.2	Fluoride	EPA EMSL, 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL, 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL, 1983
EPA365.1	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA376.2	Sulfide	EPA EMSL, 1983
EPA413.1	Oil & grease	EPA EMSL, 1983
EPA415.1	Dissolved organic carbon, total inorganic carbon, total organic carbon	EPA EMSL, 1983
EPA418.1	Total petroleum hydrocarbons	EPA EMSL, 1983
EPA420.2	Phenols	EPA EMSL, 1983
EPA900.0	Gross alpha, nonvolatile beta	EPA EMSL, 1980
EPA900.1	Total alpha-emitting radium	EPA EMSL, 1980
EPA906.0	Tritium	EPA EMSL, 1980
EPA6010	Metals	EPA, 1986
EPA7041	Antimony	EPA, 1986
EPA7060	Arsenic	EPA, 1986
EPA7421	Lead	EPA, 1986
EPA7470	Mercury	EPA, 1986
EPA7740	Selenium	EPA, 1986
EPA7841	Thallium	EPA, 1986
EPA8010	Chlorinated volatile organics	EPA, 1986
EPA8080	Organochlorine pesticides and PCBs	EPA, 1986
EPA8150	Chlorinated herbicides	EPA, 1986
EPA8240	GCMS volatiles	EPA, 1986
EPA8270	GCMS semivolatiles	EPA, 1986
EPA8280	Dioxins and furans	EPA, 1986
EPA9012	Cyanide	EPA, 1986
EPA9020	Total organic halogens	EPA, 1986
EPA9020A	Total organic halogens	EPA, 1986
EPA9030	Sulfide	EPA, 1986

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
EPA9060	Dissolved organic carbon, total inorganic carbon, total organic carbon	EPA, 1986

An example of available method-specific QA/QC information is that for the analysis of metals by EPA Method 6010/200.7 (EPA, 1986/EPA EMSL, 1983). The primary laboratories, General Engineering Laboratories (GE) and Roy F. Weston, Inc. (Weston), use this inductively coupled plasma (ICP) atomic emission spectrometric method.

The following precision and accuracy data are based on the experience of seven laboratories that applied the ICP technique to acid-distilled water matrices that had been spiked with various metal concentrates. (Note: Not all seven laboratories analyzed all 14 elements.) The references give results for samples having three concentration ranges; the results here are for samples having the lowest values, similar to actual groundwater results for SRS.

ICP Precision and Accuracy Data

<u>Element</u>	<u>True value ($\mu\text{g/L}$)</u>	<u>Mean reported value ($\mu\text{g/L}$)</u>	<u>Mean percent RSD^a</u>
Aluminum	60	62	33
Arsenic	22	19	23
Beryllium	20	20	9.8
Cadmium	2.5	2.9	16
Chromium	10	10	18
Cobalt	20	20	4.1
Copper	11	11	40
Iron	20	19	15
Lead	24	30	32
Manganese	15	15	6.7
Nickel	30	28	11
Selenium	6	8.5	42
Vanadium	70	69	2.9
Zinc	16	19	45

^a Relative standard deviation. In EPA (1986), the column heading is Mean Standard Deviation (%).

As another example, EPA Method 601/8010 (EPA, 1991/EPA, 1986) is used by both GE and Weston for analyses of halogenated volatile organics. In the presentation of the method in both references, the following table gives method-specific accuracy and precision as functions of concentration. Contract laboratories are expected to achieve or at least approach these limits.

Accuracy and Precision as Functions of Concentration for EPA Method 601/8010

<u>Parameter</u>	<u>Accuracy as recovery, $\bar{X}$^a ($\mu\text{g/L}$)</u>	<u>Single analyst precision ($\mu\text{g/L}$)^b</u>	<u>Overall precision ($\mu\text{g/L}$)^c</u>
Bromodichloromethane	1.12C-1.02 ^d	0.11 $\bar{X}$ +0.04 ^e	0.20 $\bar{X}$ +1.00
Bromoform	0.96C-2.05	0.12 $\bar{X}$ +0.58	0.21 $\bar{X}$ +2.41
Bromomethane	0.76C-1.27	0.28 $\bar{X}$ +0.27	0.36 $\bar{X}$ +0.94
Carbon tetrachloride	0.98C-1.04	0.15 $\bar{X}$ +0.38	0.20 $\bar{X}$ +0.39
Chlorobenzene	1.00C-1.23	0.15 $\bar{X}$ -0.02	0.18 $\bar{X}$ +1.21
Chloroethane	0.99C-1.53	0.14 $\bar{X}$ -0.13	0.17 $\bar{X}$ +0.63
2-Chloroethyl vinyl ether ^f	1.00C	0.20 $\bar{X}$	0.35 $\bar{X}$

<u>Parameter</u>	<u>Accuracy as recovery, X' ($\mu\text{g/L}$)</u>	<u>Single analyst precision ($\mu\text{g/L}$)</u>	<u>Overall precision ($\mu\text{g/L}$)</u>
Chloroform	$0.93C-0.39$	$0.13\bar{X}+0.15$	$0.19\bar{X}-0.02$
Chloromethane ^c	$0.77C+0.18$	$0.28\bar{X}-0.31$	$0.52\bar{X}+1.31$
Dibromochloromethane	$0.94C+2.72$	$0.11\bar{X}+1.10$	$0.24\bar{X}+1.68$
1,2-Dichlorobenzene	$0.93C+1.70$	$0.20\bar{X}+0.97$	$0.13\bar{X}+6.13$
1,3-Dichlorobenzene	$0.95C+0.43$	$0.14\bar{X}+2.33$	$0.26\bar{X}+2.34$
1,4-Dichlorobenzene	$0.93C-0.09$	$0.15\bar{X}+0.29$	$0.20\bar{X}+0.41$
1,1-Dichloroethane	$0.95C-1.08$	$0.09\bar{X}+0.17$	$0.14\bar{X}+0.94$
1,2-Dichloroethane	$1.04C-1.06$	$0.11\bar{X}+0.70$	$0.15\bar{X}+0.94$
1,1-Dichloroethene	$0.98C-0.87$	$0.21\bar{X}-0.23$	$0.29\bar{X}-0.40$
trans-1,2-Dichloroethene	$0.97C-0.16$	$0.11\bar{X}+1.46$	$0.17\bar{X}+1.46$
Dichloromethane (Methylene chloride)	$0.91C-0.93$	$0.11\bar{X}+0.33$	$0.21\bar{X}+1.43$
1,2-Dichloropropane ^f	$1.00C$	$0.13\bar{X}$	$0.23\bar{X}$
cis-1,3-Dichloropropene ^f	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
trans-1,3-Dichloropropene ^f	$1.00C$	$0.18\bar{X}$	$0.32\bar{X}$
1,1,2,2-Tetrachloroethane	$0.95C+0.19$	$0.14\bar{X}+2.41$	$0.23\bar{X}+2.79$
Tetrachloroethylene	$0.94C+0.06$	$0.14\bar{X}+0.38$	$0.18\bar{X}+2.21$
1,1,1-Trichloroethane	$0.90C-0.16$	$0.15\bar{X}+0.04$	$0.20\bar{X}+0.37$
1,1,2-Trichloroethane	$0.86C+0.30$	$0.13\bar{X}-0.14$	$0.19\bar{X}+0.67$
Trichloroethylene	$0.87C+0.48$	$0.13\bar{X}-0.03$	$0.23\bar{X}+0.30$
Trichlorofluoromethane	$0.89C-0.07$	$0.15\bar{X}+0.67$	$0.26\bar{X}+0.91$
Vinyl chloride	$0.97C-0.36$	$0.13\bar{X}+0.65$	$0.27\bar{X}+0.40$

- ^a X' = expected recovery for one or more measurements of a sample containing a concentration of C , in $\mu\text{g/L}$.
^b Expected single analyst standard deviation of measurements.
^c Expected interlaboratory standard deviation of measurements.
^d C = true value for the concentration, in $\mu\text{g/L}$.
^e $\bar{X}$ = average recovery found for measurements of samples containing a concentration of C , in $\mu\text{g/L}$.
^f Estimates based on performance of a single laboratory.

References Cited

- EPA (U.S. Environmental Protection Agency), 1986. **Test Methods for Evaluating Solid Waste (SW-846)**, Volumes IA-IC. Washington, DC.
- EPA (U.S. Environmental Protection Agency), 1991. *Guidelines Establishing Test Procedures for the Analysis of Pollutants, Code of Federal Regulations*, Title 40, Part 136, Appendix A. Washington, DC.
- EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1980. **Prescribed Procedures for Measurement of Radioactivity in Drinking Water**, EPA-600/4-80-032. Cincinnati, OH.
- EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1983. **Methods for Chemical Analysis of Water and Wastes**. Cincinnati, OH.
- EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1991. **Test Method, The Determination of Inorganic Anions in Water by Ion Chromatography—Method 300.0**. Cincinnati, OH.

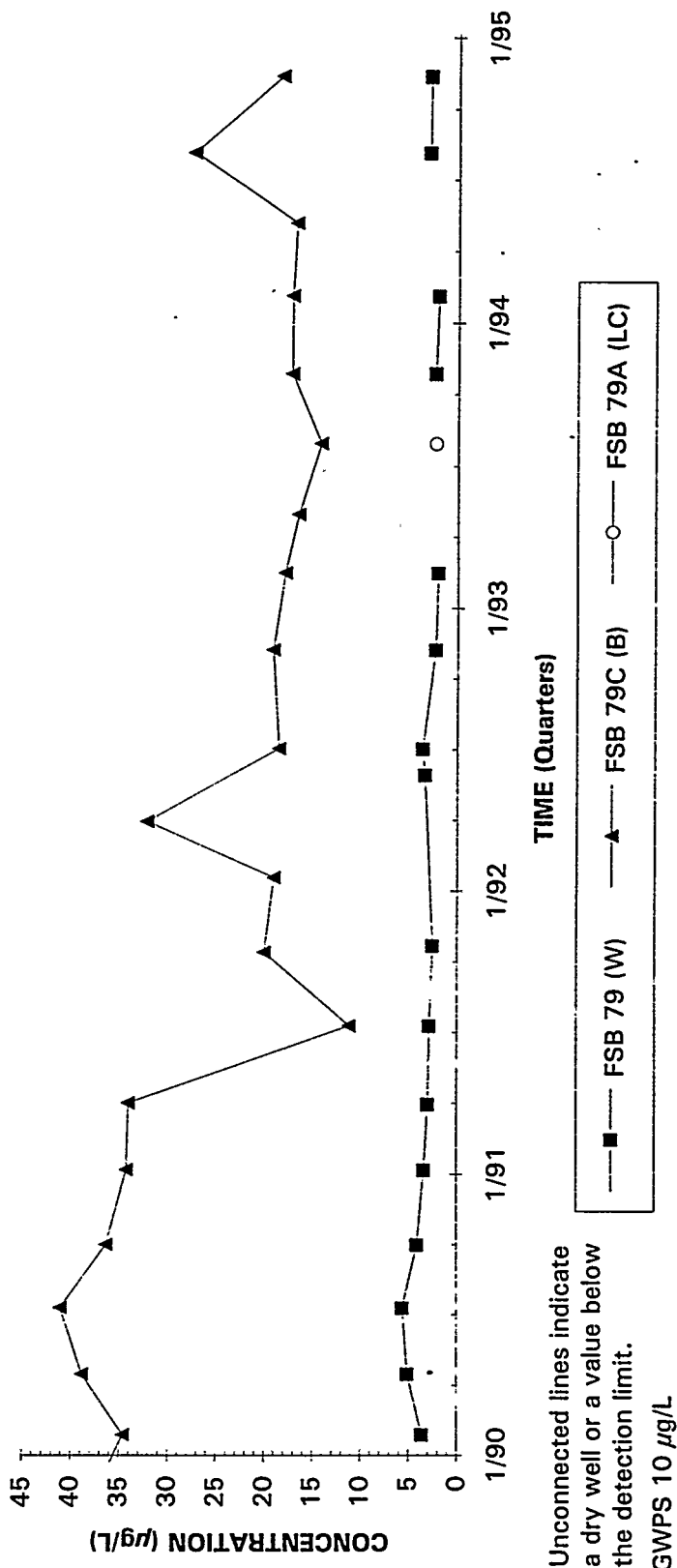
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Appendix F

Time Series Plots

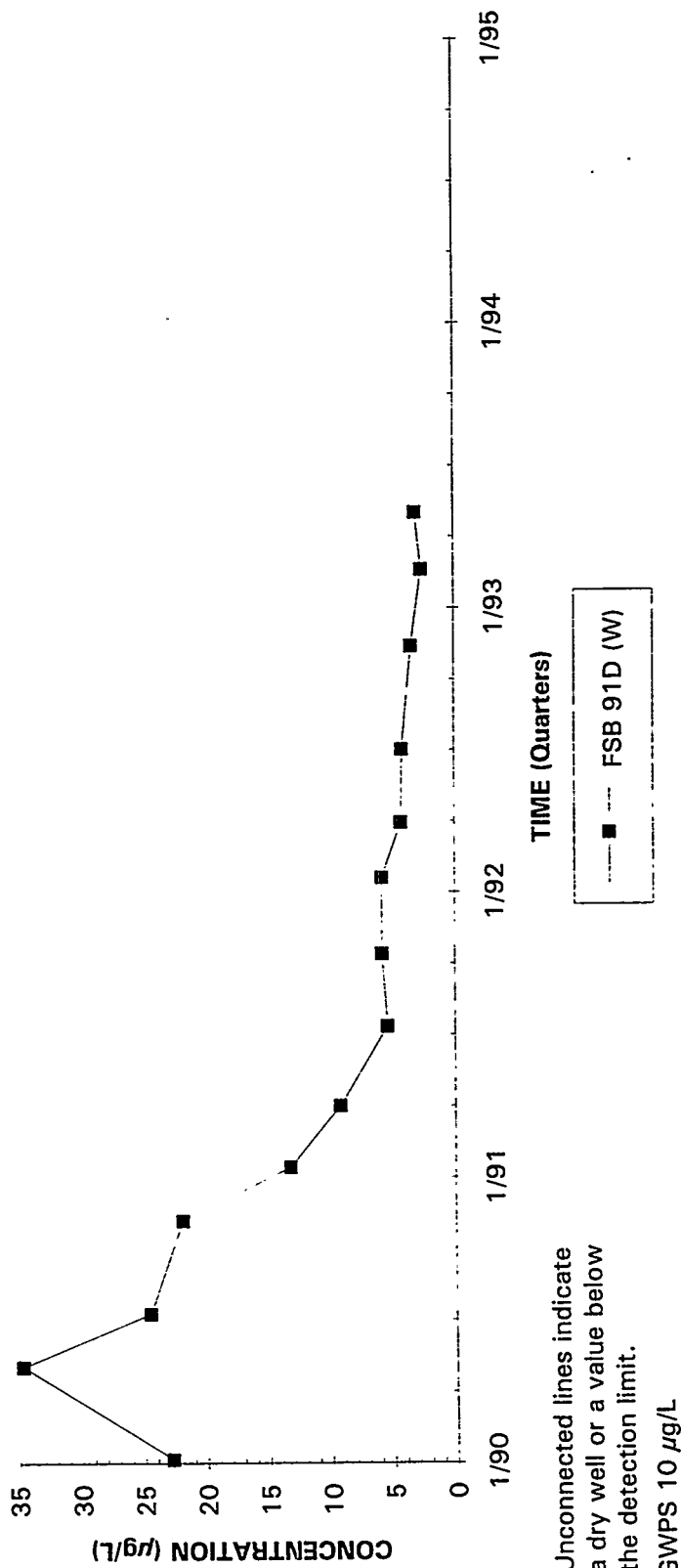
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Cadmium Concentrations Well Cluster FSB 79



Note: W=Water Table (IIB1); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

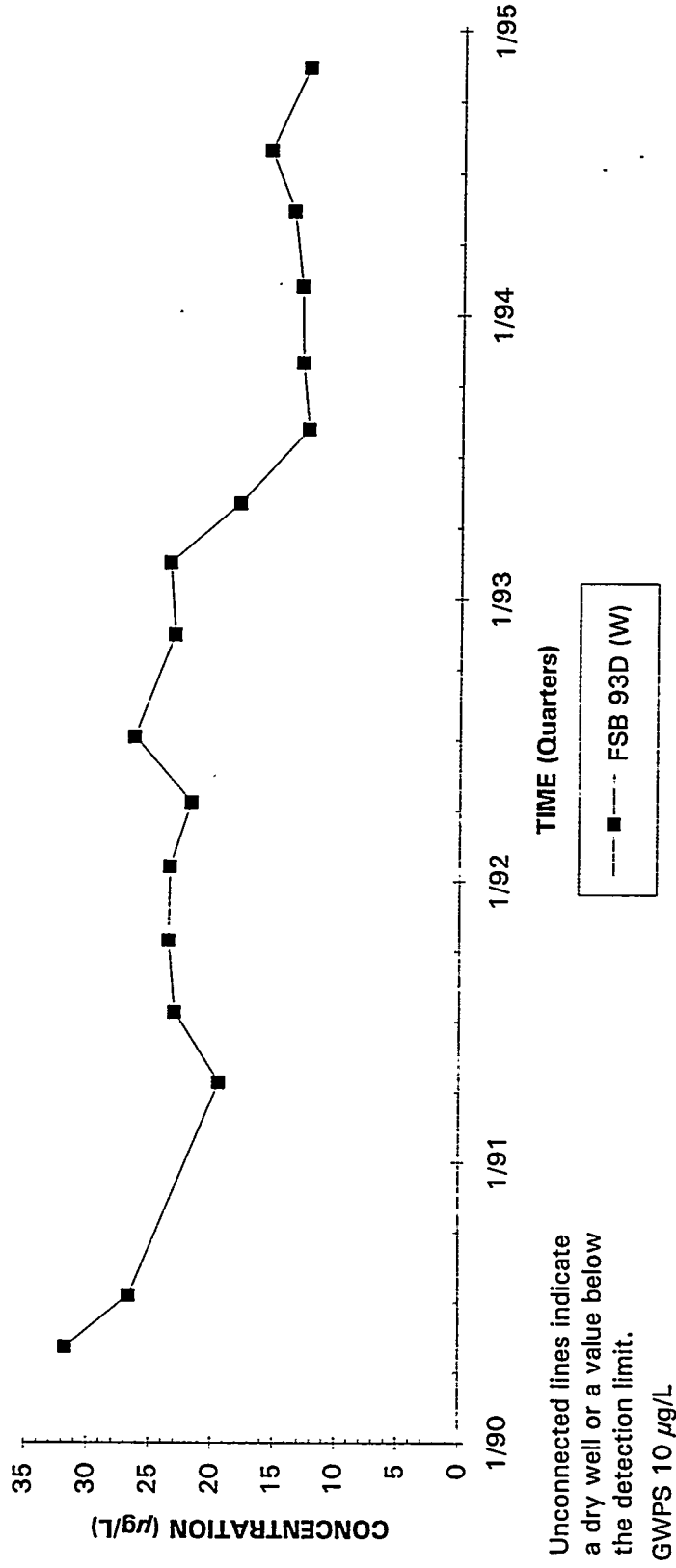
Cadmium Concentrations Well FSB 91D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

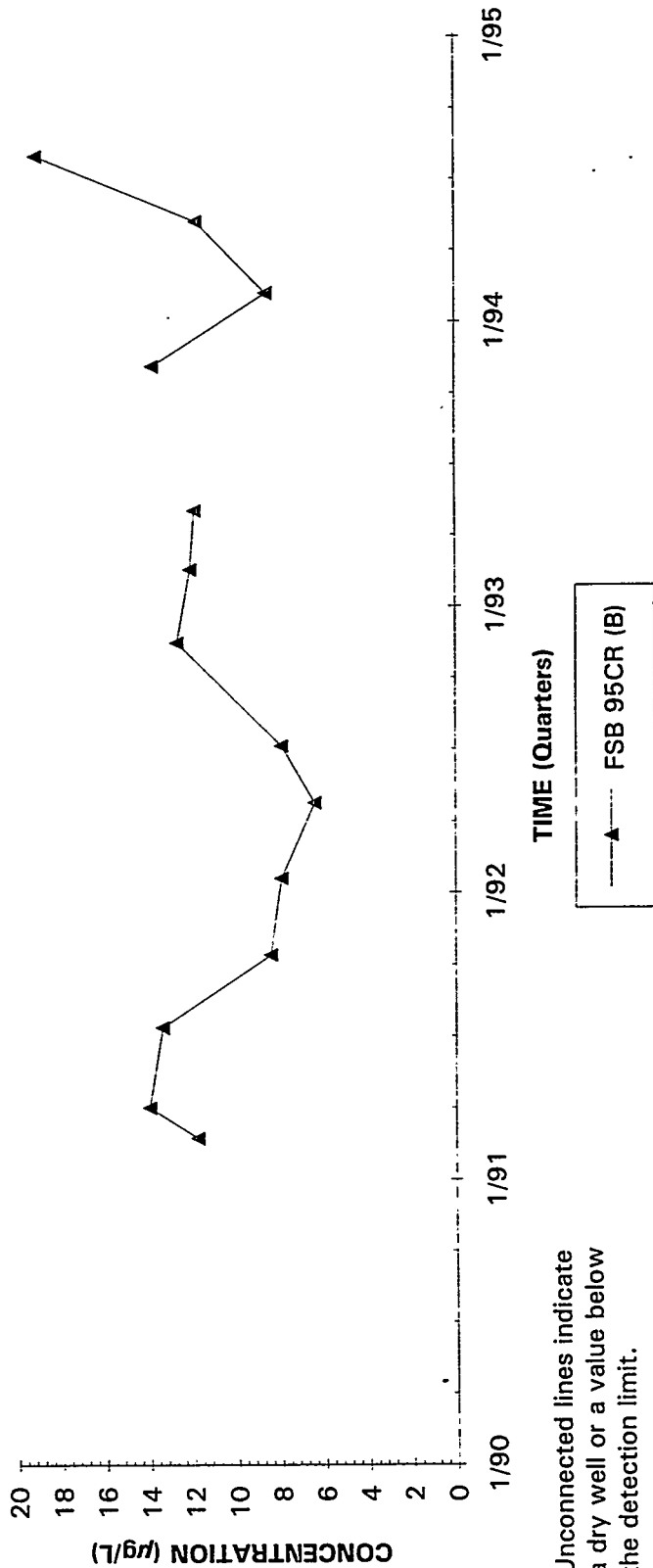
Third and Fourth Quarters 1994

Cadmium Concentrations Well FSB 93D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations Well FSB 95CR



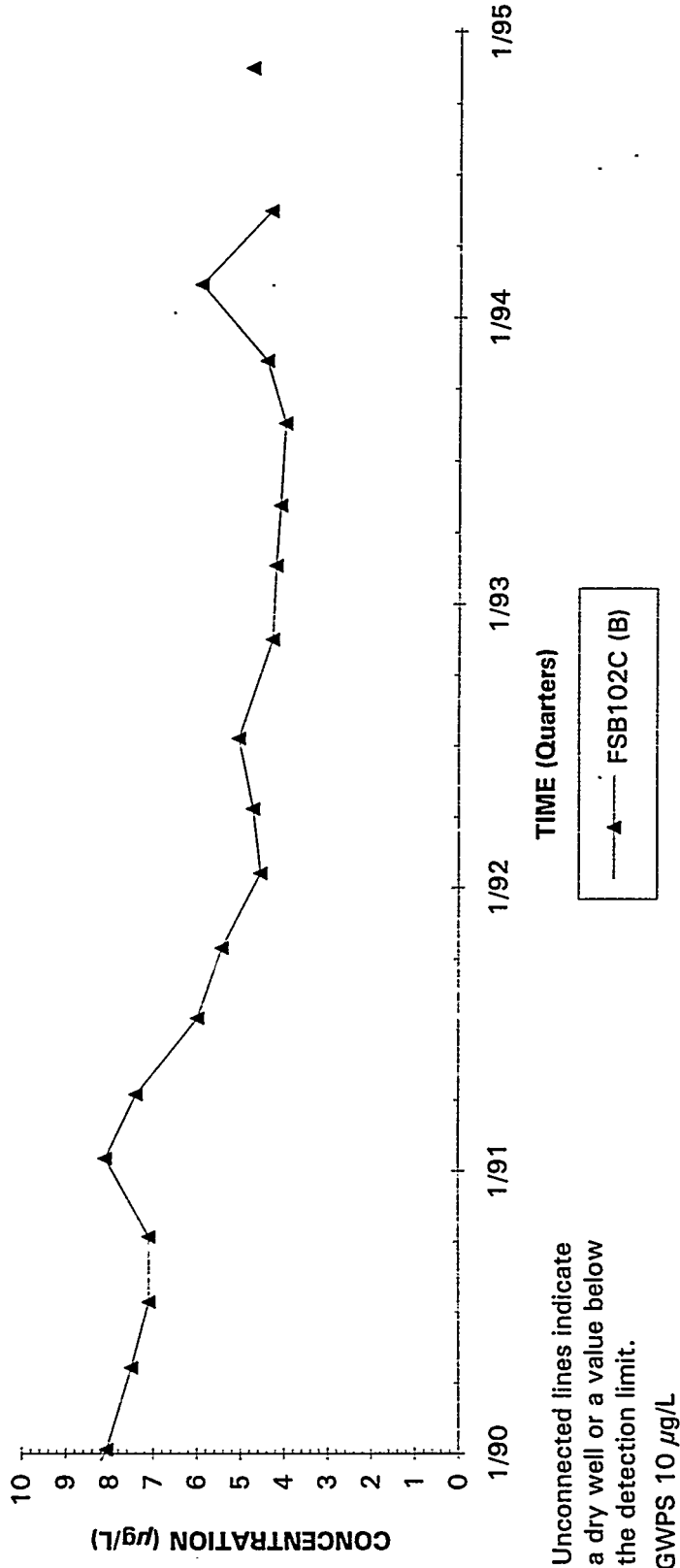
Unconnected lines indicate
a dry well or a value below
the detection limit.

GWPS 10 µg/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

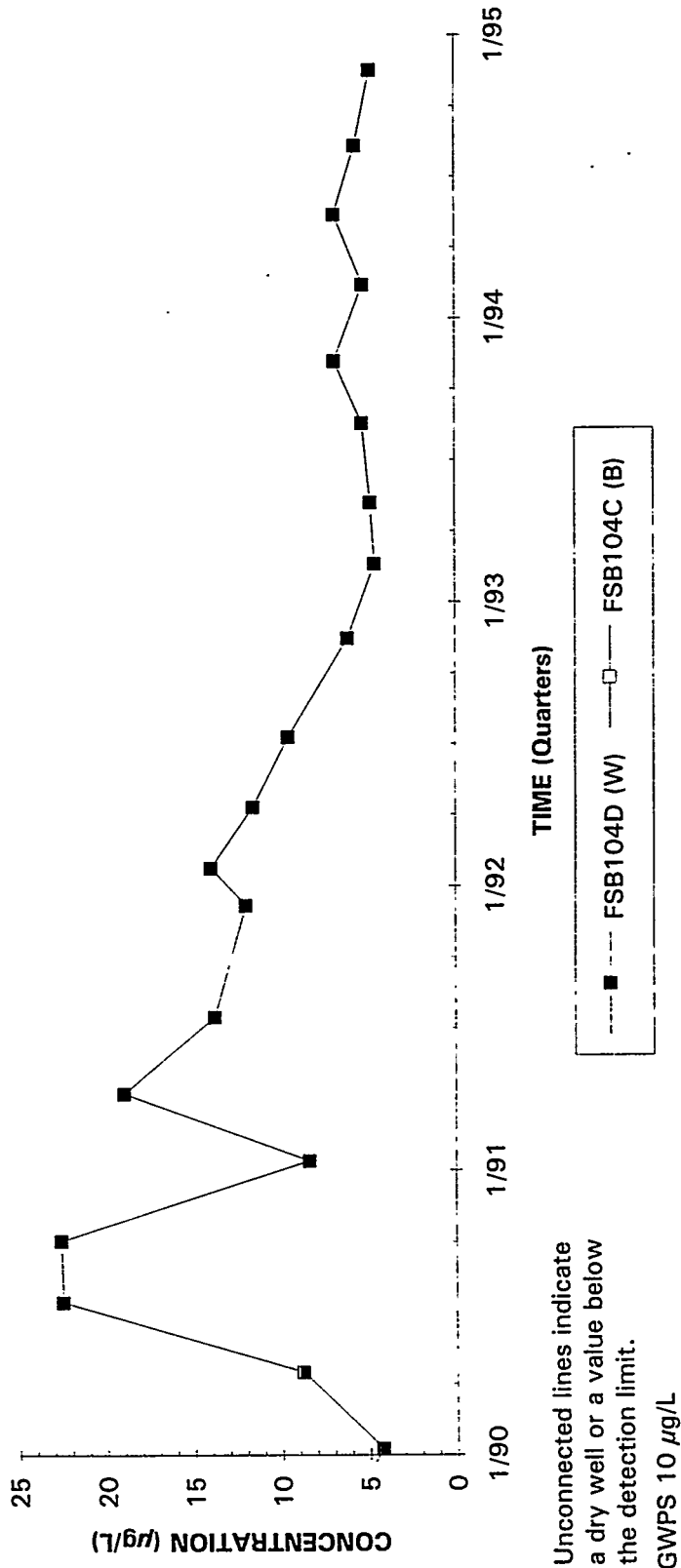
Third and Fourth Quarters 1994

Cadmium Concentrations Well FSB102C



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations Well Cluster FSB104

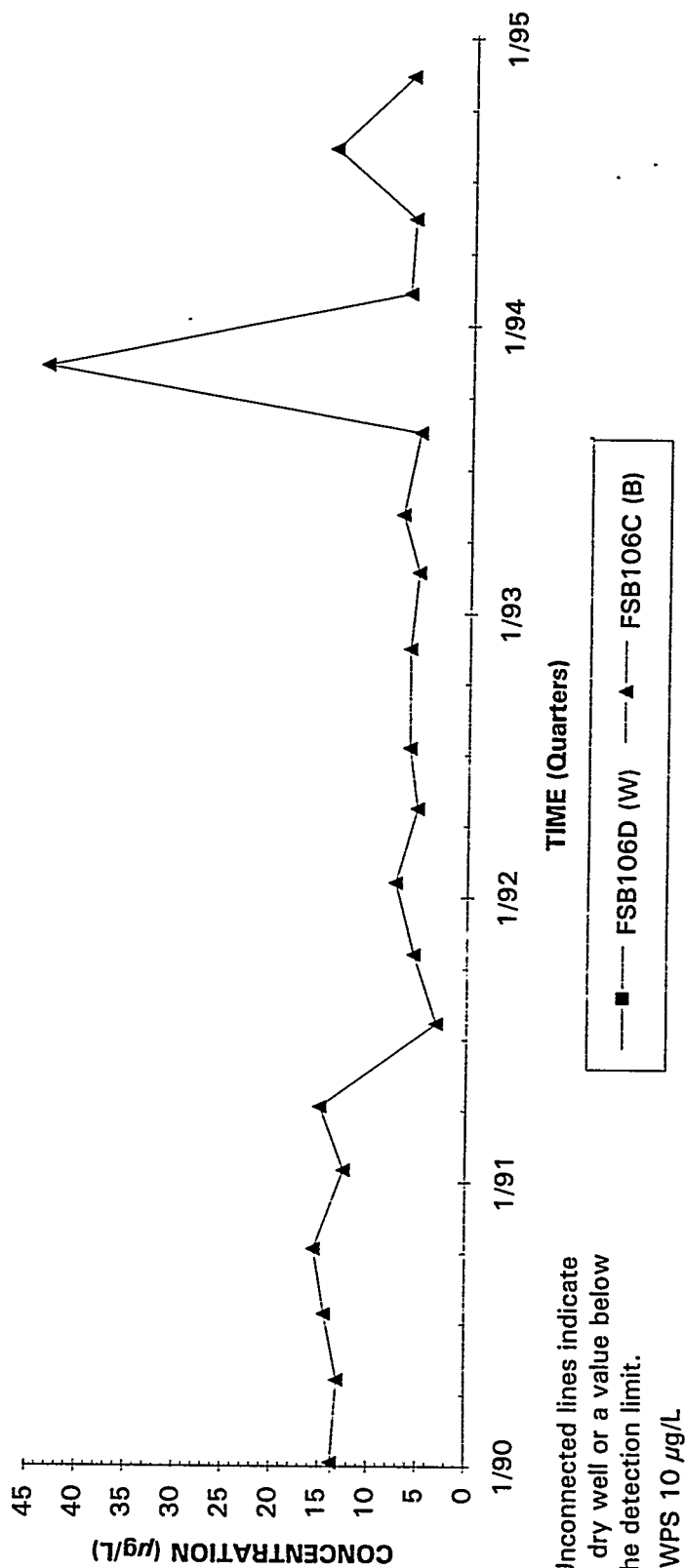


Unconnected lines indicate a dry well or a value below the detection limit.

GWPS 10 µg/L

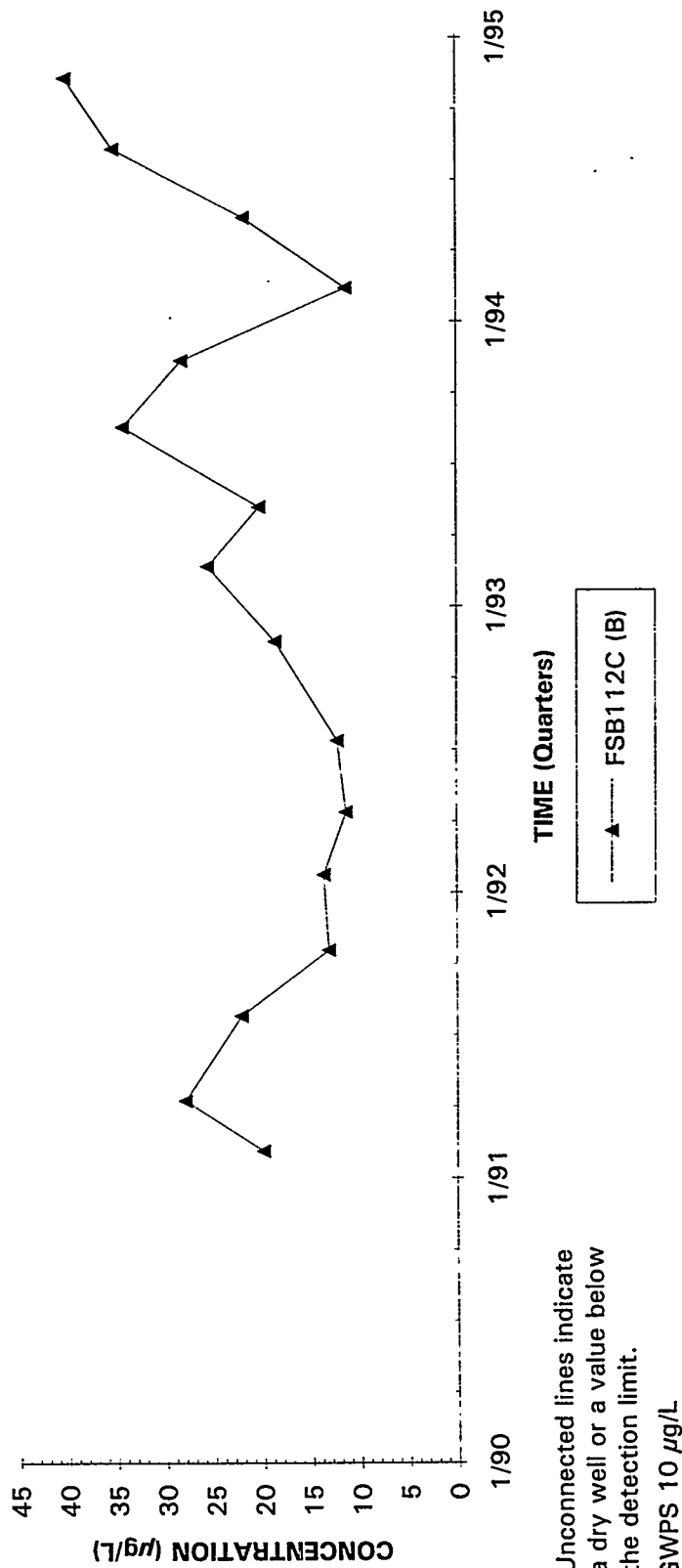
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations Well Cluster FSB106



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations Well FSB112C



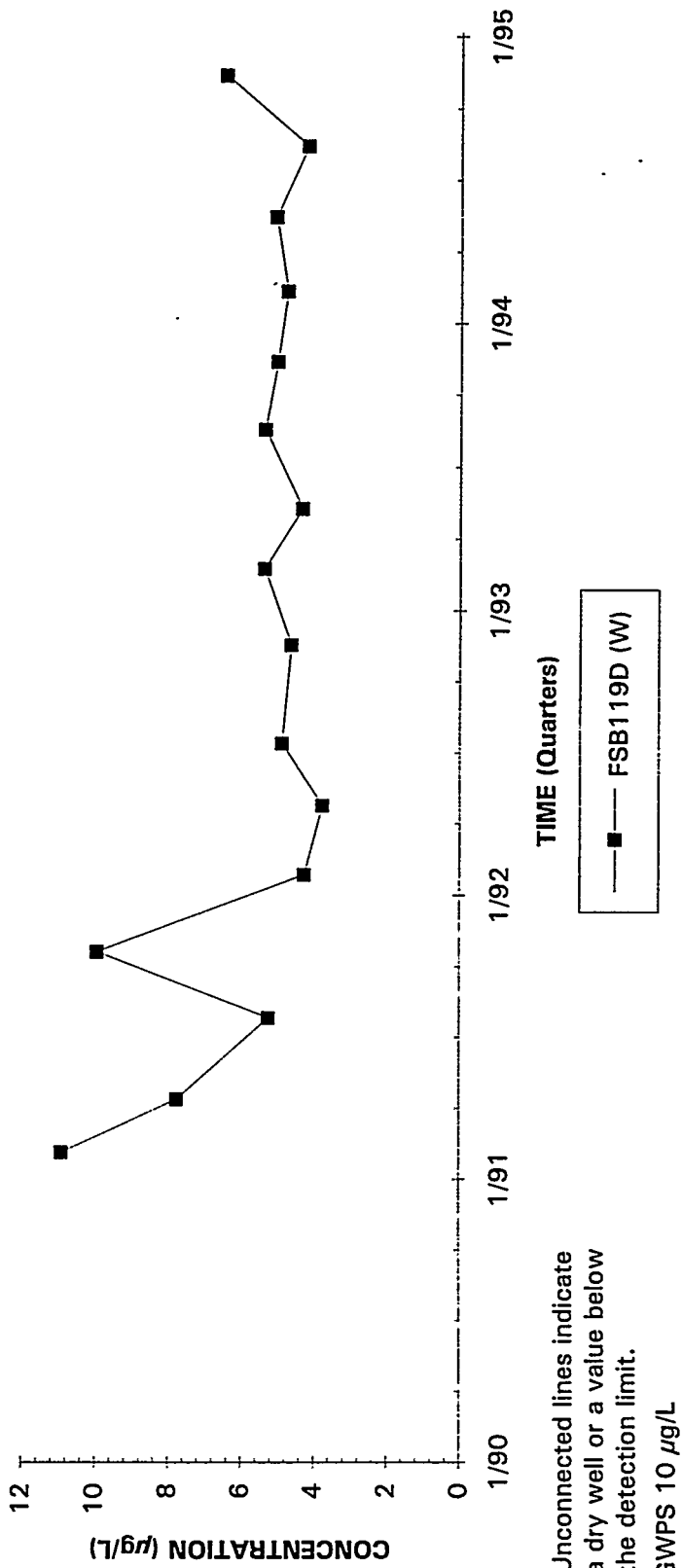
Unconnected lines indicate
a dry well or a value below
the detection limit.

GWPS 10 µg/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

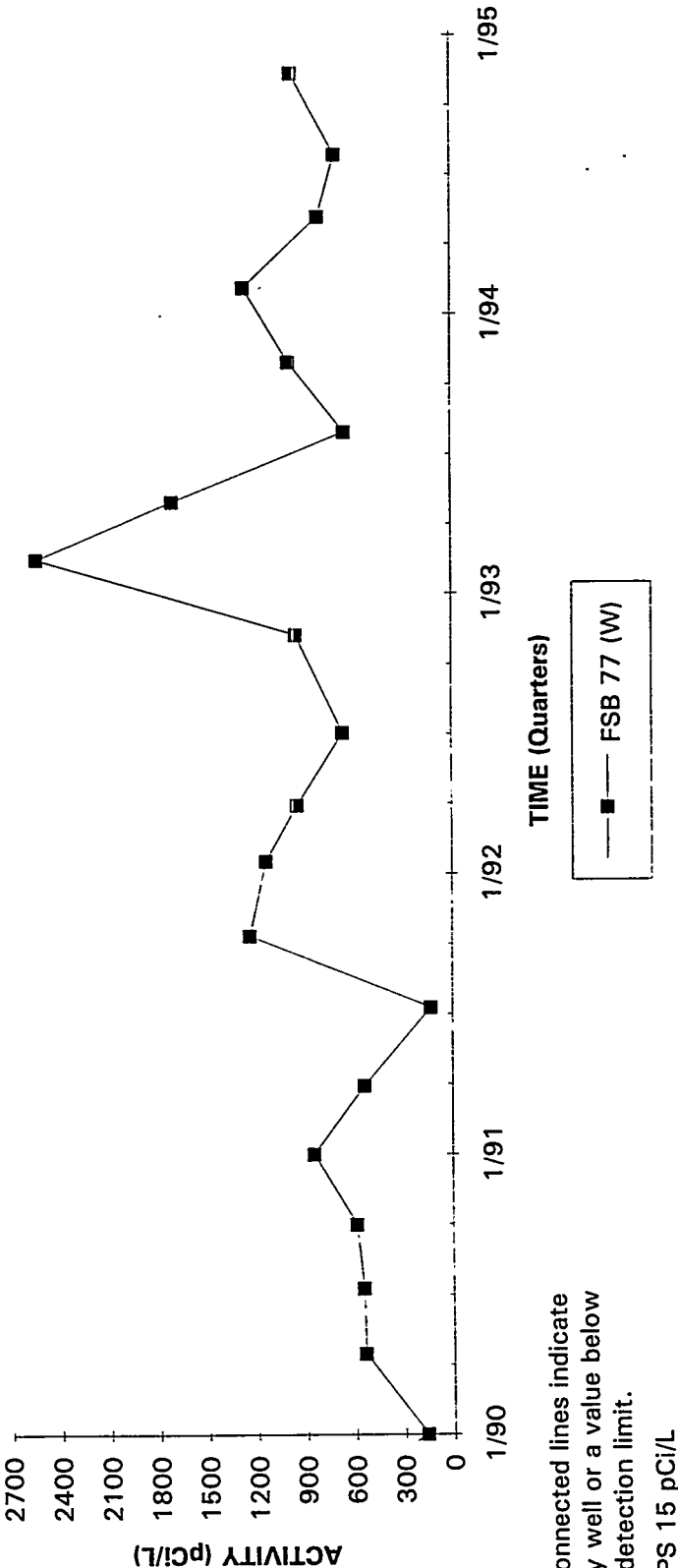
Third and Fourth Quarters 1994

Cadmium Concentrations Well FSB119D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well FSB 77

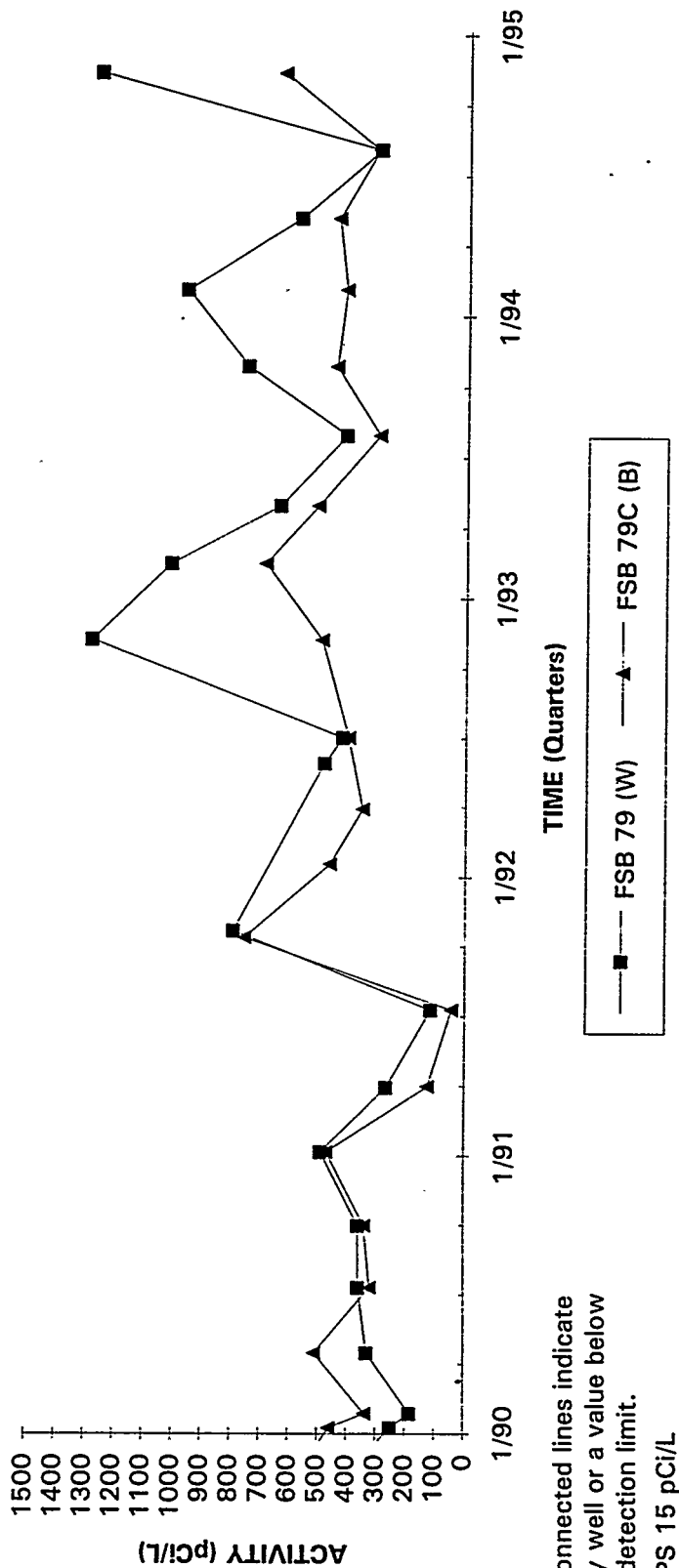


Unconnected lines indicate
a dry well or a value below
the detection limit.

GWPS 15 pCi/L

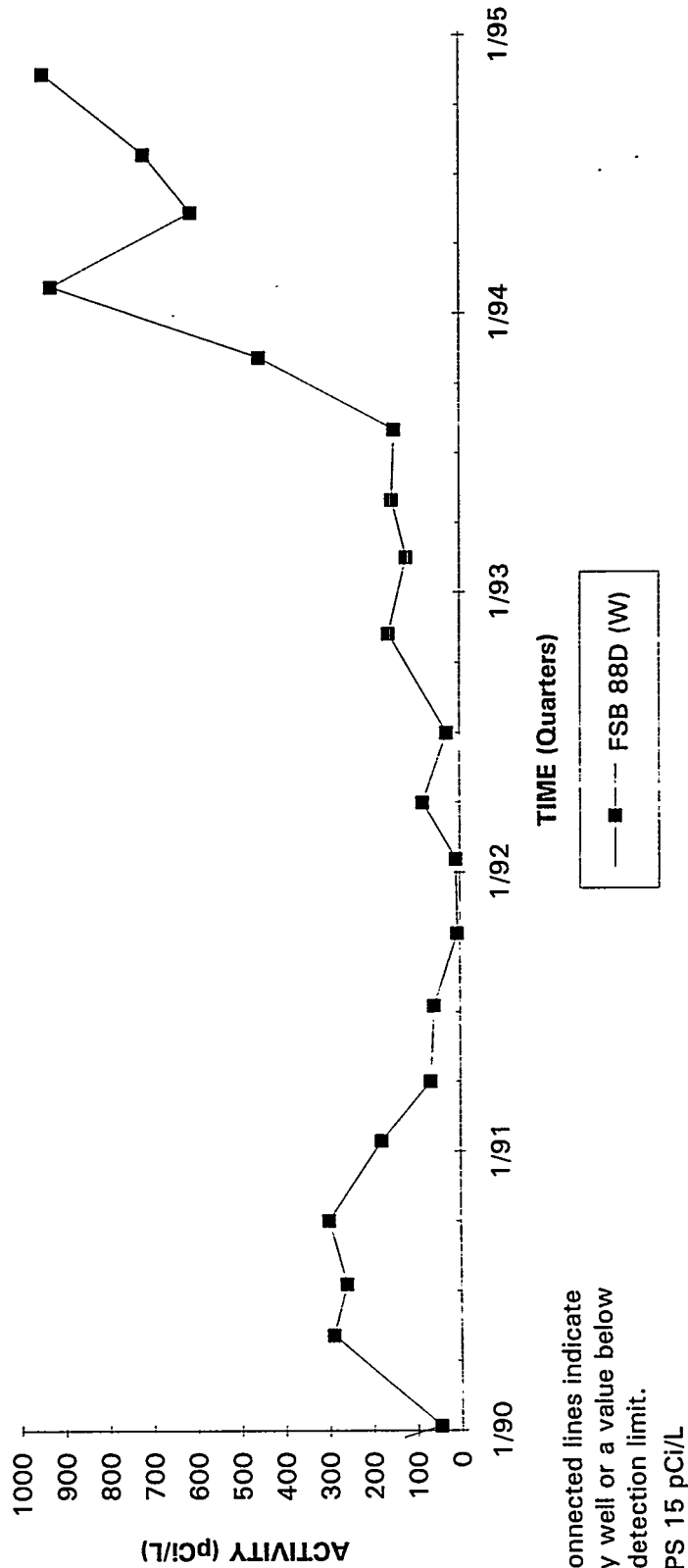
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 79

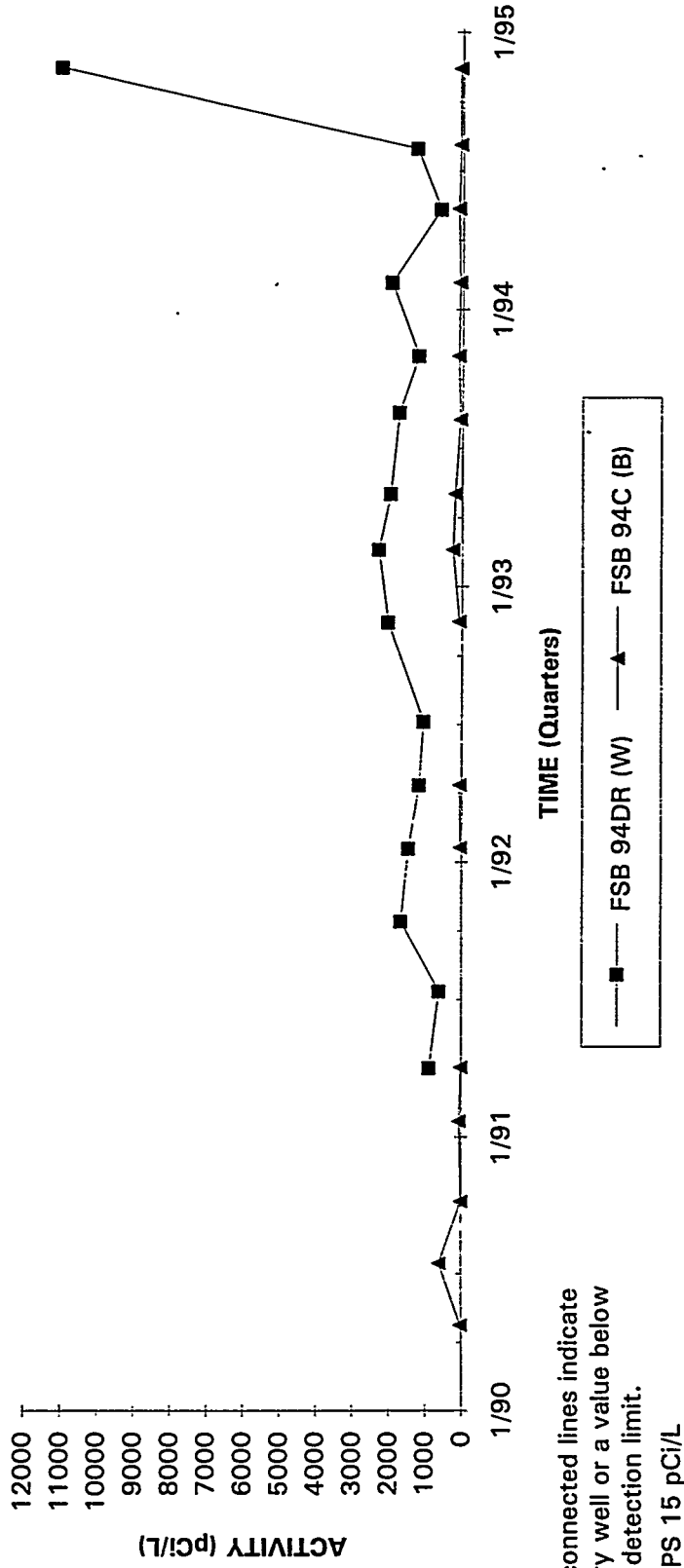


Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well FSB 88D

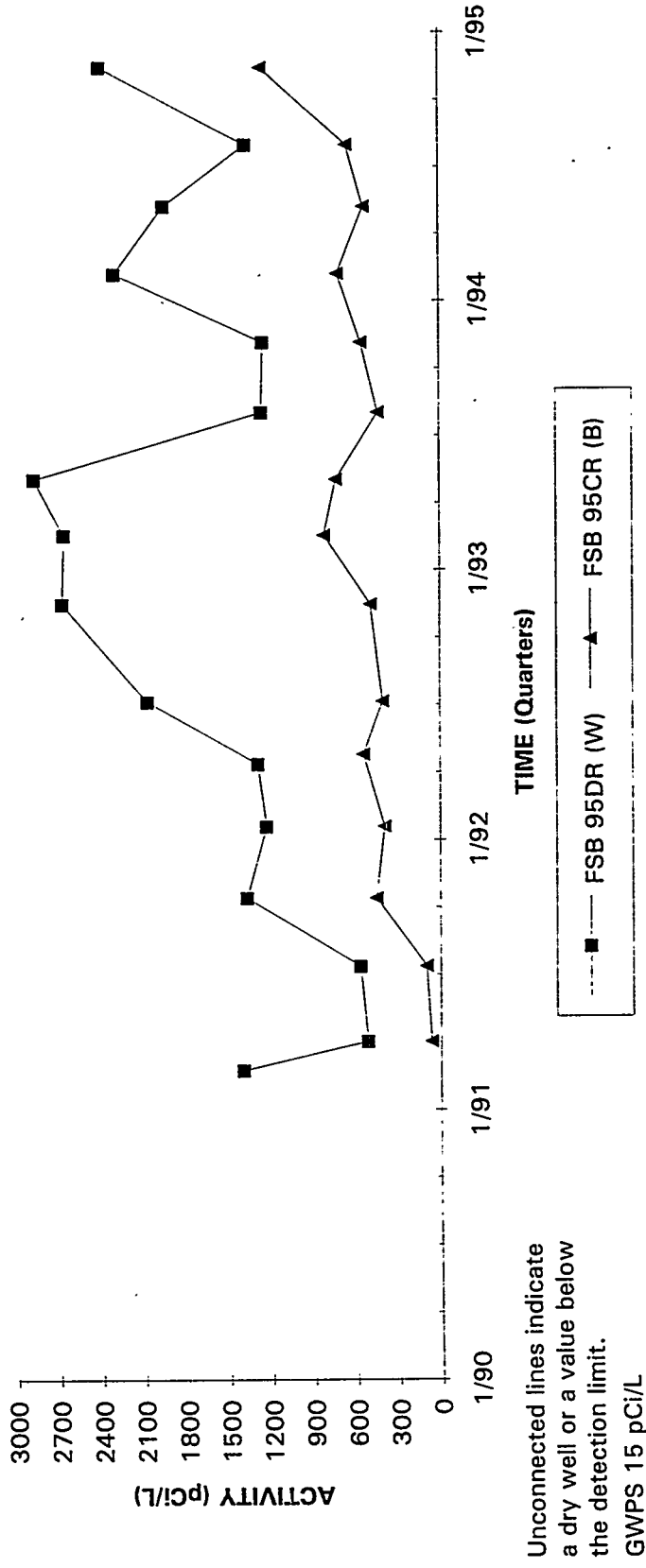


Gross Alpha Activities Well Cluster FSB 94



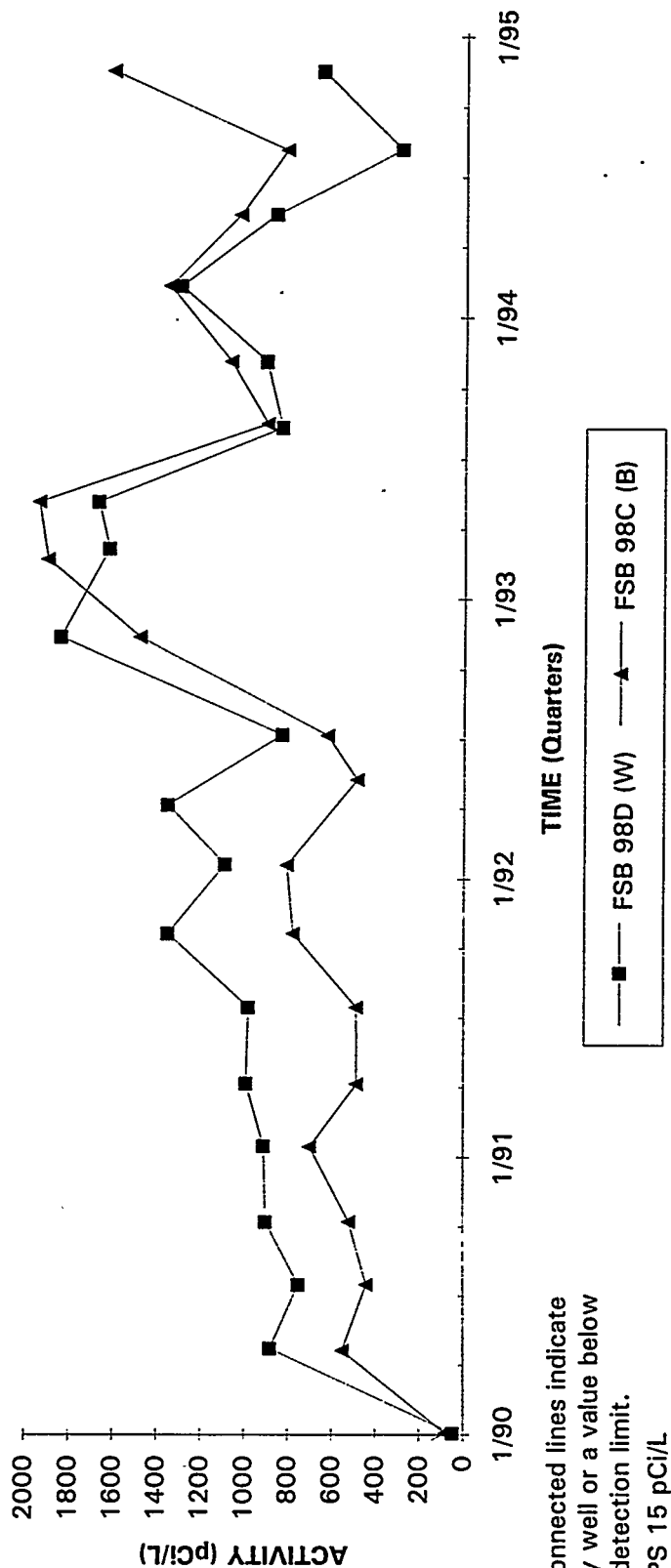
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 95



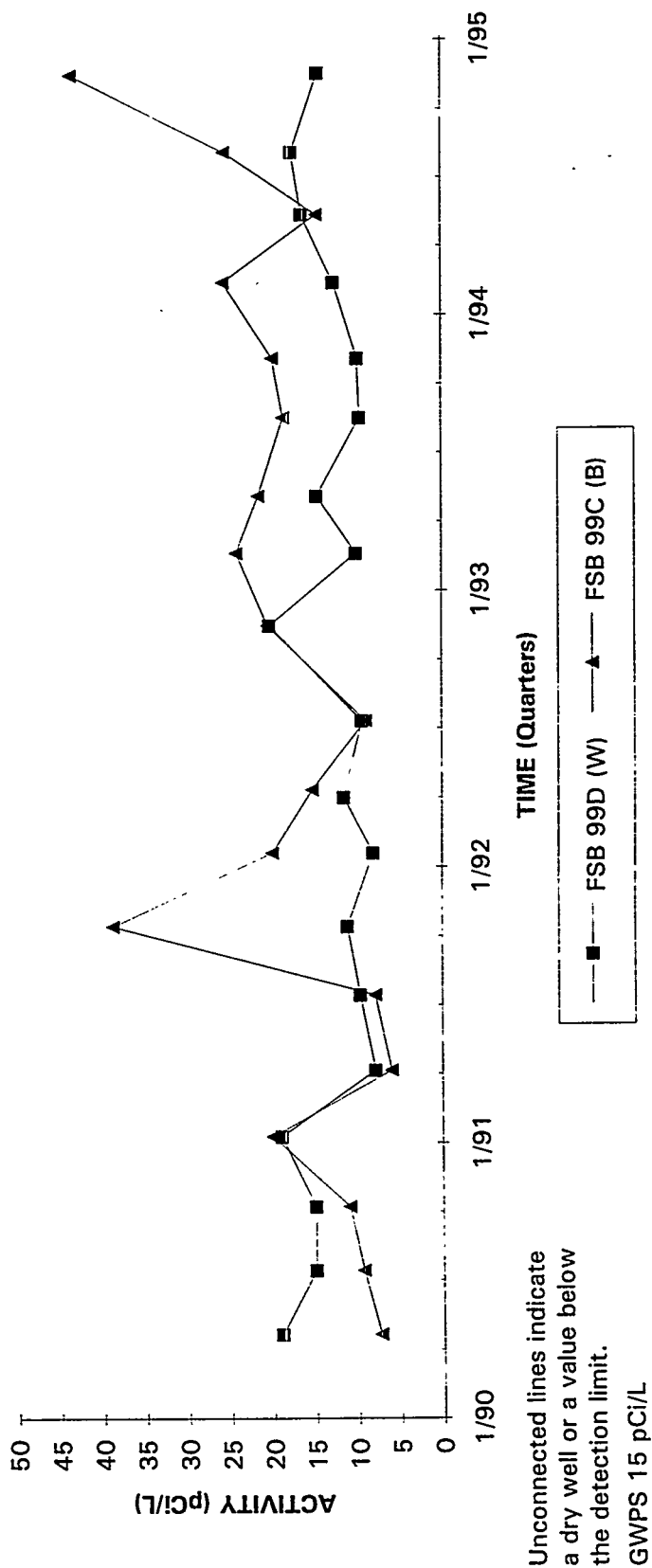
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 98



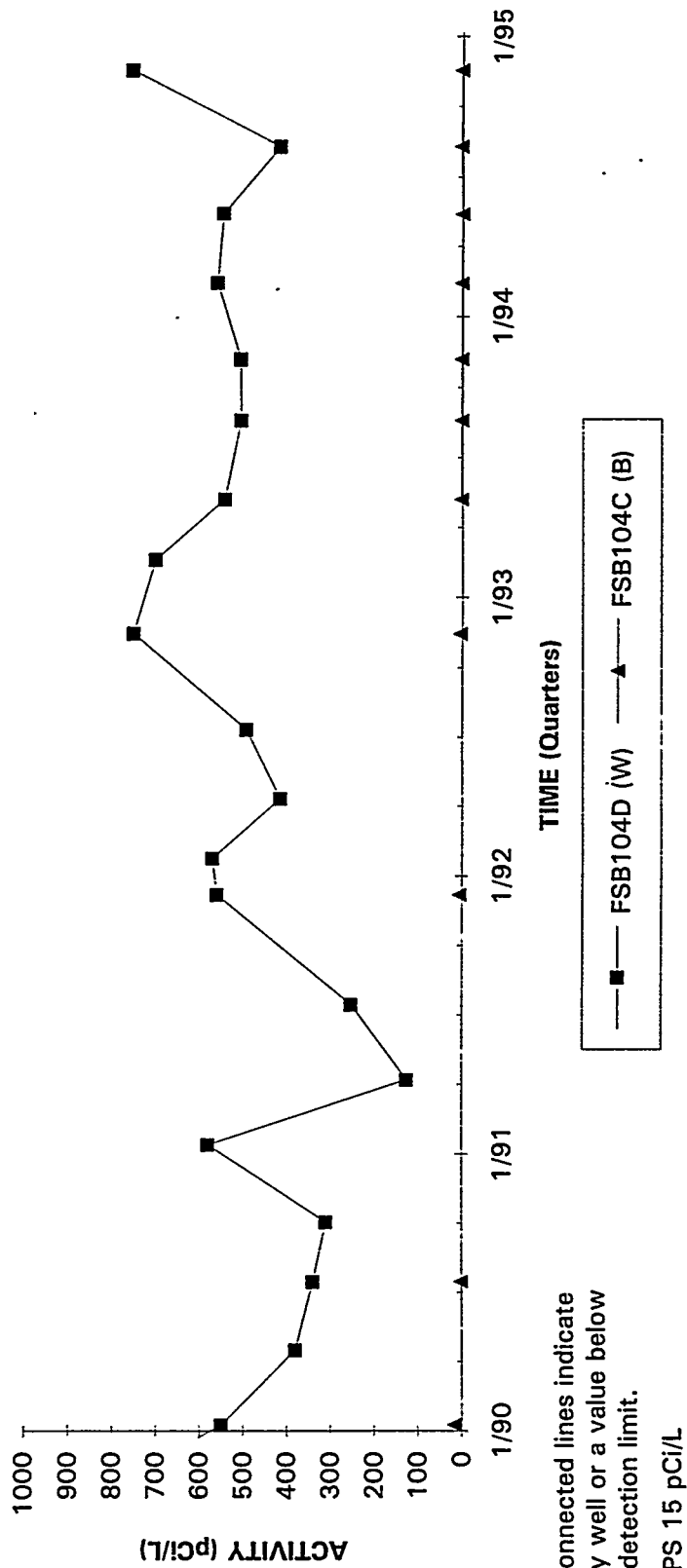
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 99



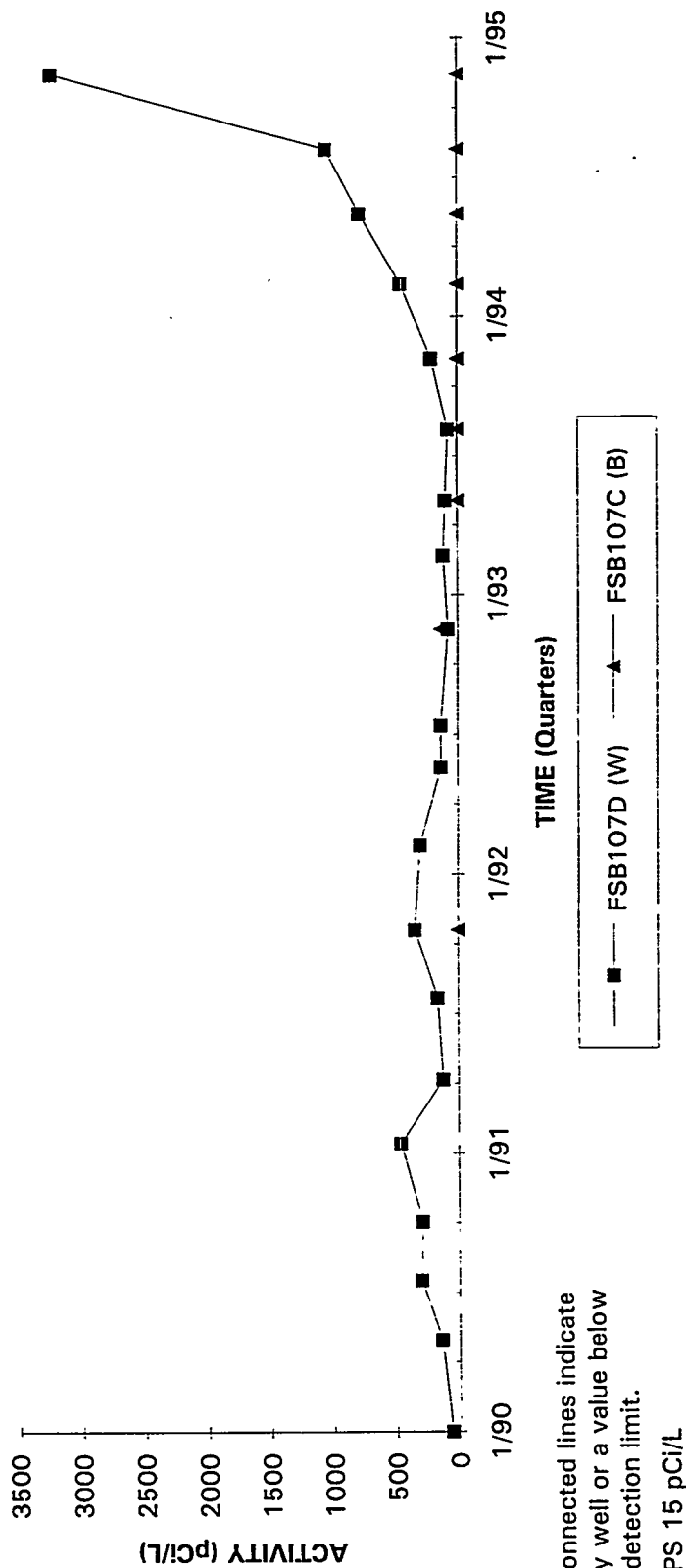
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB104



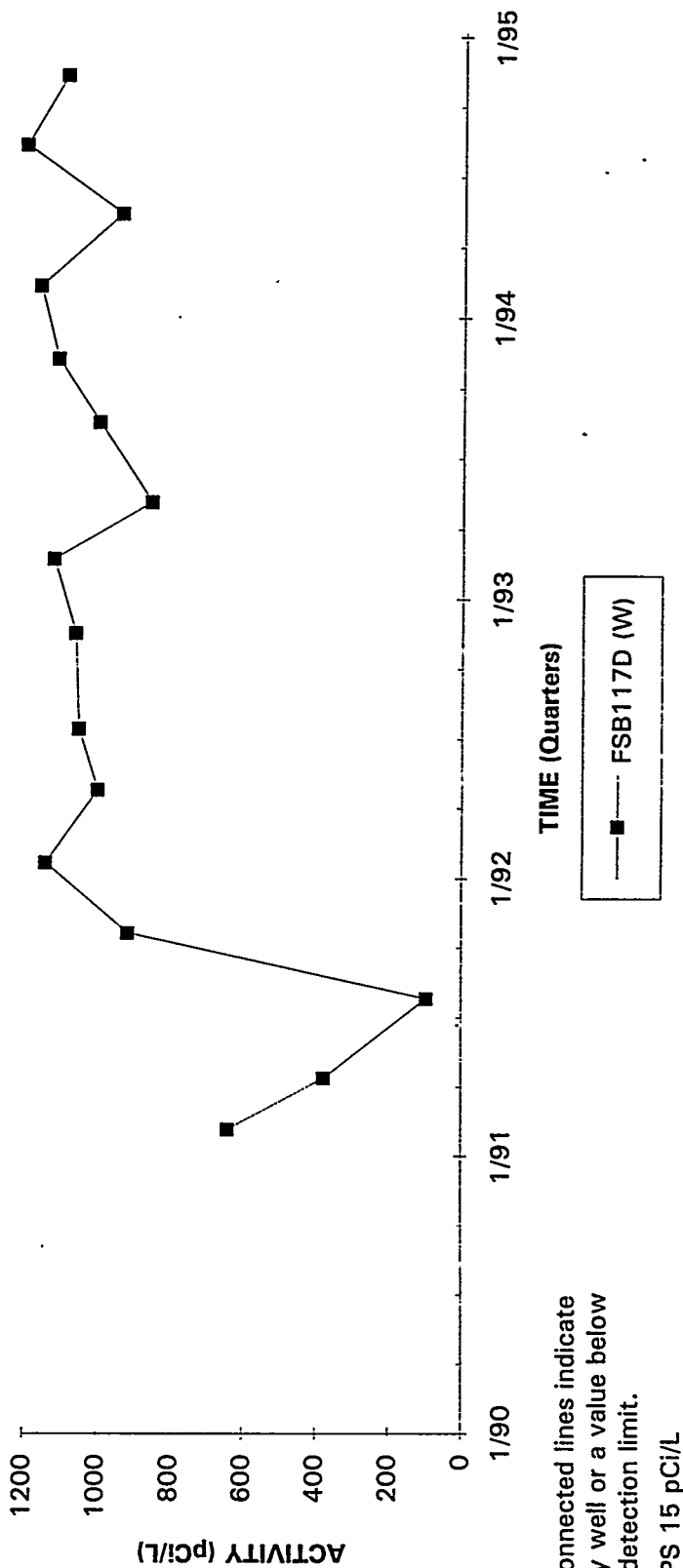
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Gross Alpha Activities Well Cluster FSB107



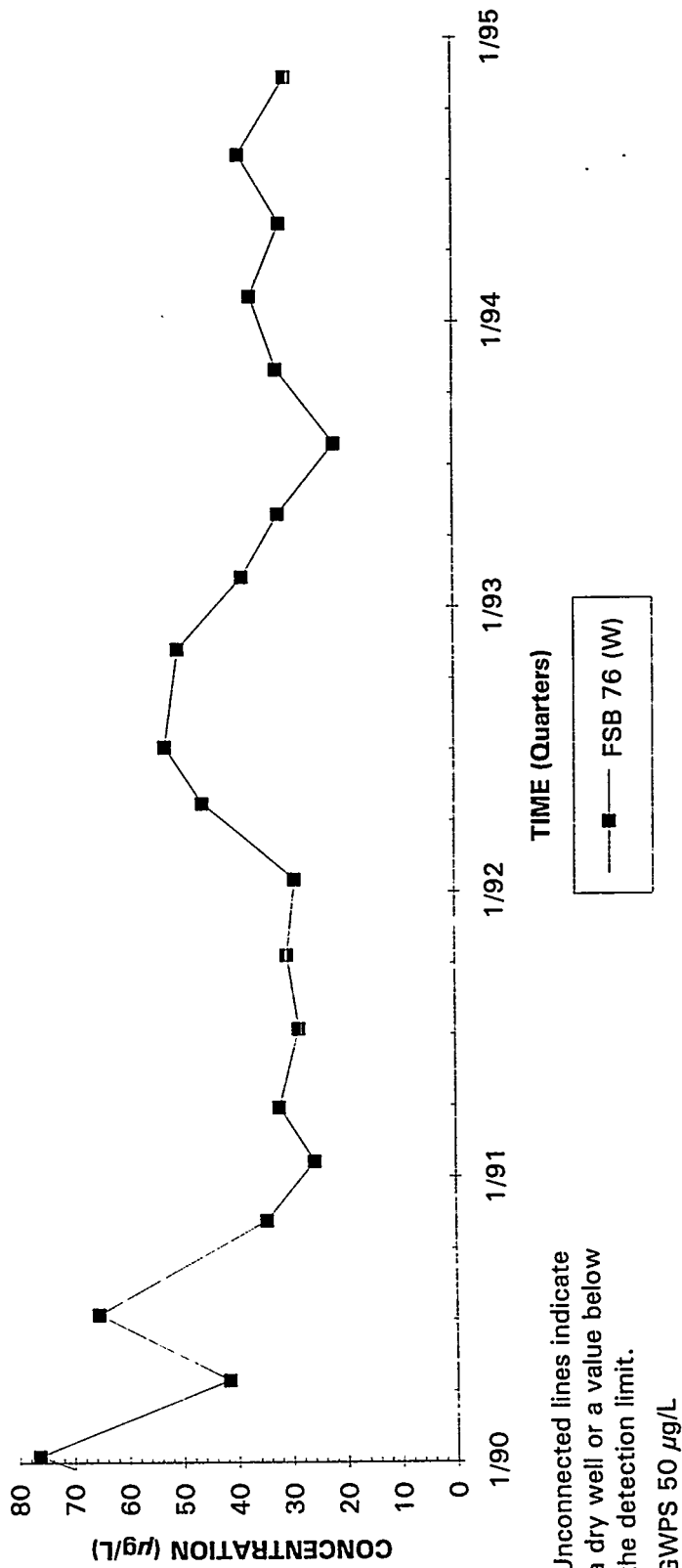
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well FSB117D



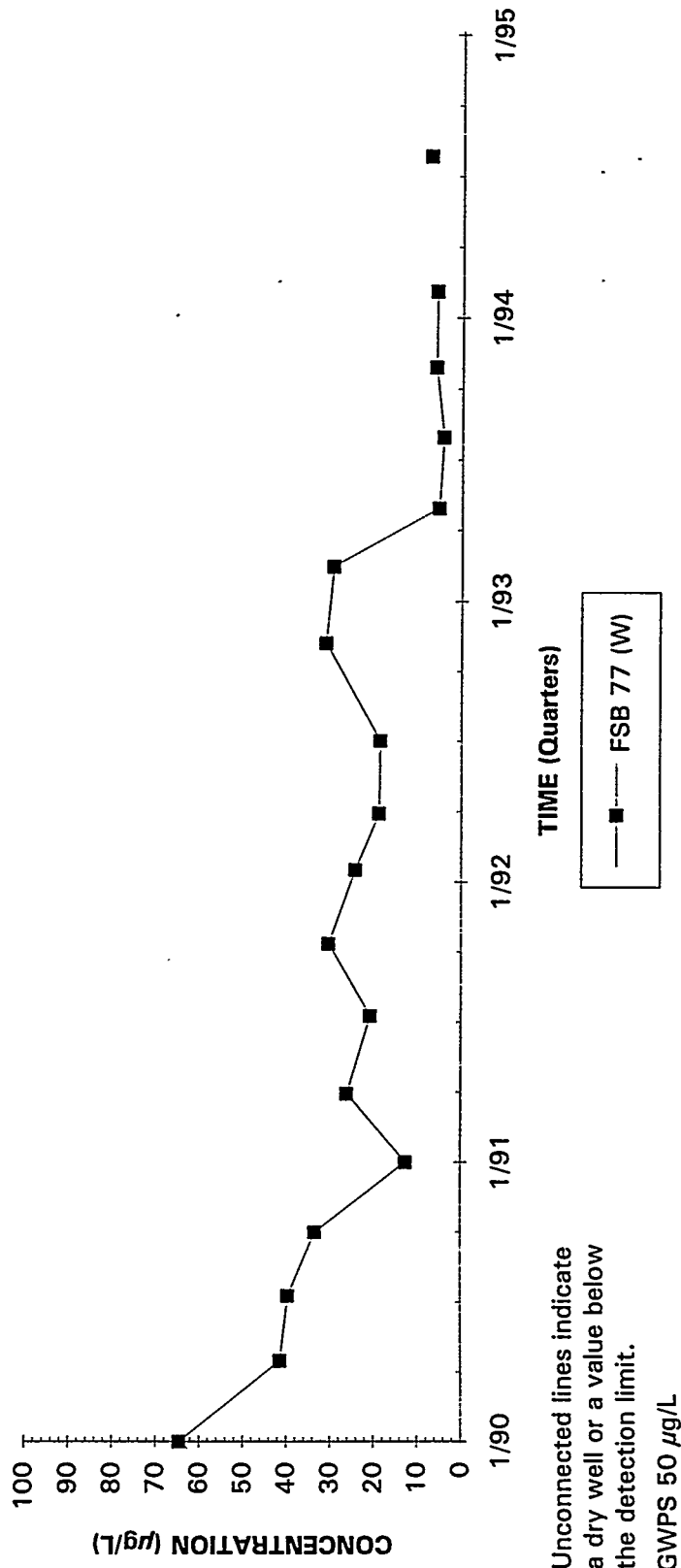
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB 76



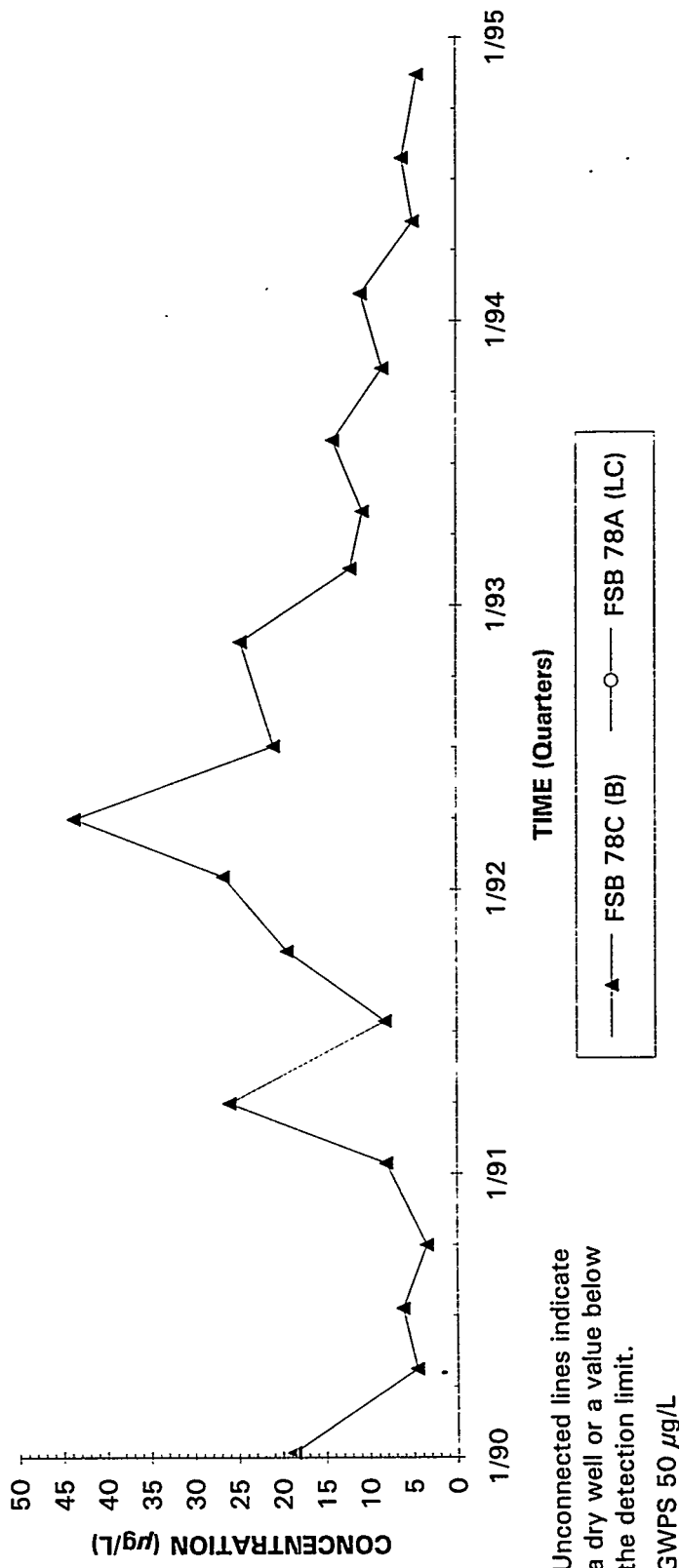
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB 77



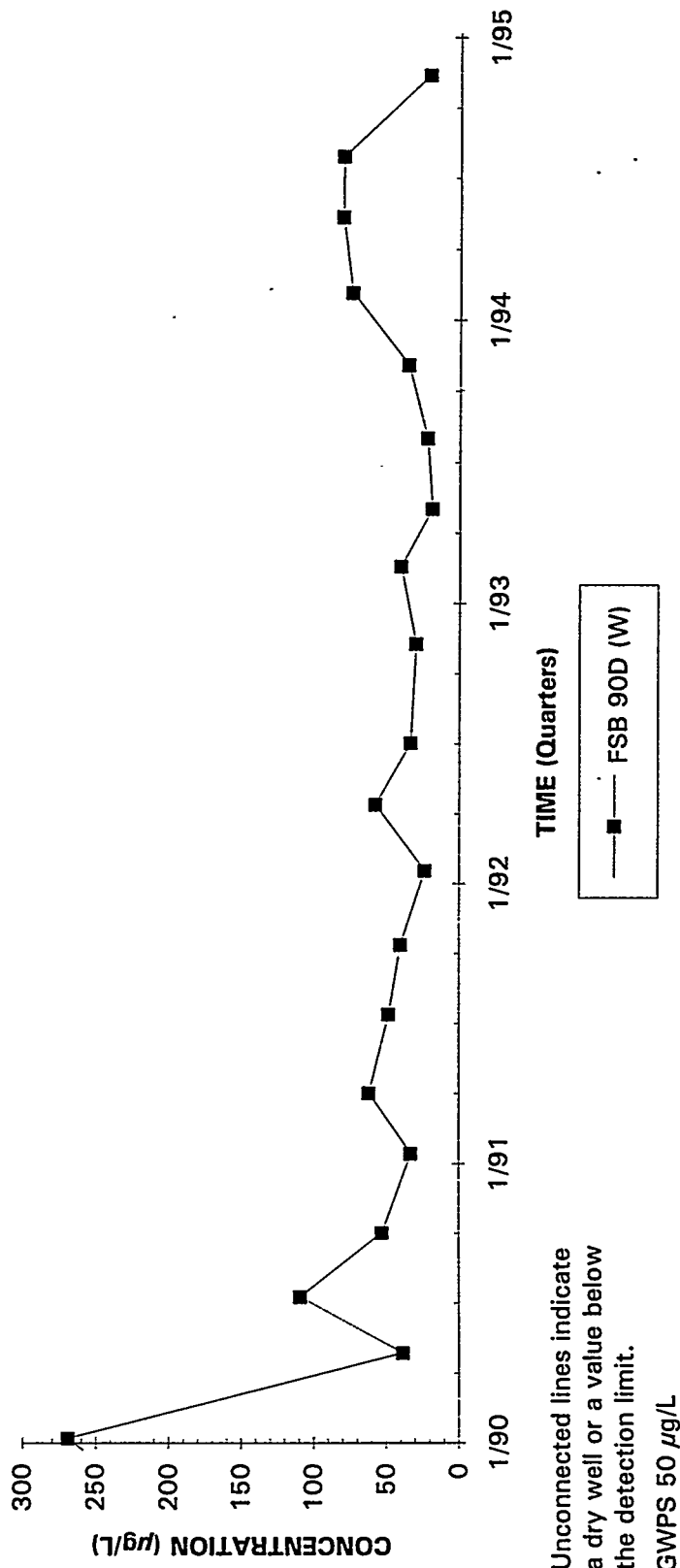
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well Cluster FSB 78



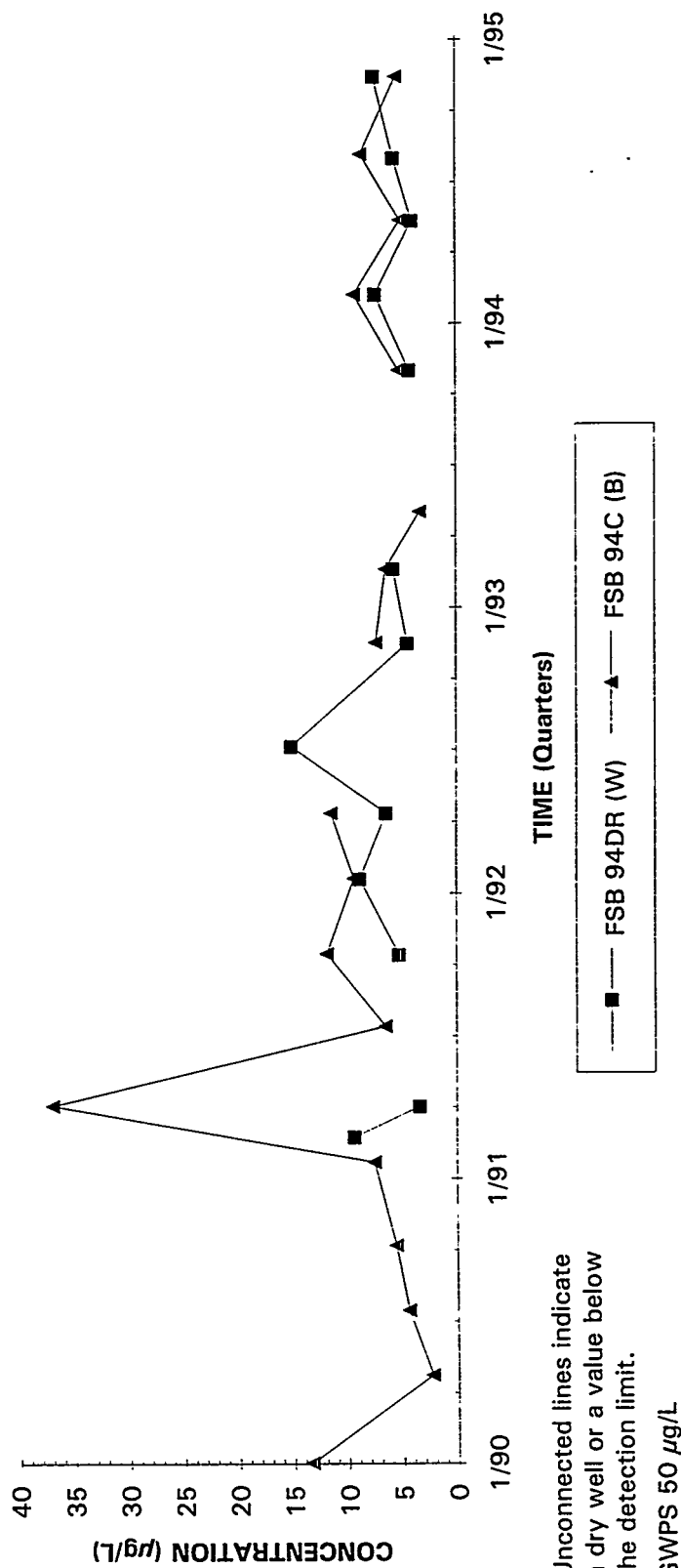
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB 90D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

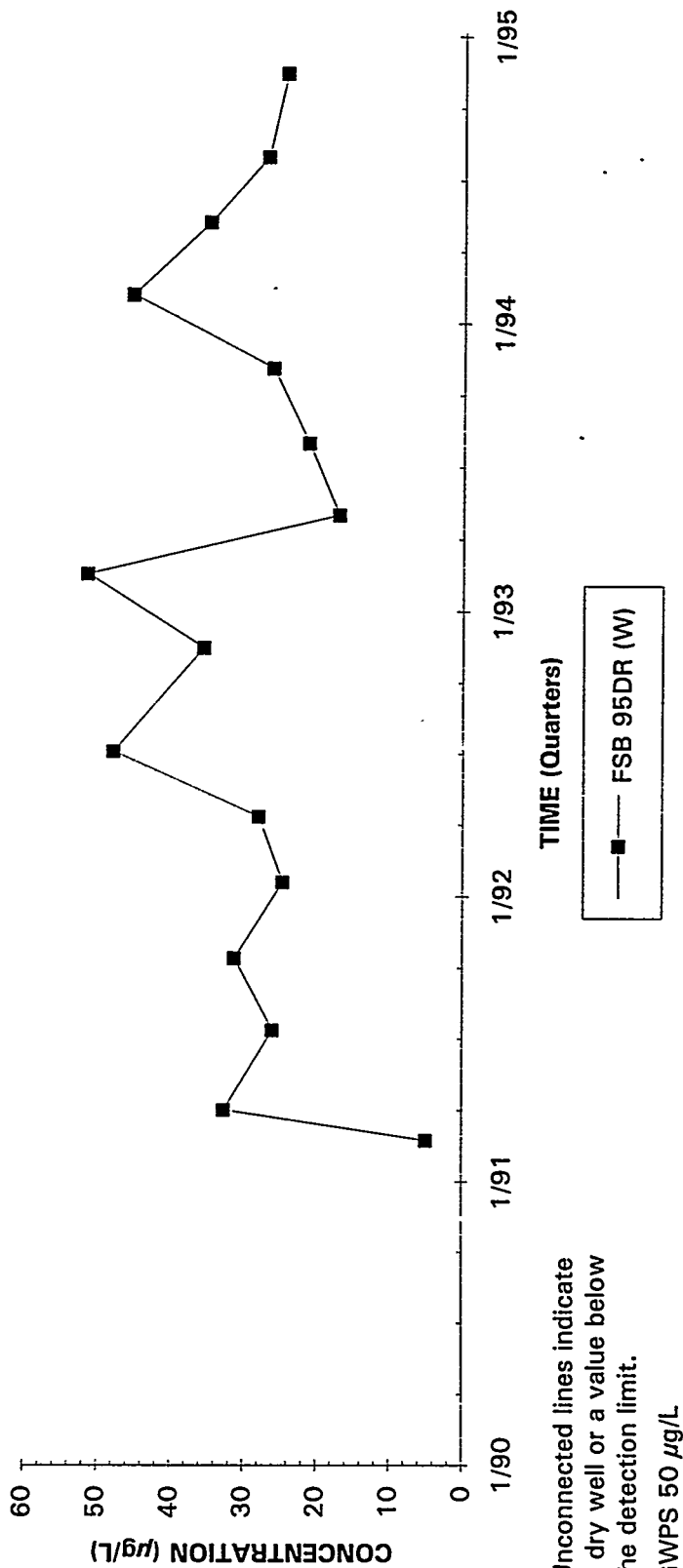
Lead Concentrations Well Cluster FSB 94



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

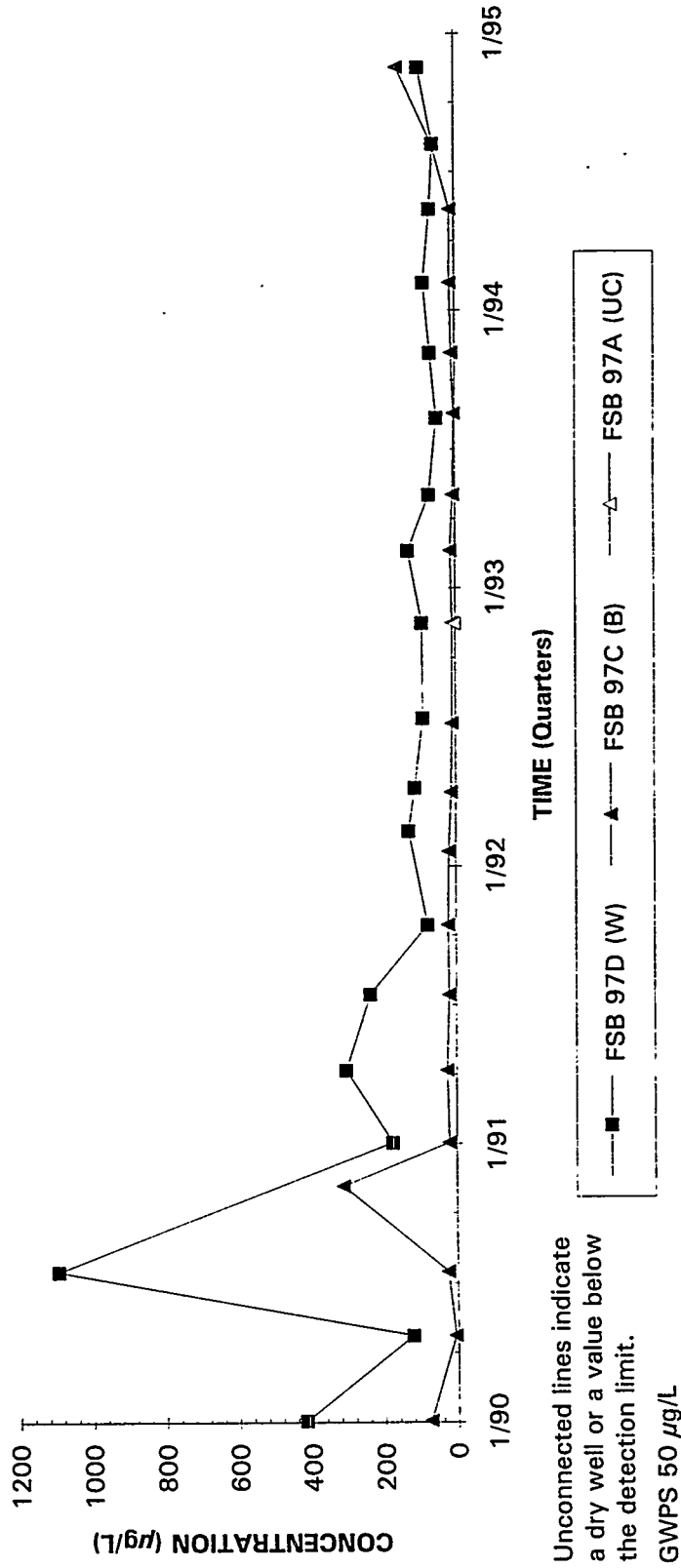
Third and Fourth Quarters 1994

Lead Concentrations Well FSB 95DR



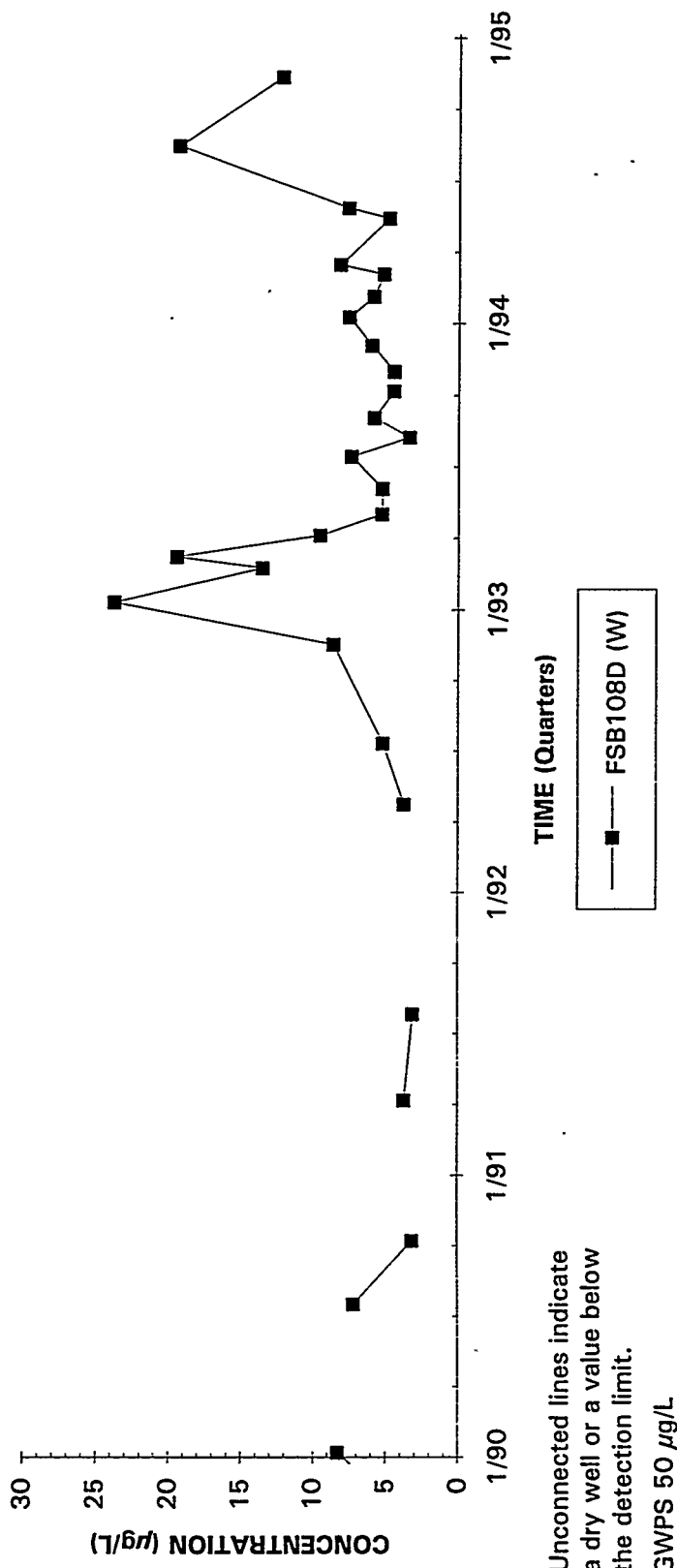
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Lead Concentrations Well Cluster FSB 97



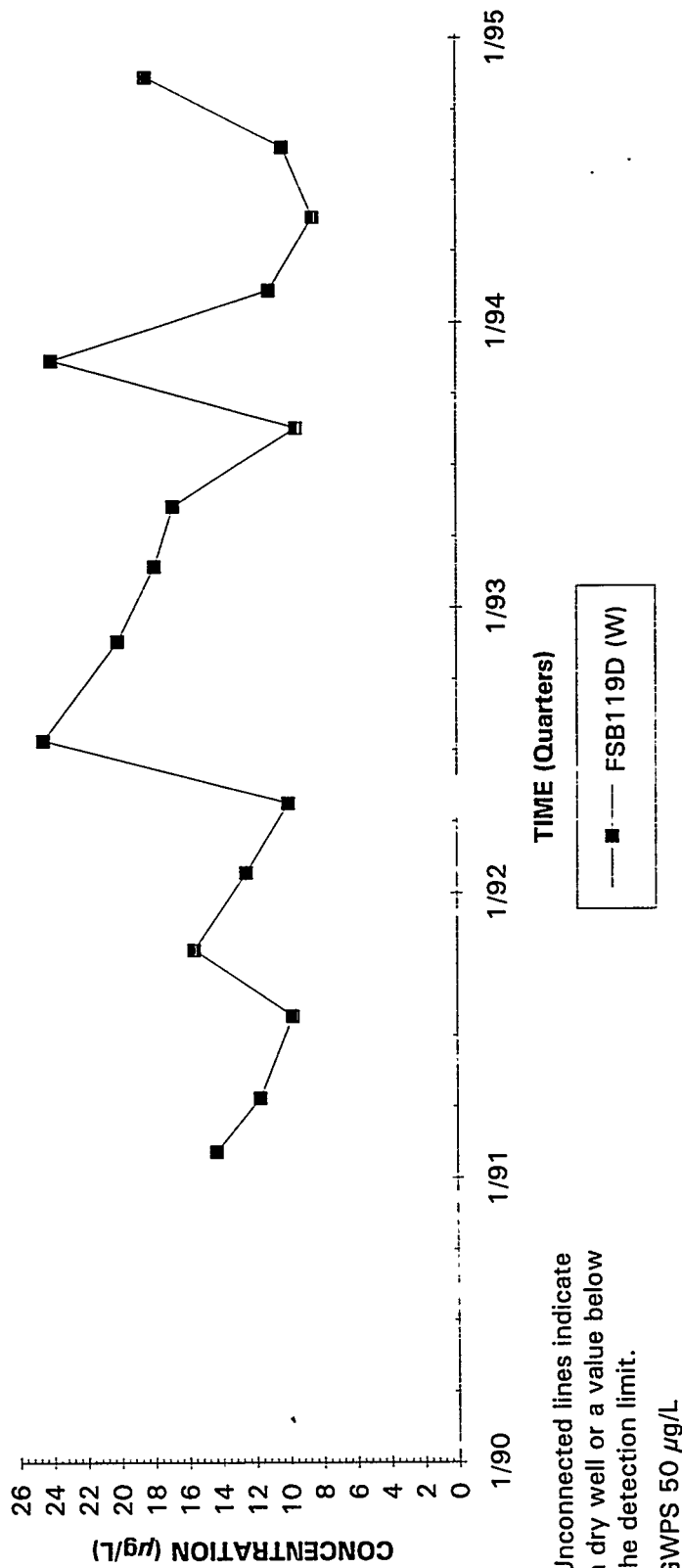
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB108D



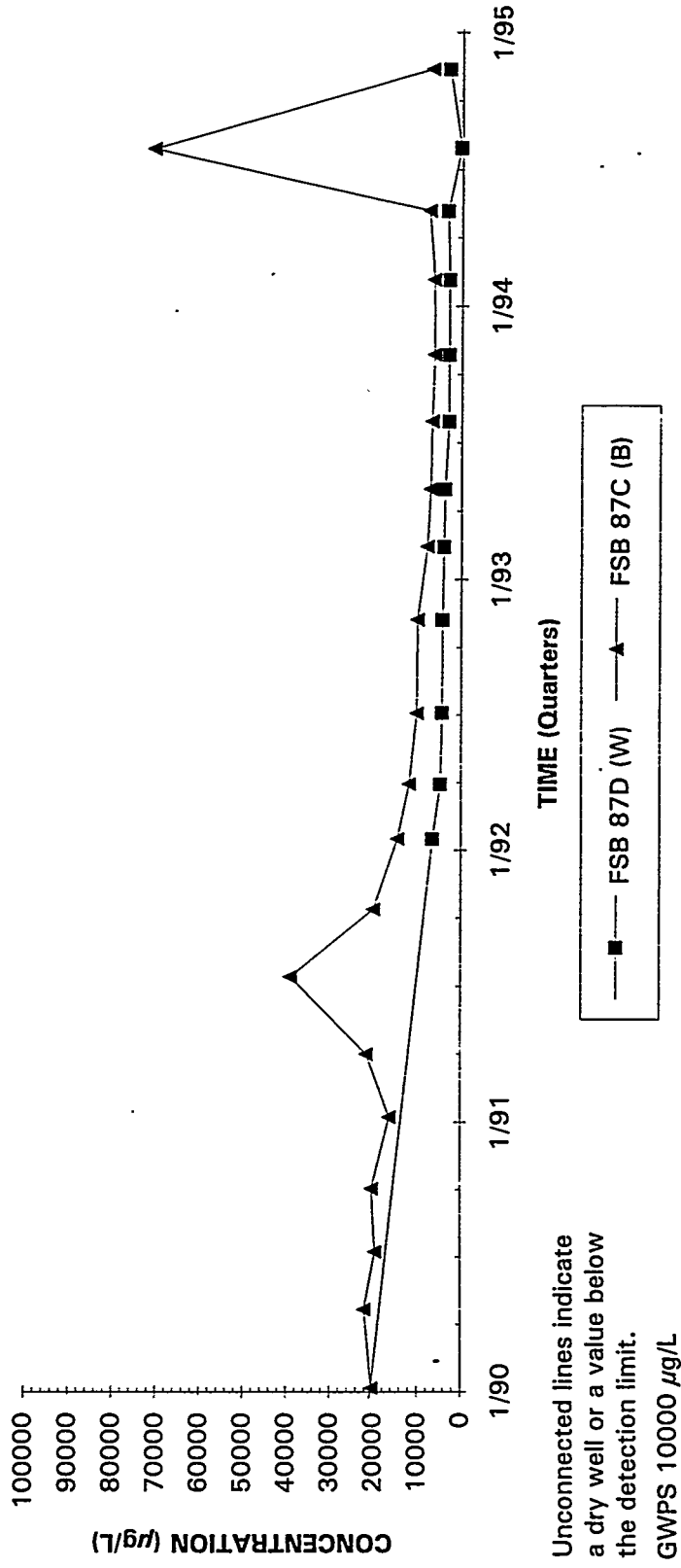
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB119D



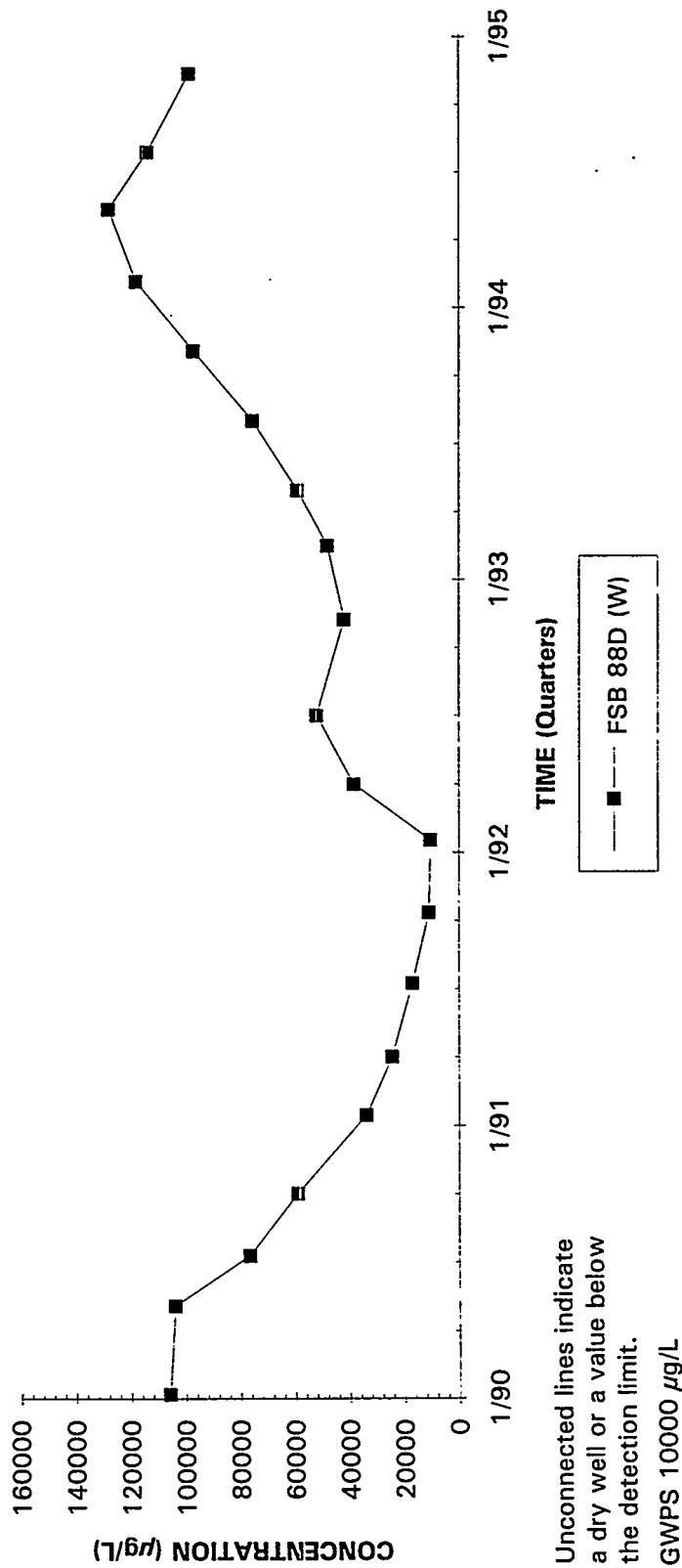
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster FSB 87



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well FSB 88D



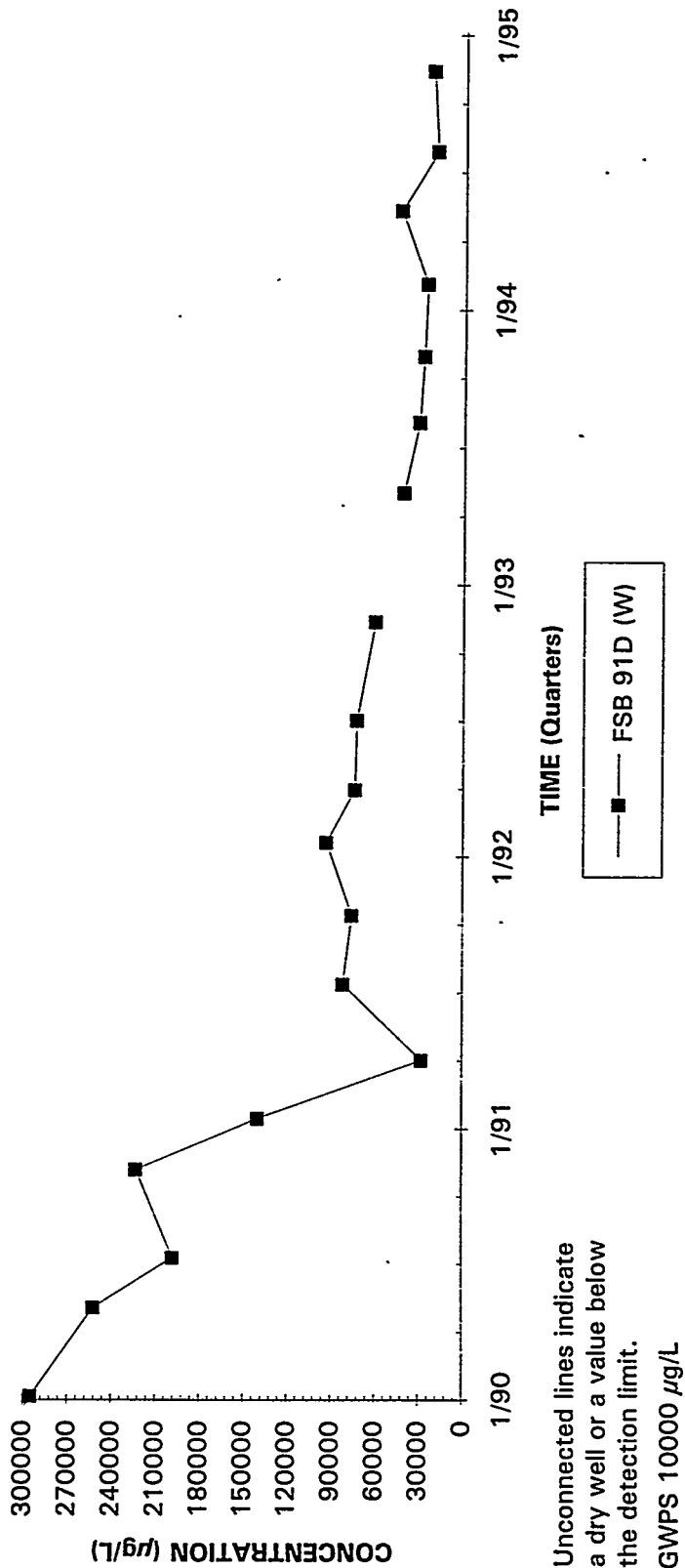
Unconnected lines indicate
a dry well or a value below
the detection limit.

GWPS 10000 µg/L

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

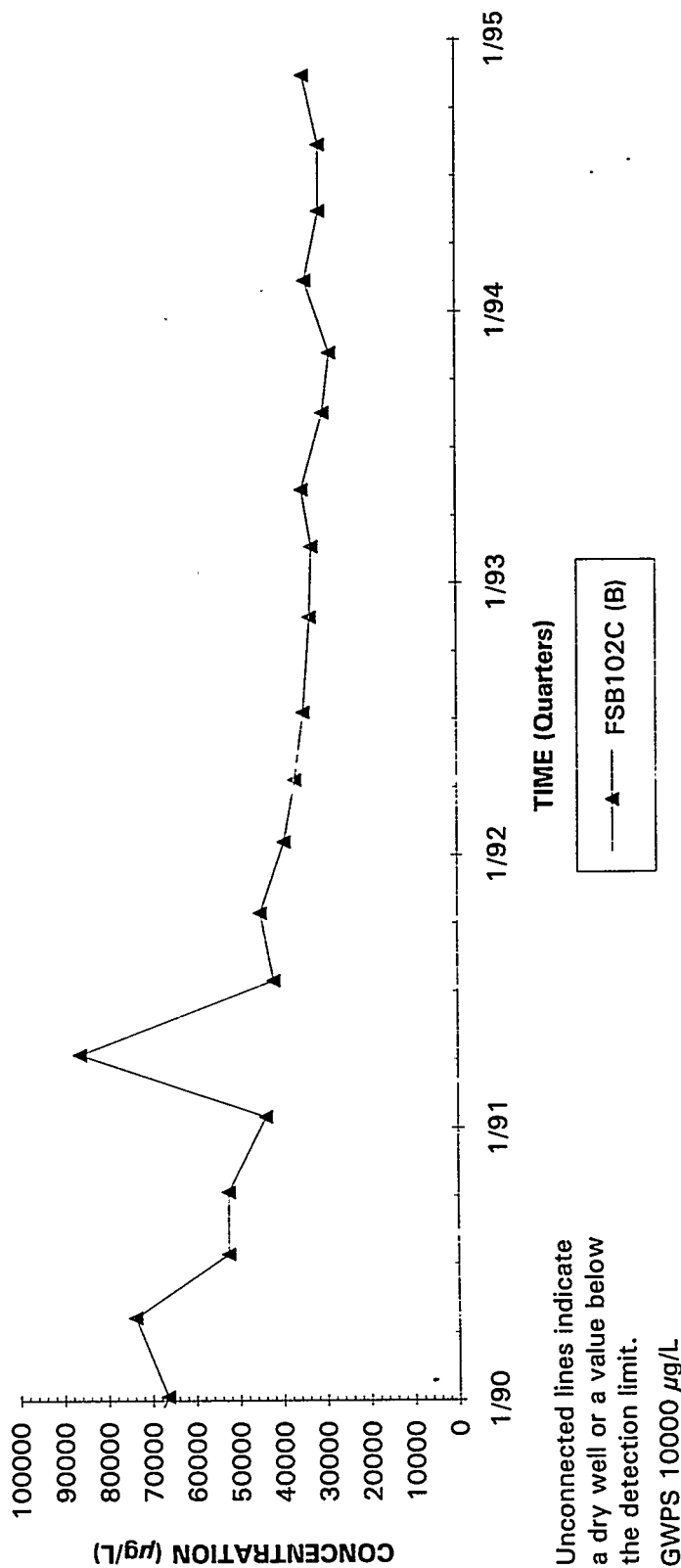
Third and Fourth Qua' ~ 1994

Nitrate Concentrations Well FSB 91D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

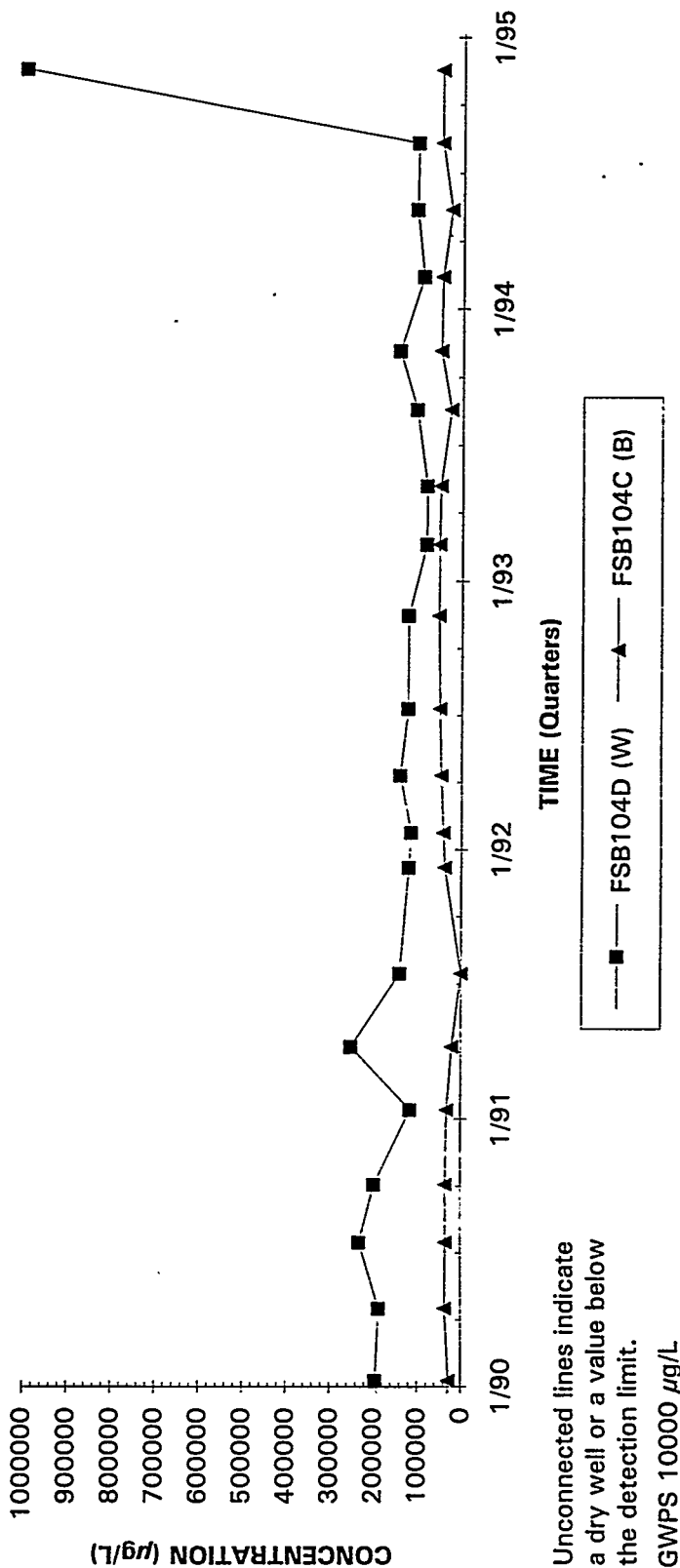
Nitrate Concentrations Well FSB102C



Unconnected lines indicate a dry well or a value below the detection limit.

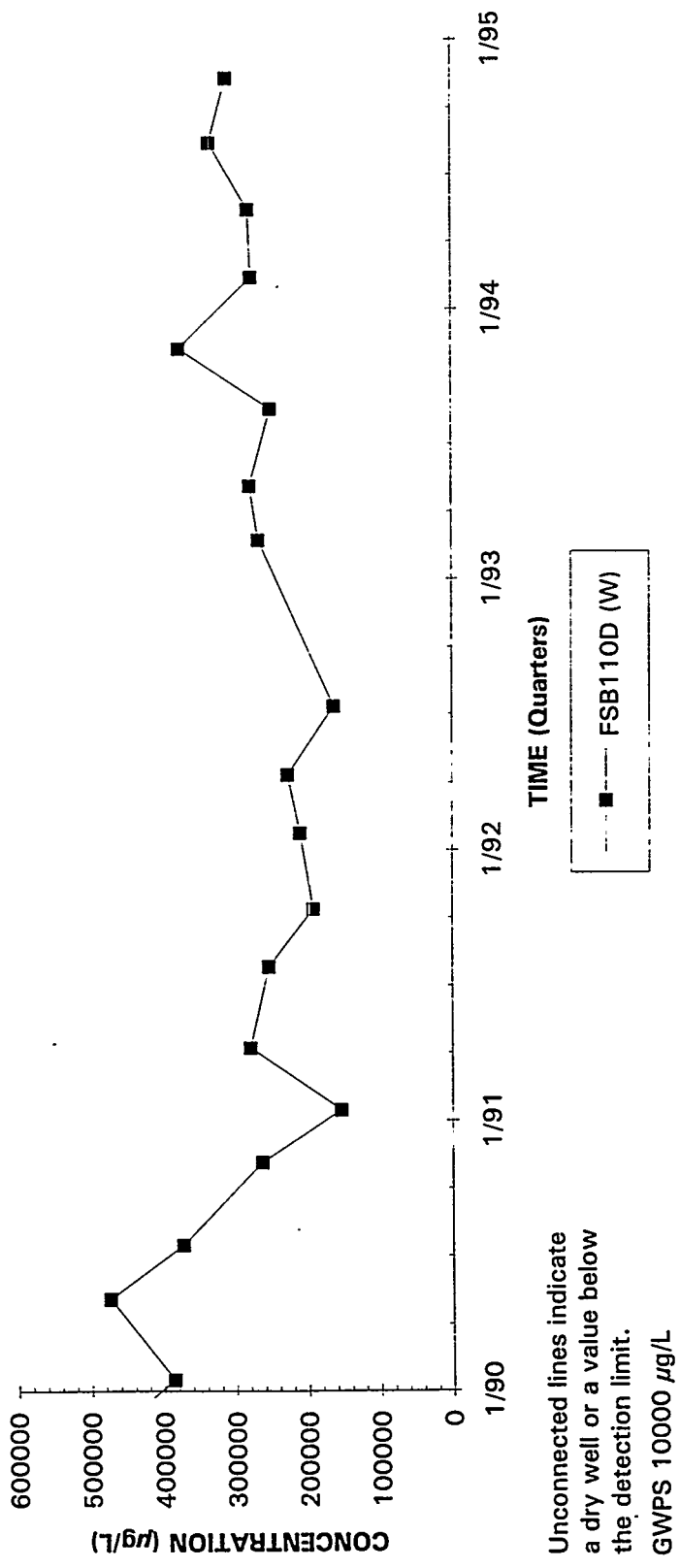
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Nitrate Concentrations Well Cluster FSB104



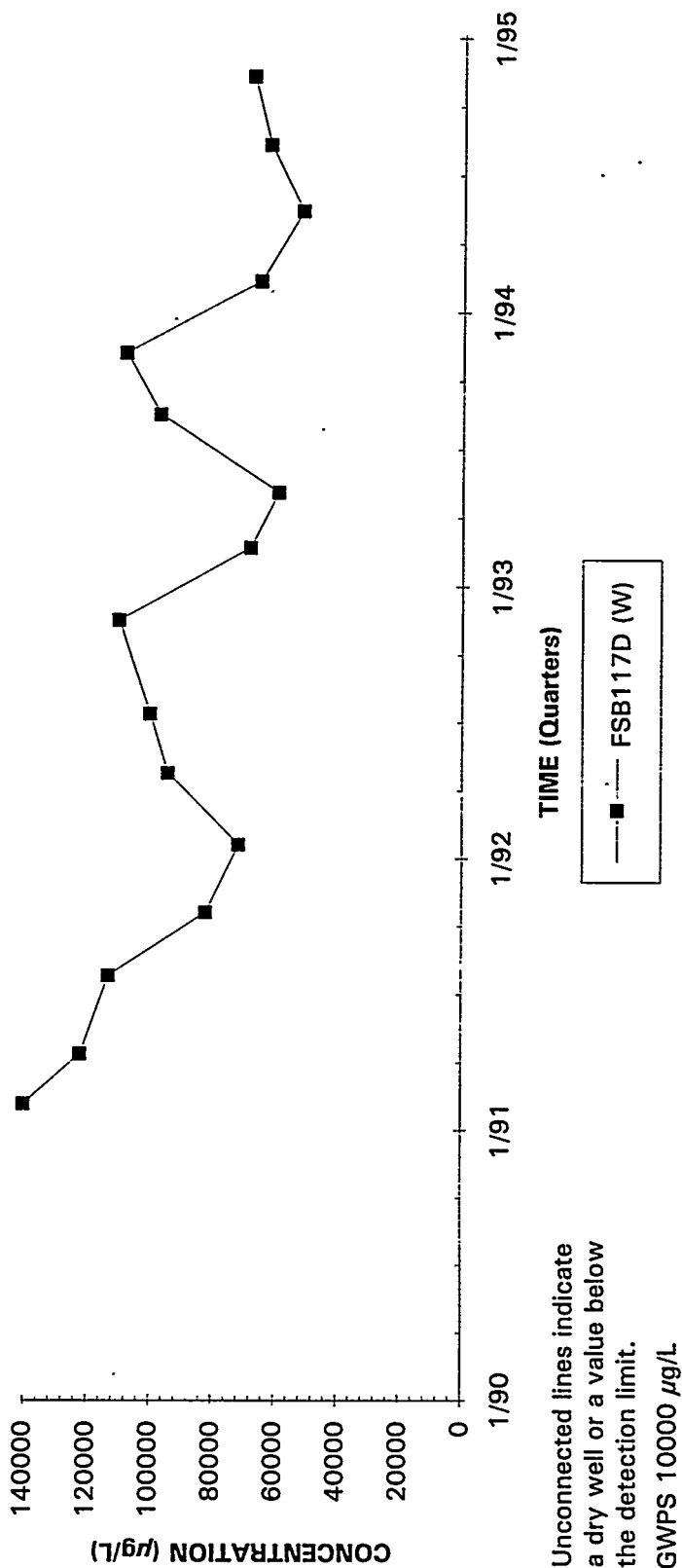
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Nitrate Concentrations Well FSB110D



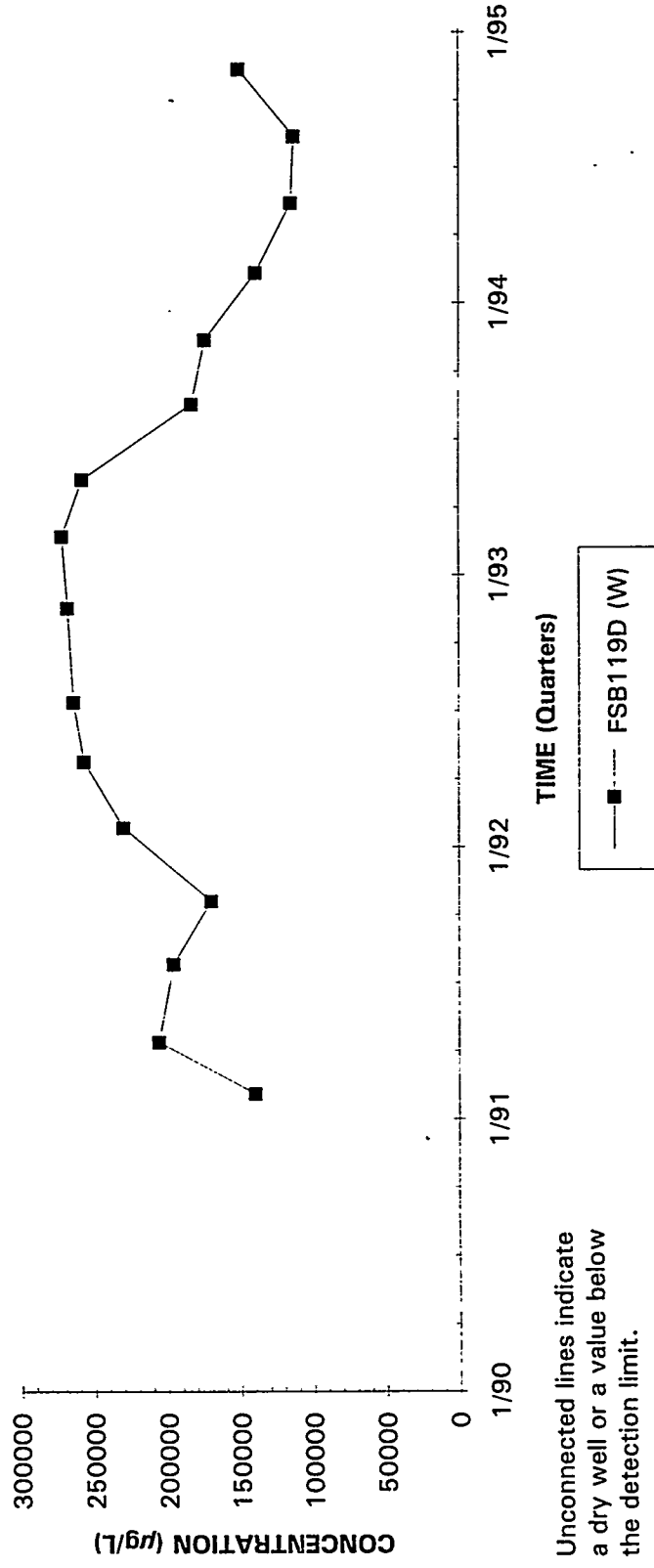
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well FSB117D



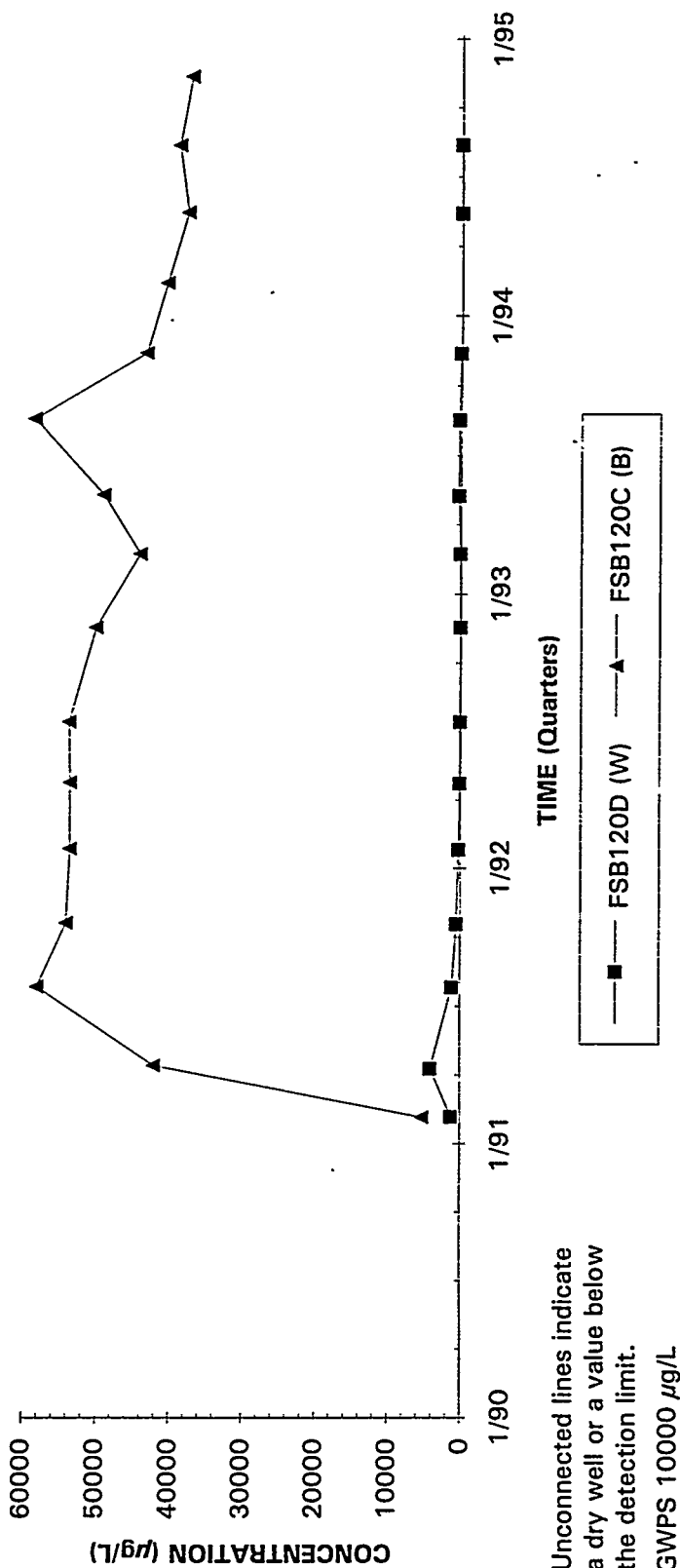
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well FSB119D



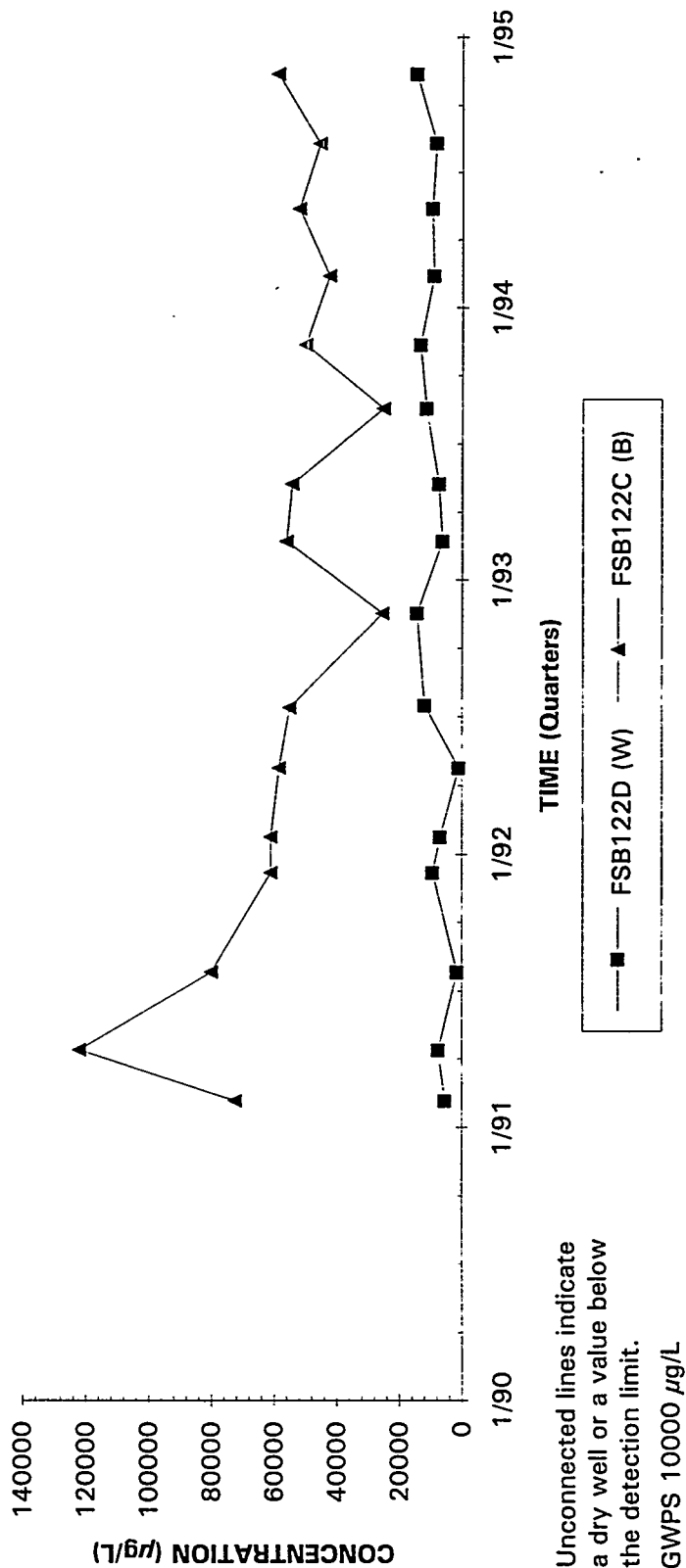
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster FSB120



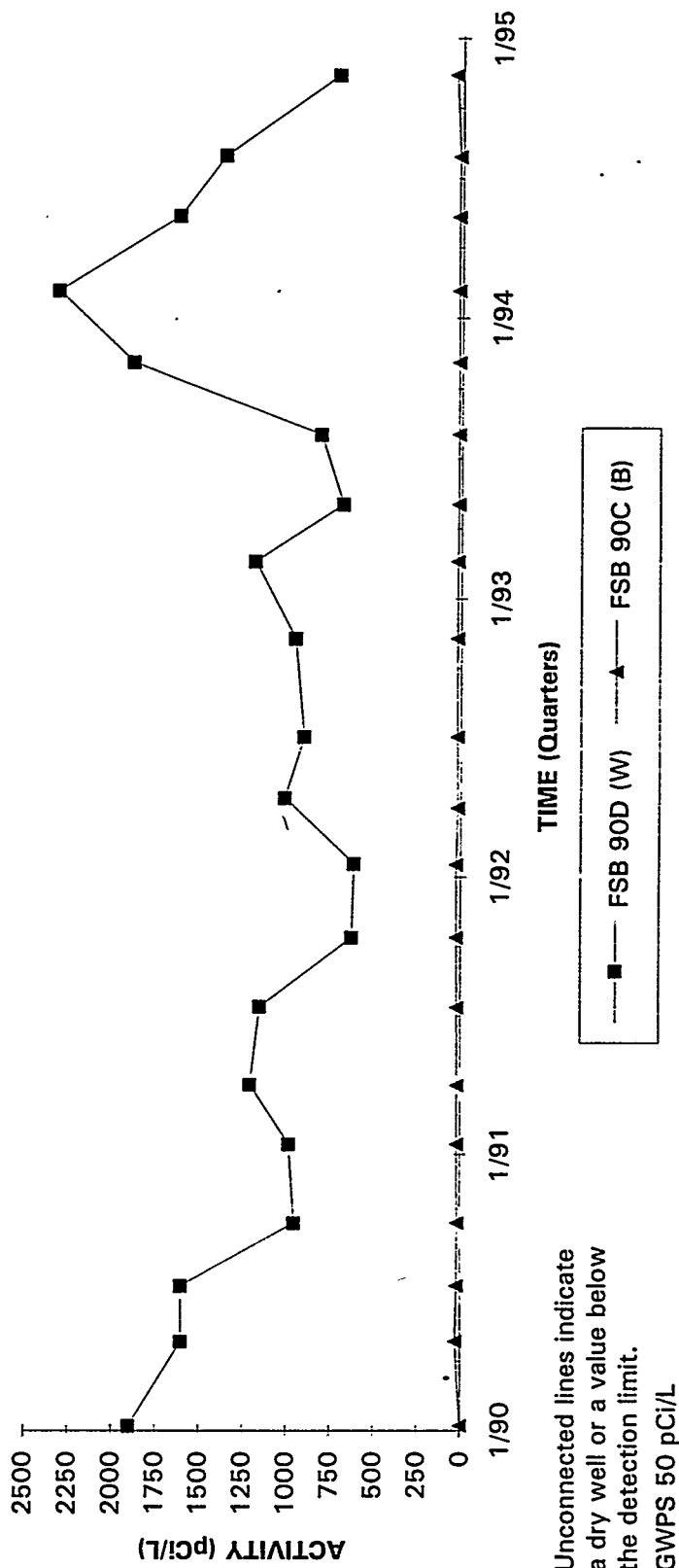
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well Cluster FSB122



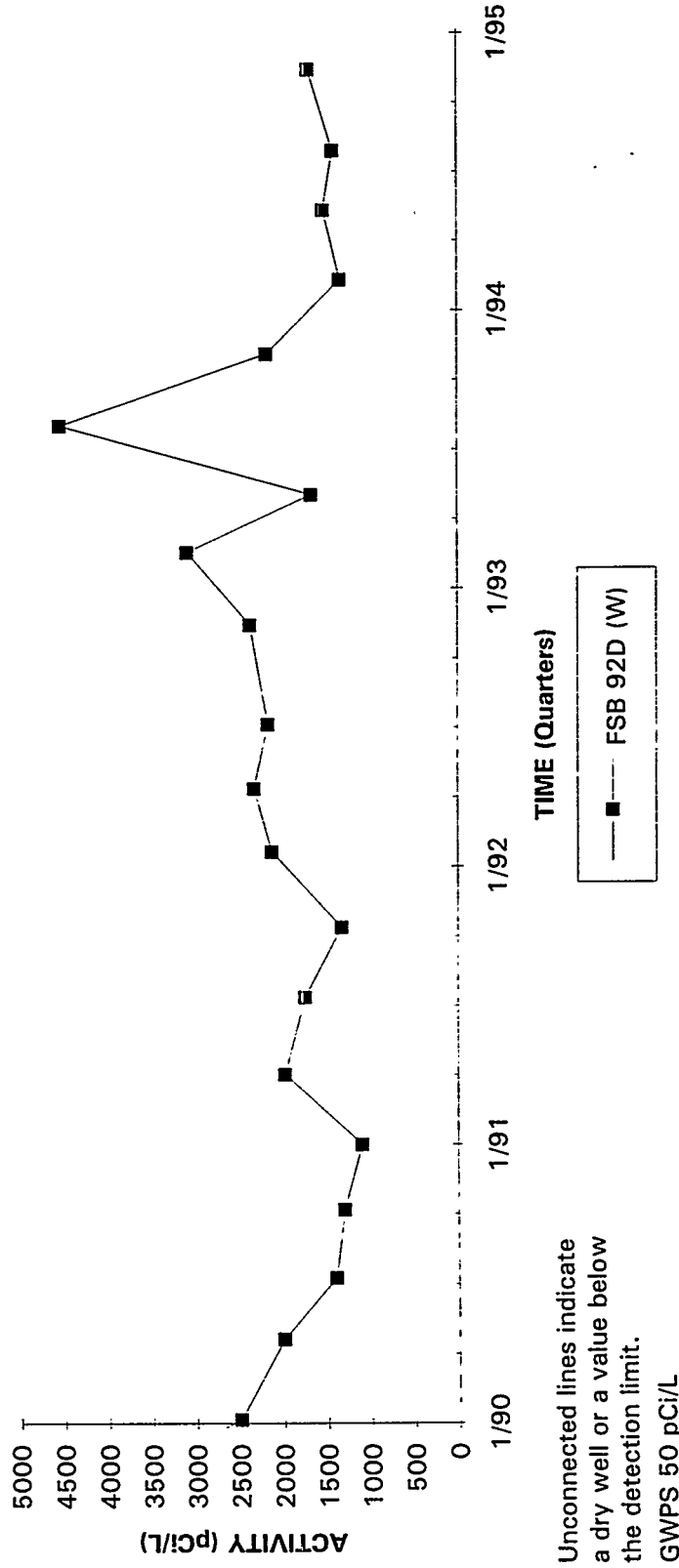
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 90



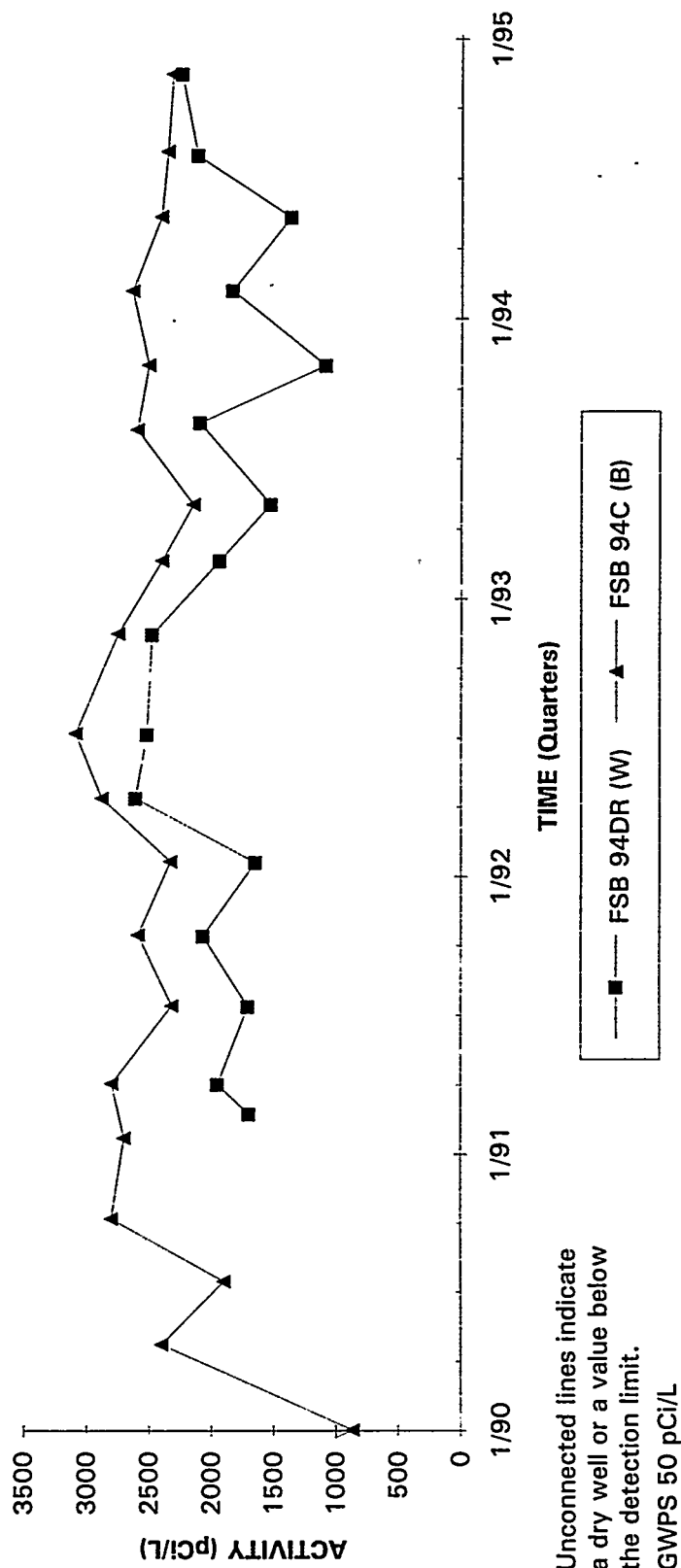
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well FSB 92D



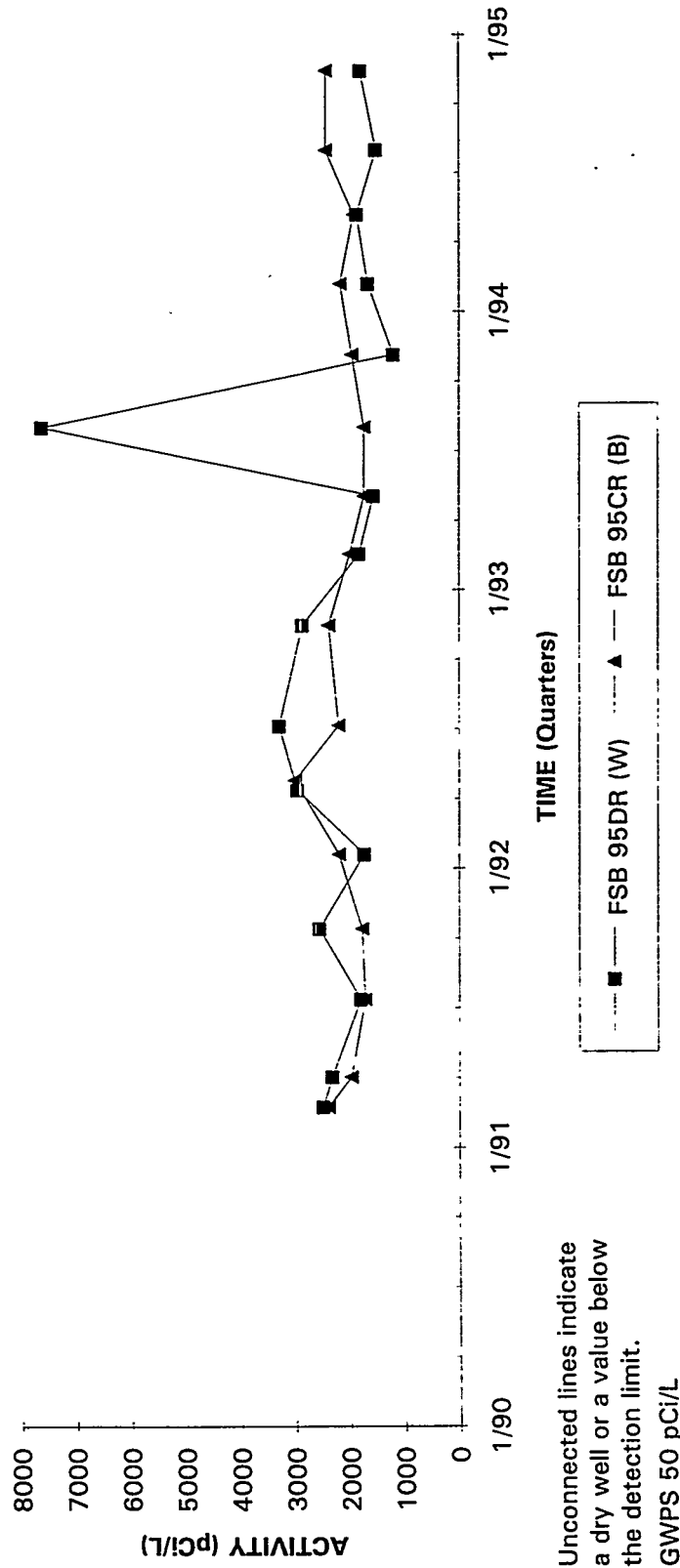
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 94



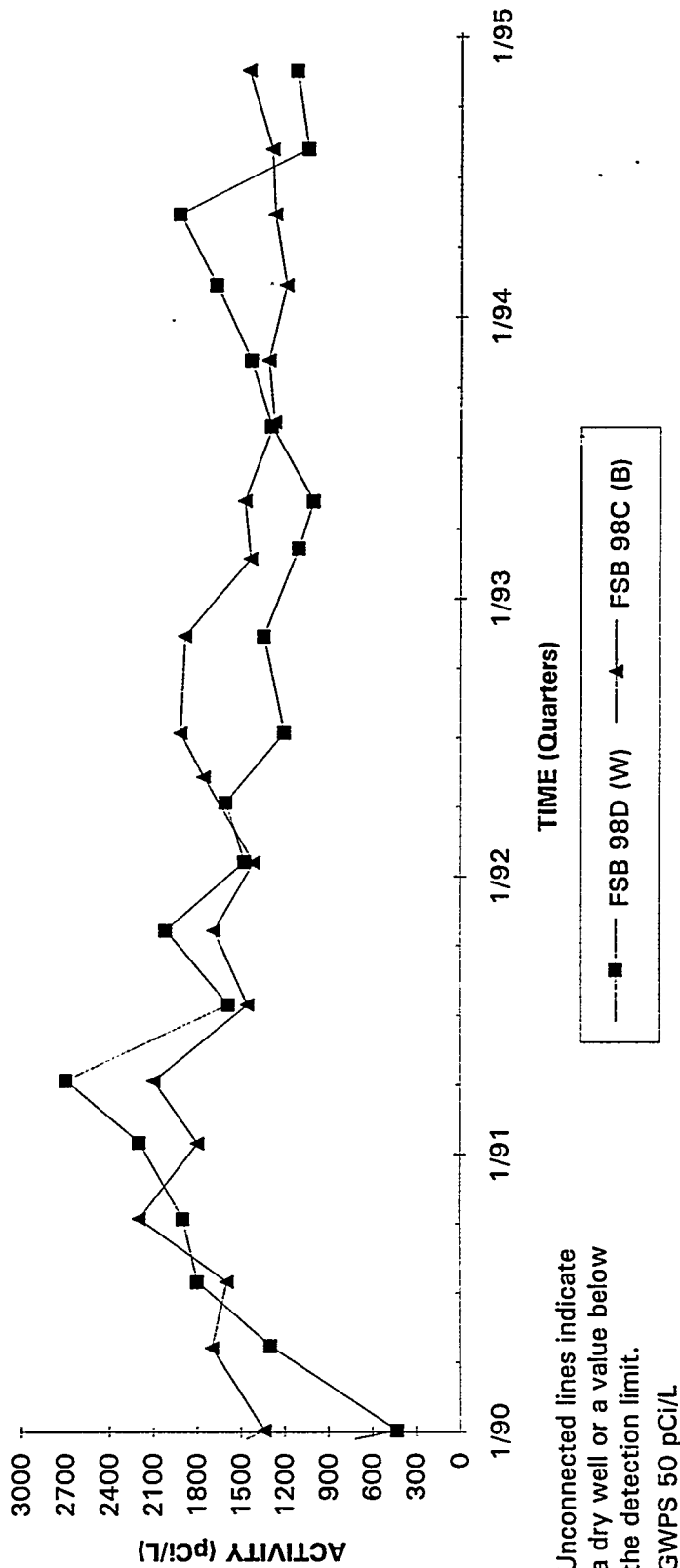
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 95



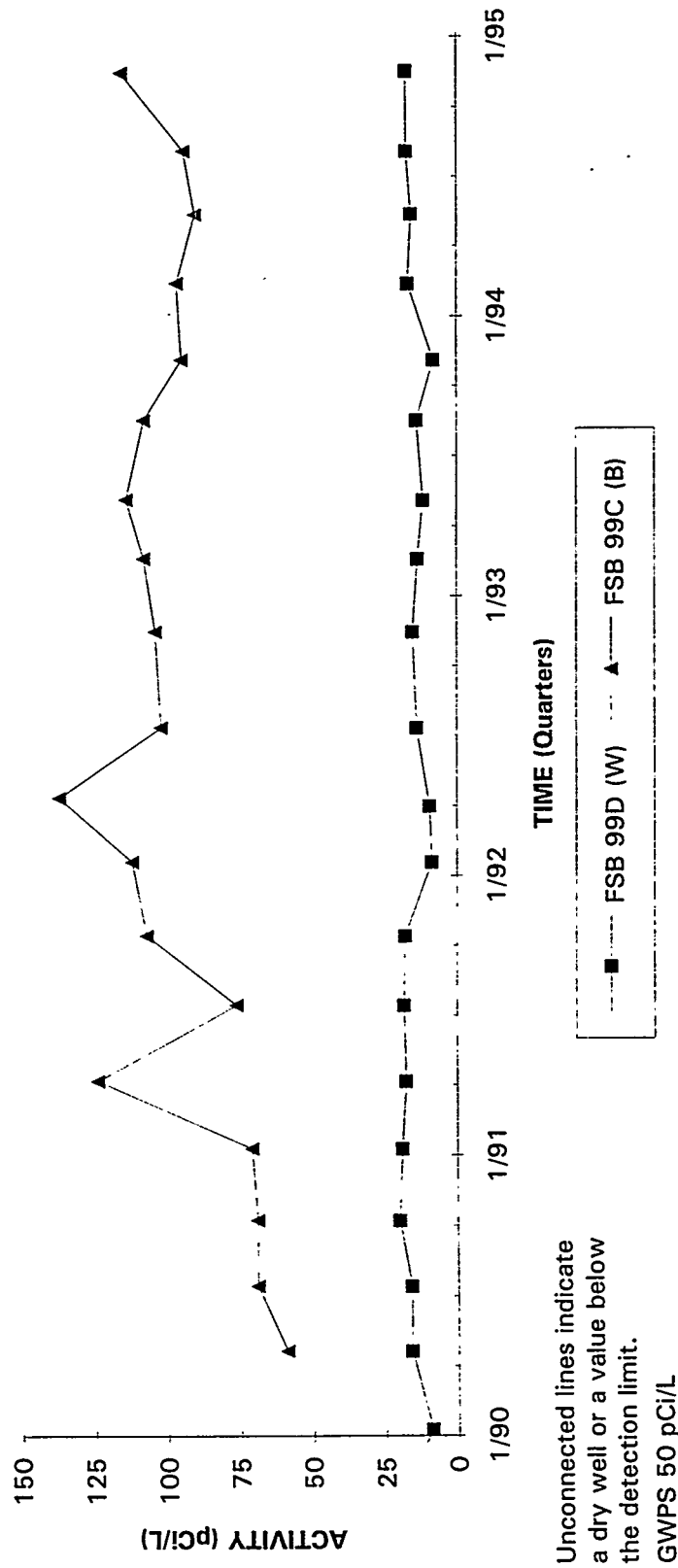
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 98



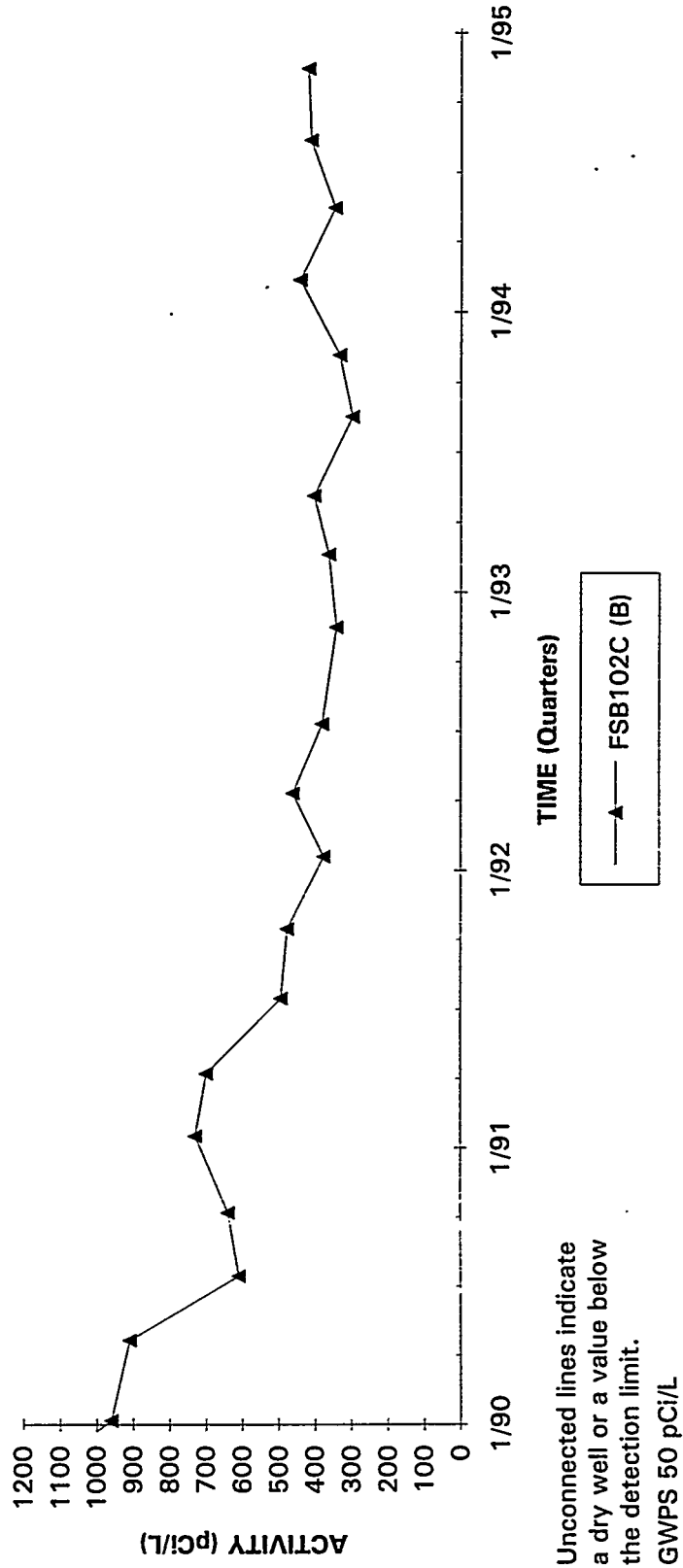
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 99



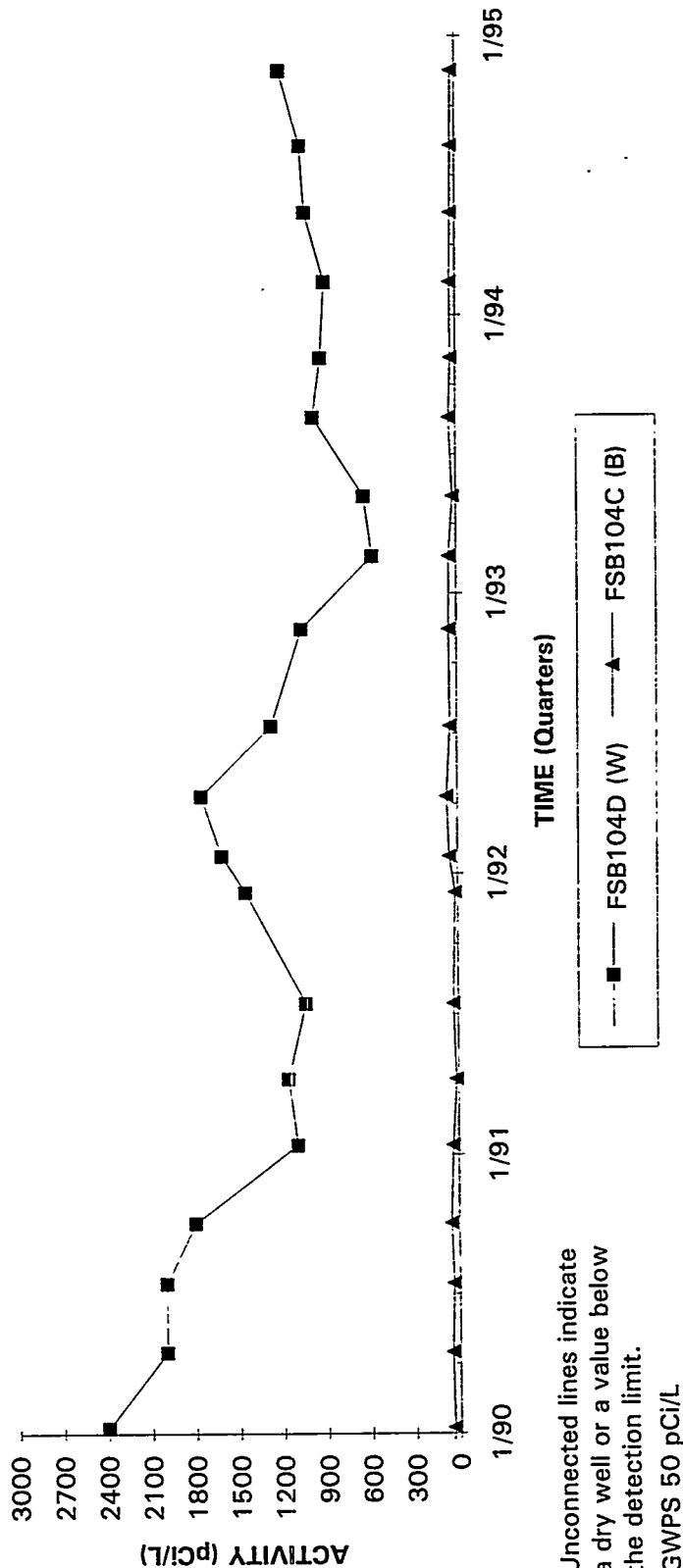
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well FSB102C



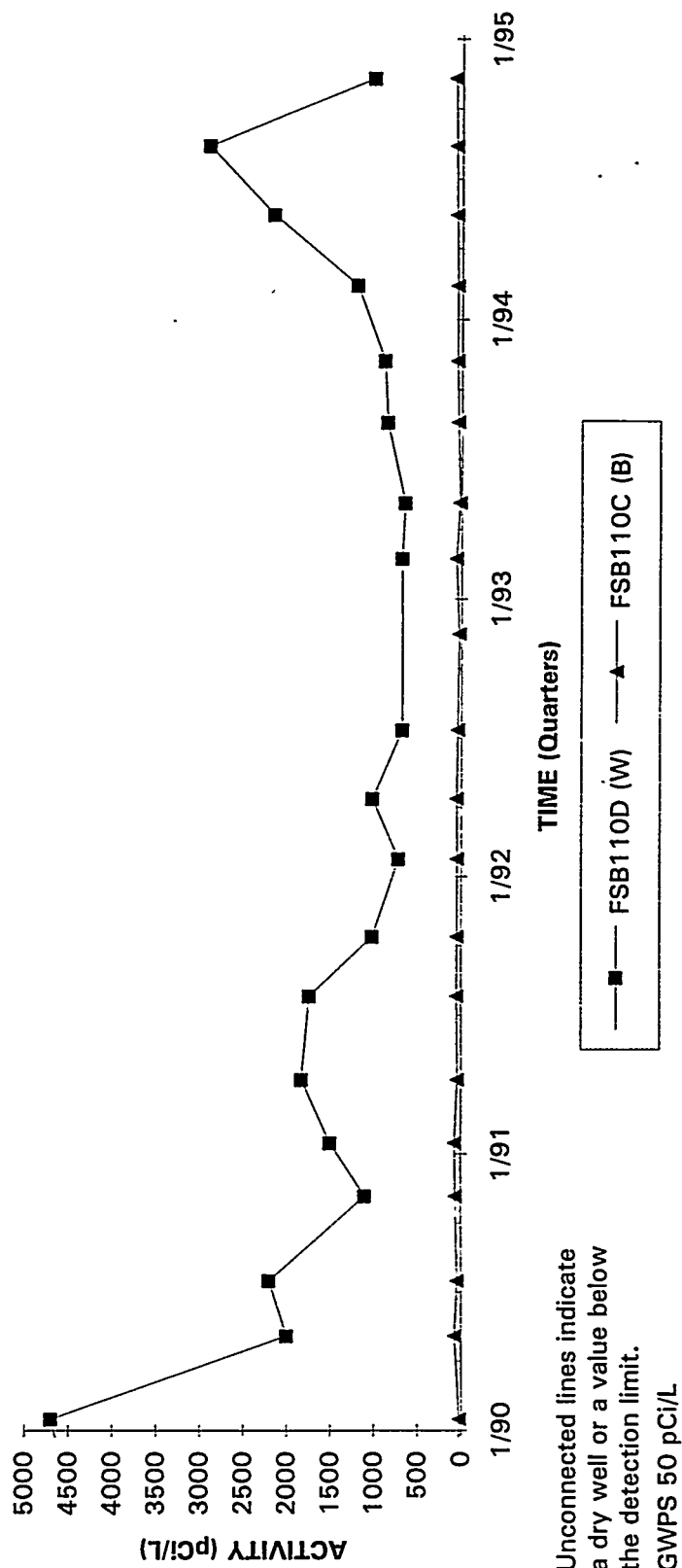
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB104



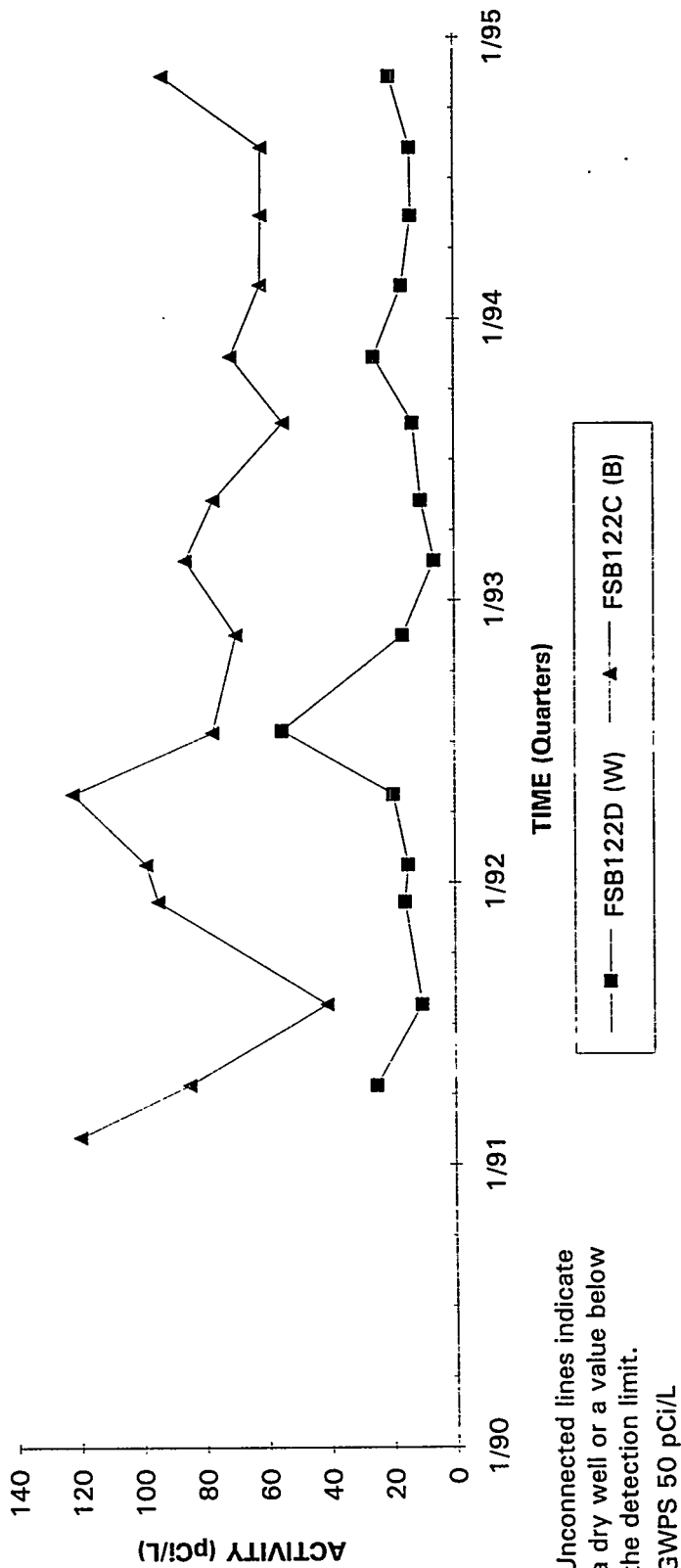
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB110



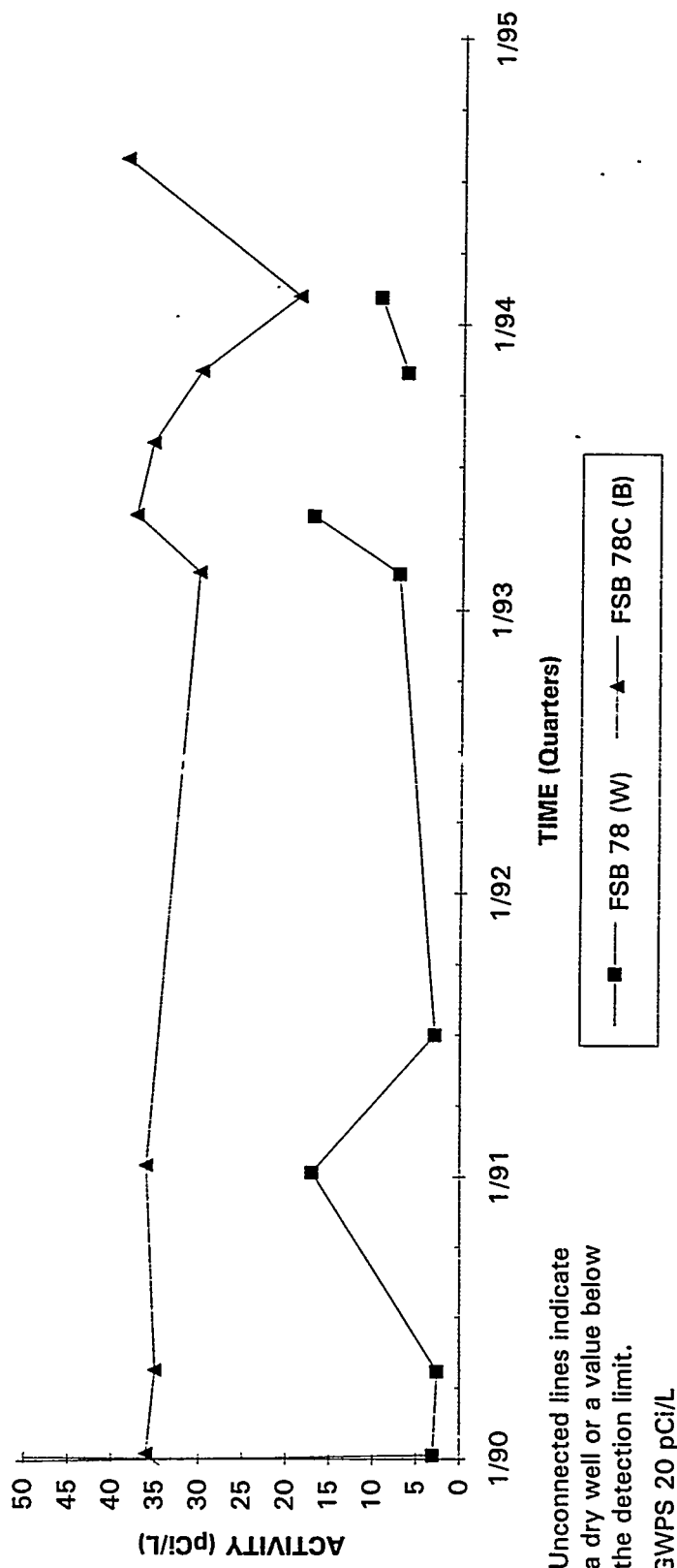
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB122



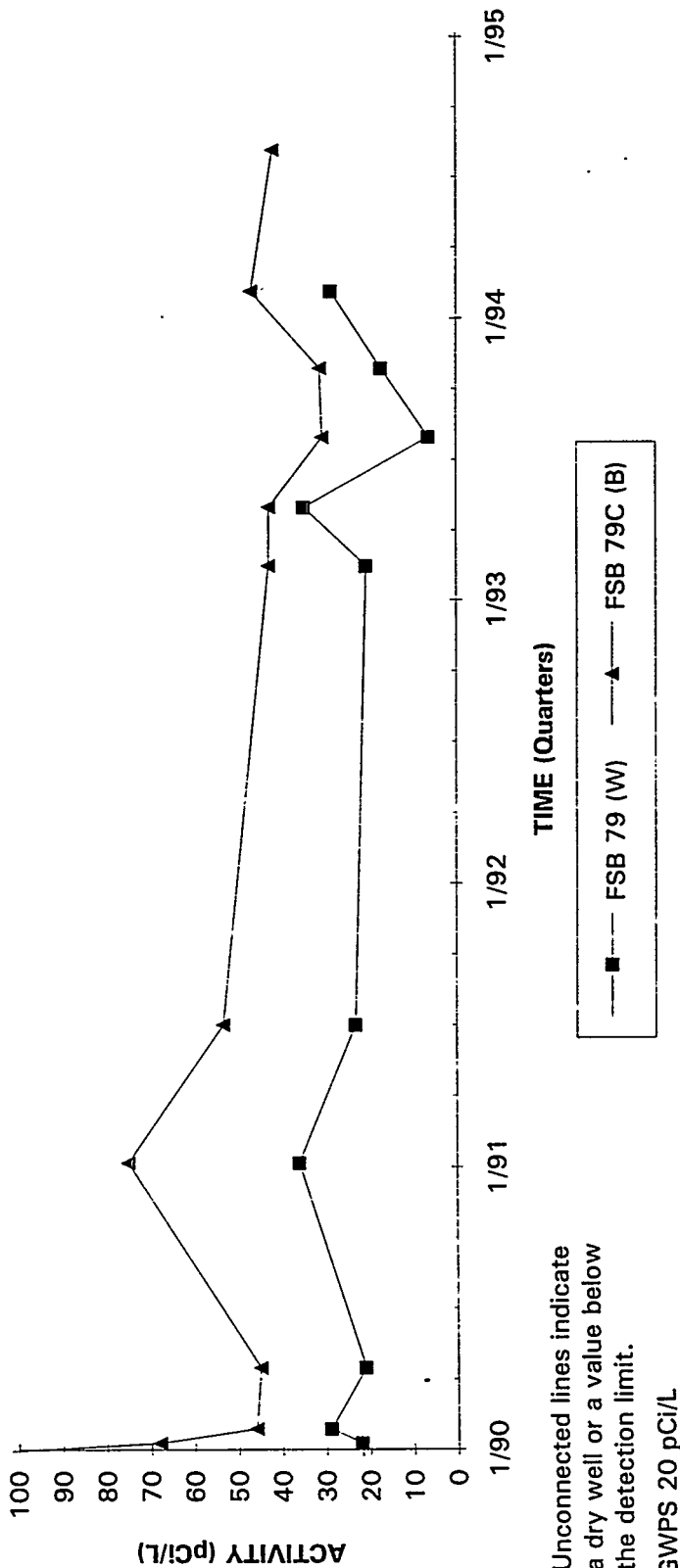
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well Cluster FSB 78



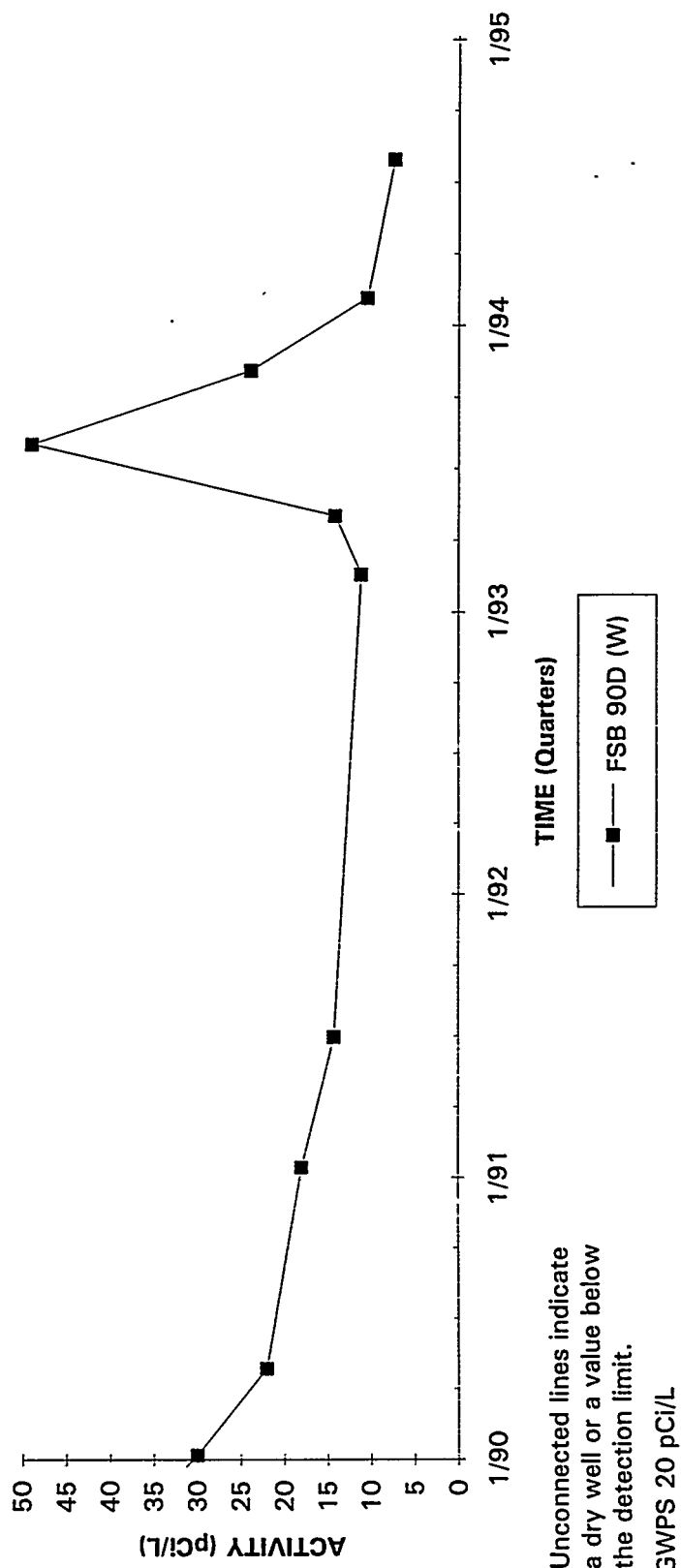
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well Cluster FSB 79



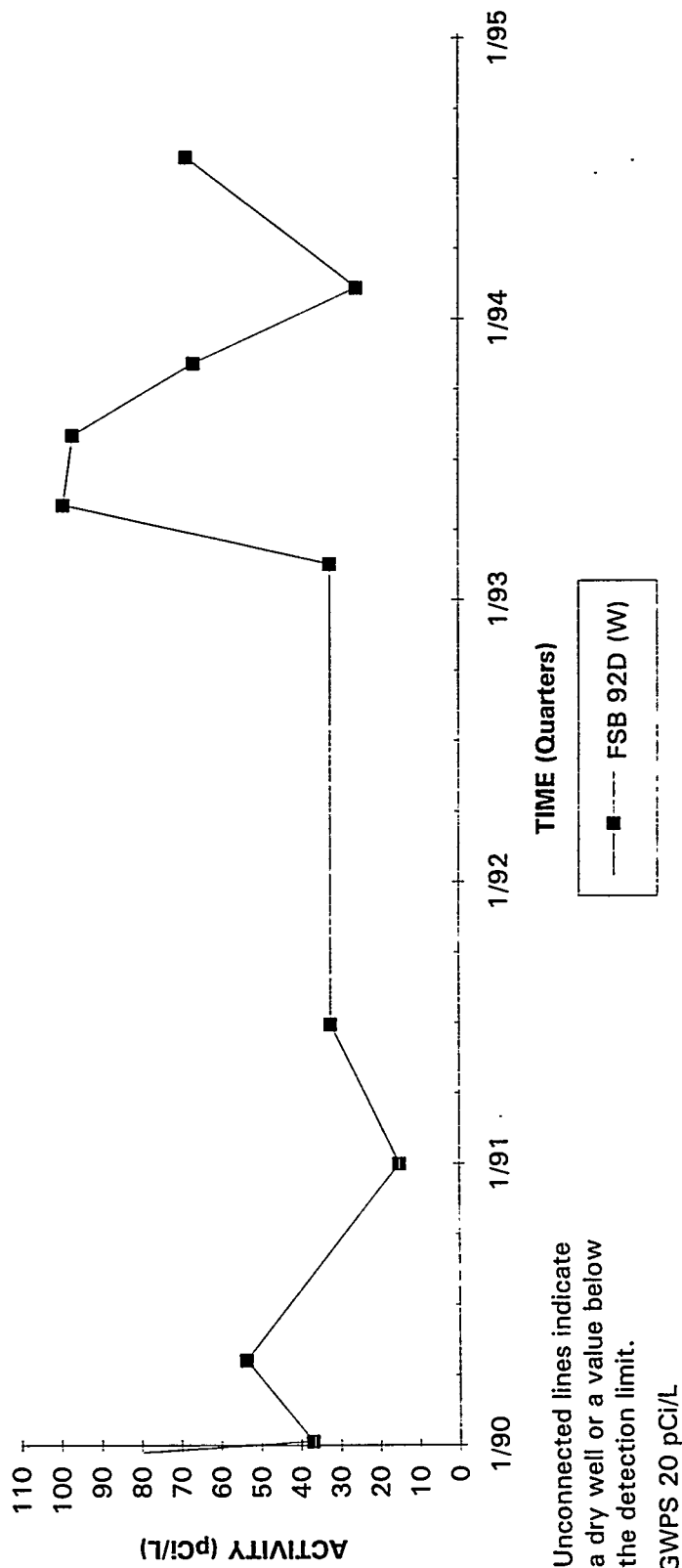
Note: W=Water Table (IIB2); B=Bainwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB 90D



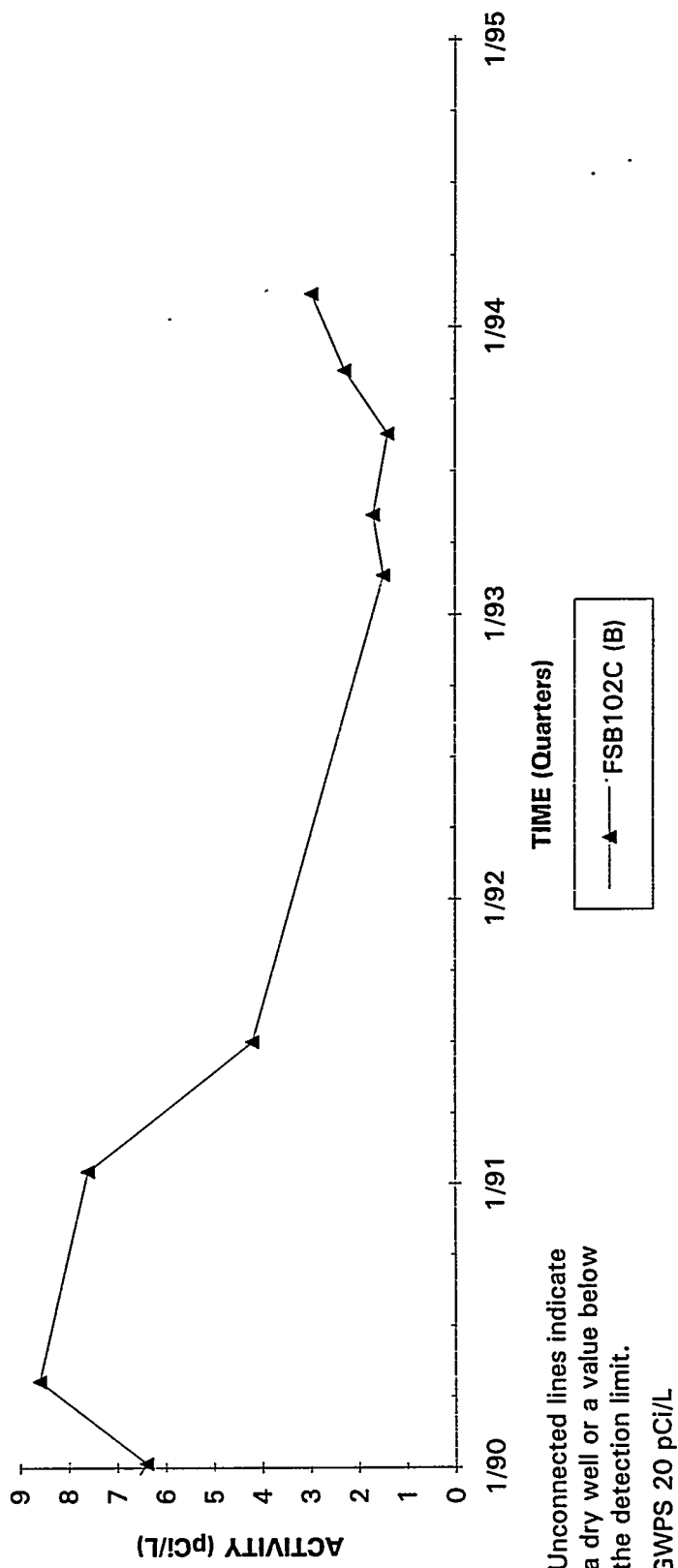
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB 92D



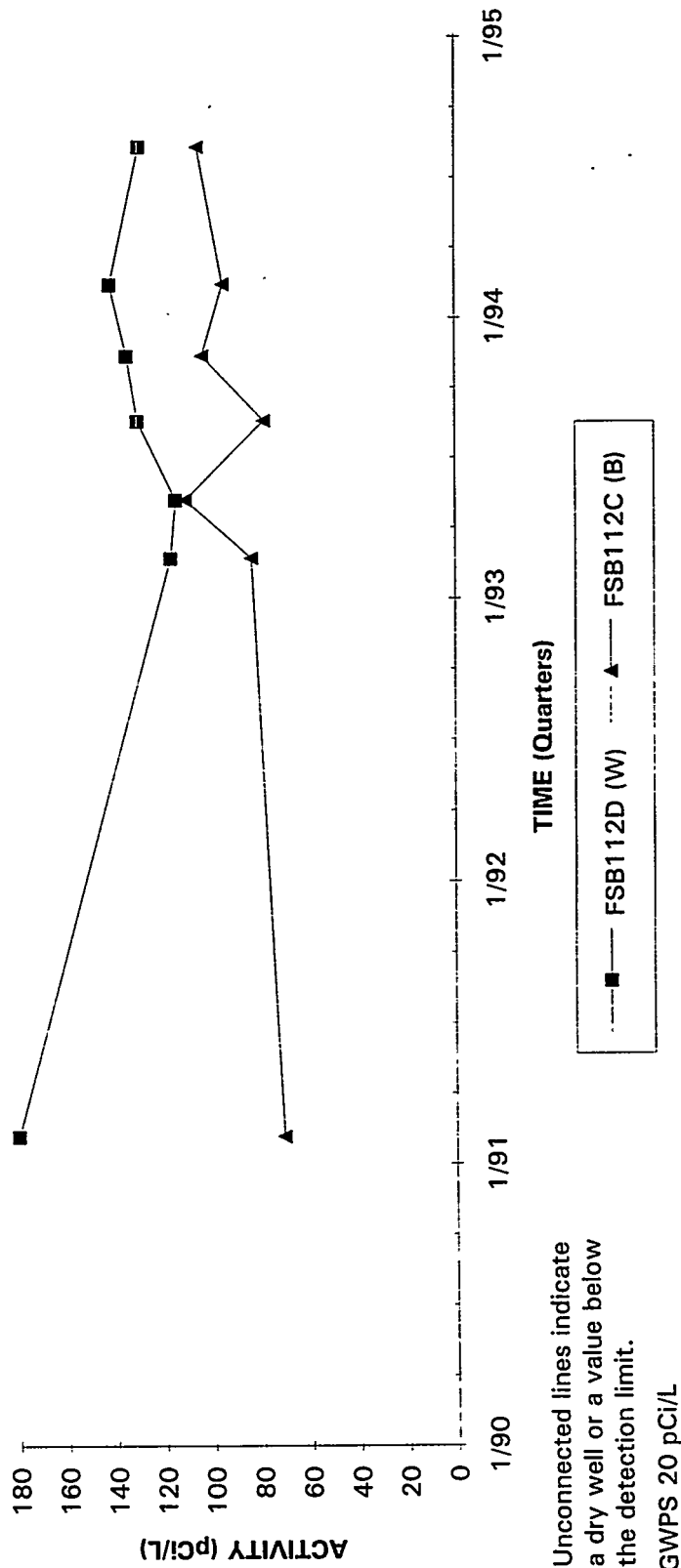
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB102C



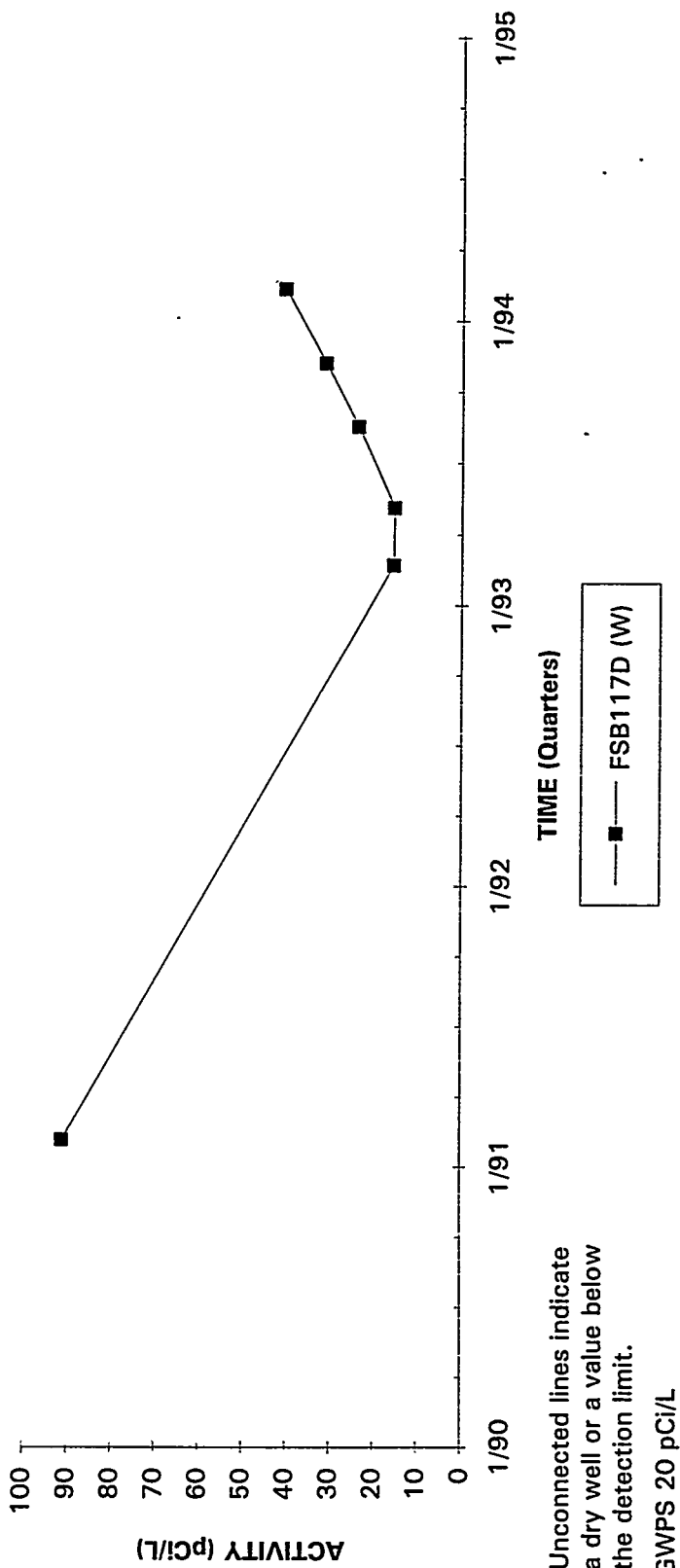
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well Cluster FSB112



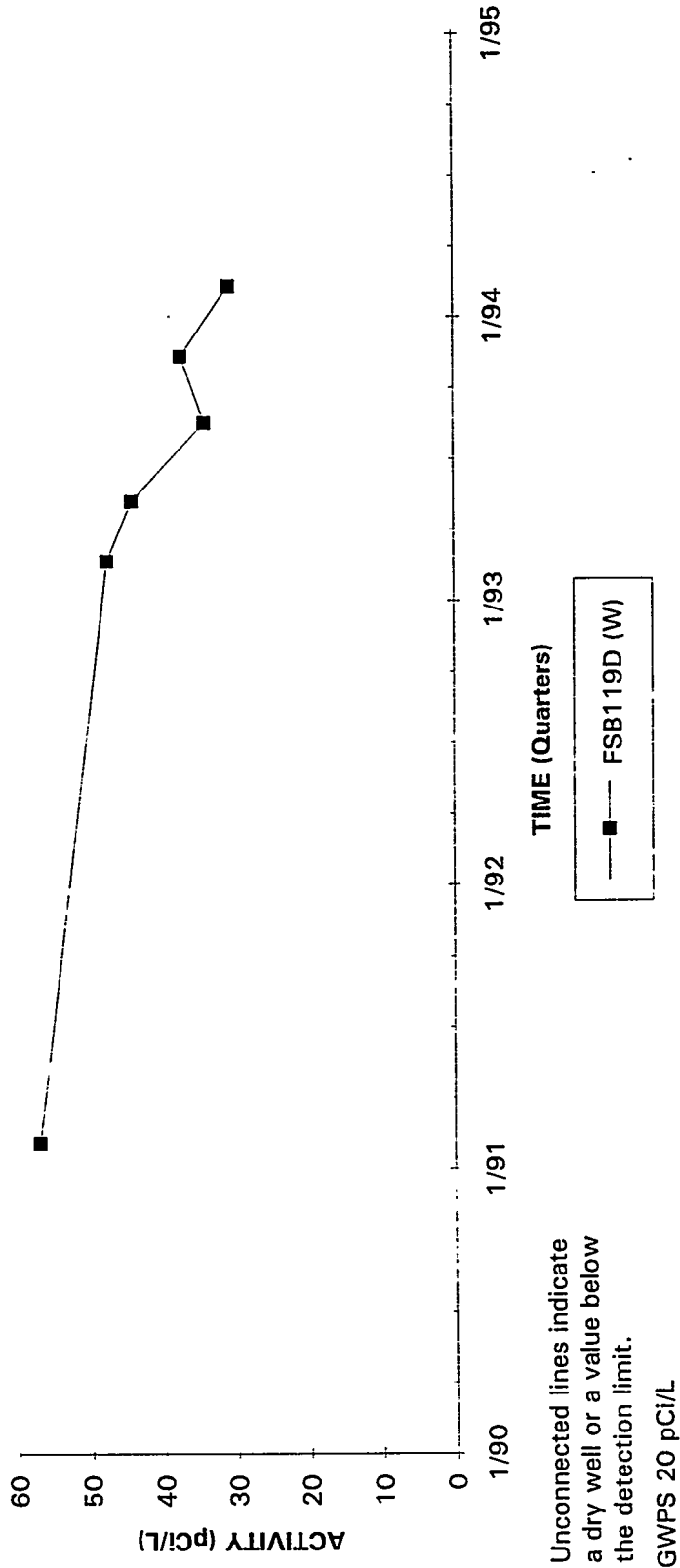
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB117D



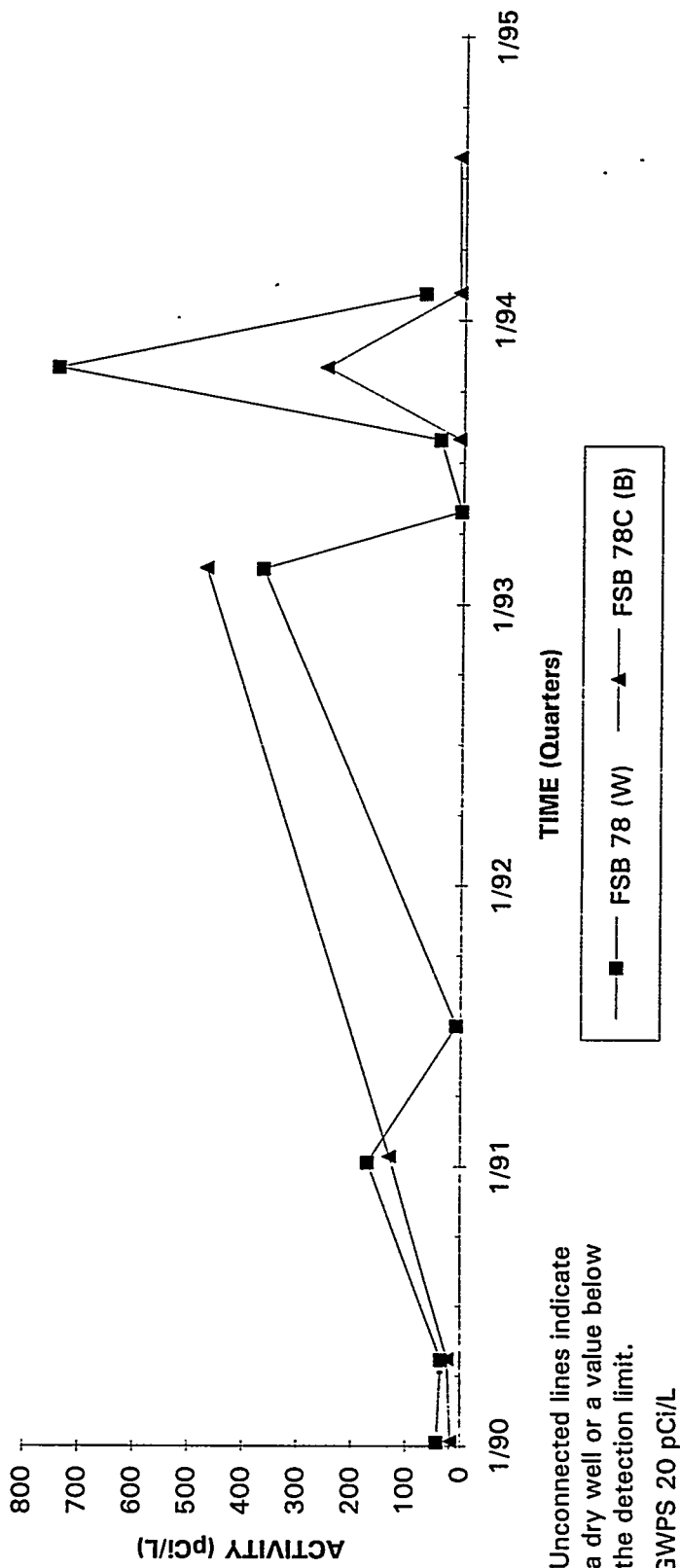
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB119D



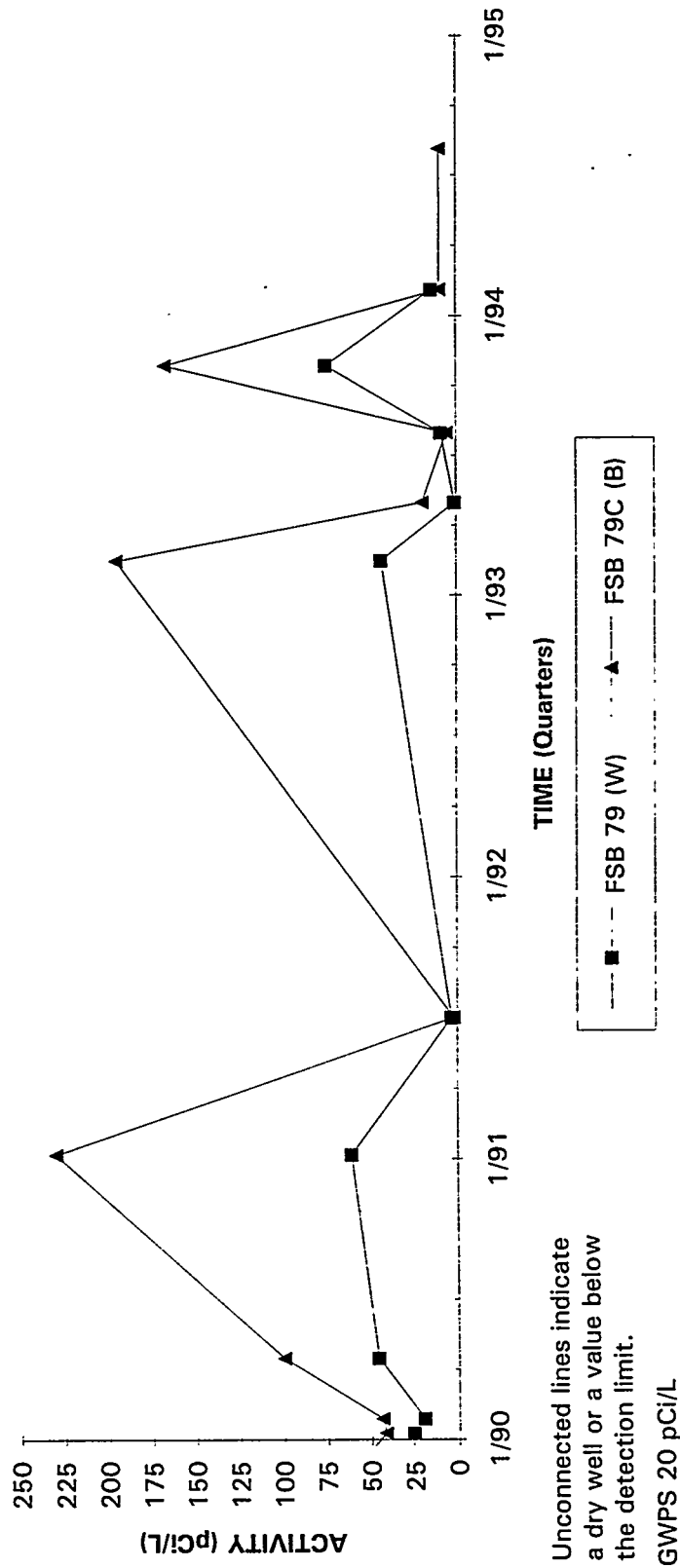
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well Cluster FSB 78



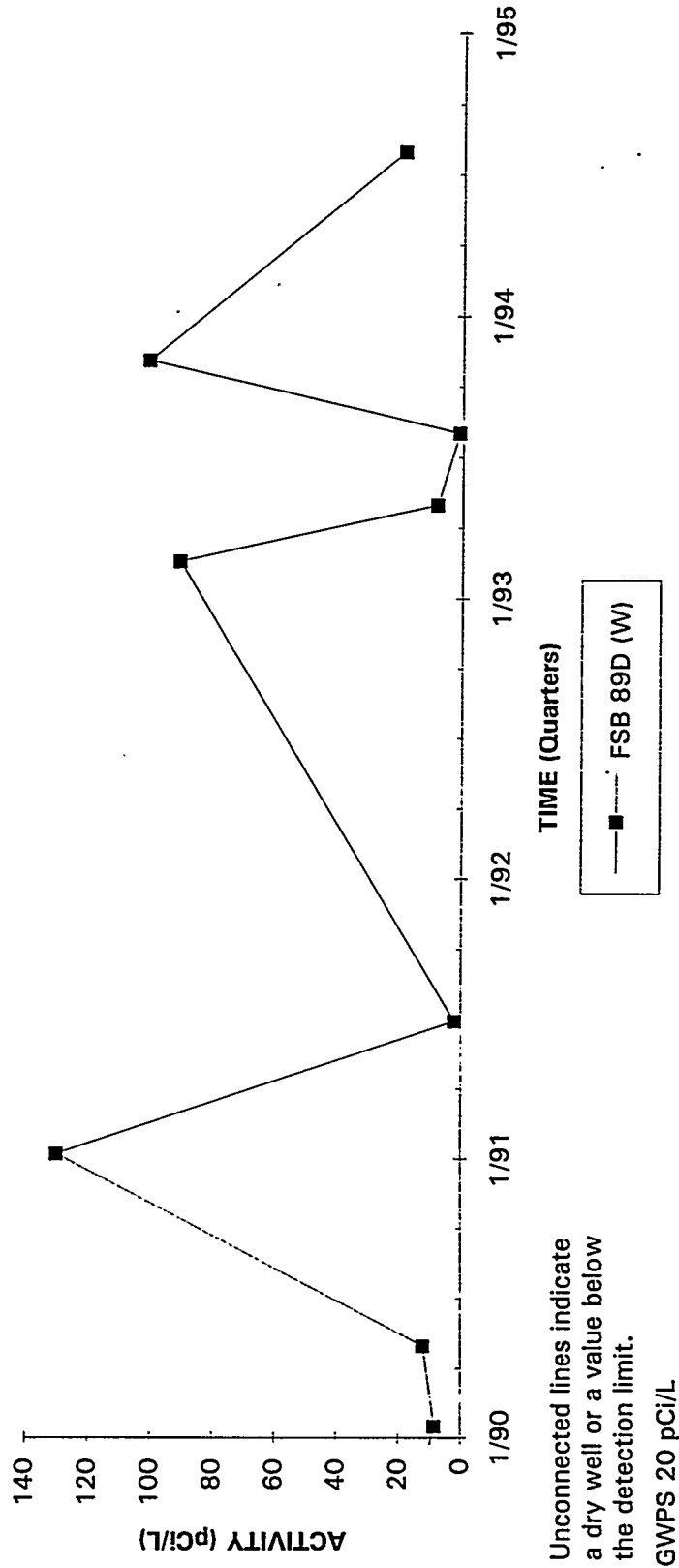
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well Cluster FSB 79



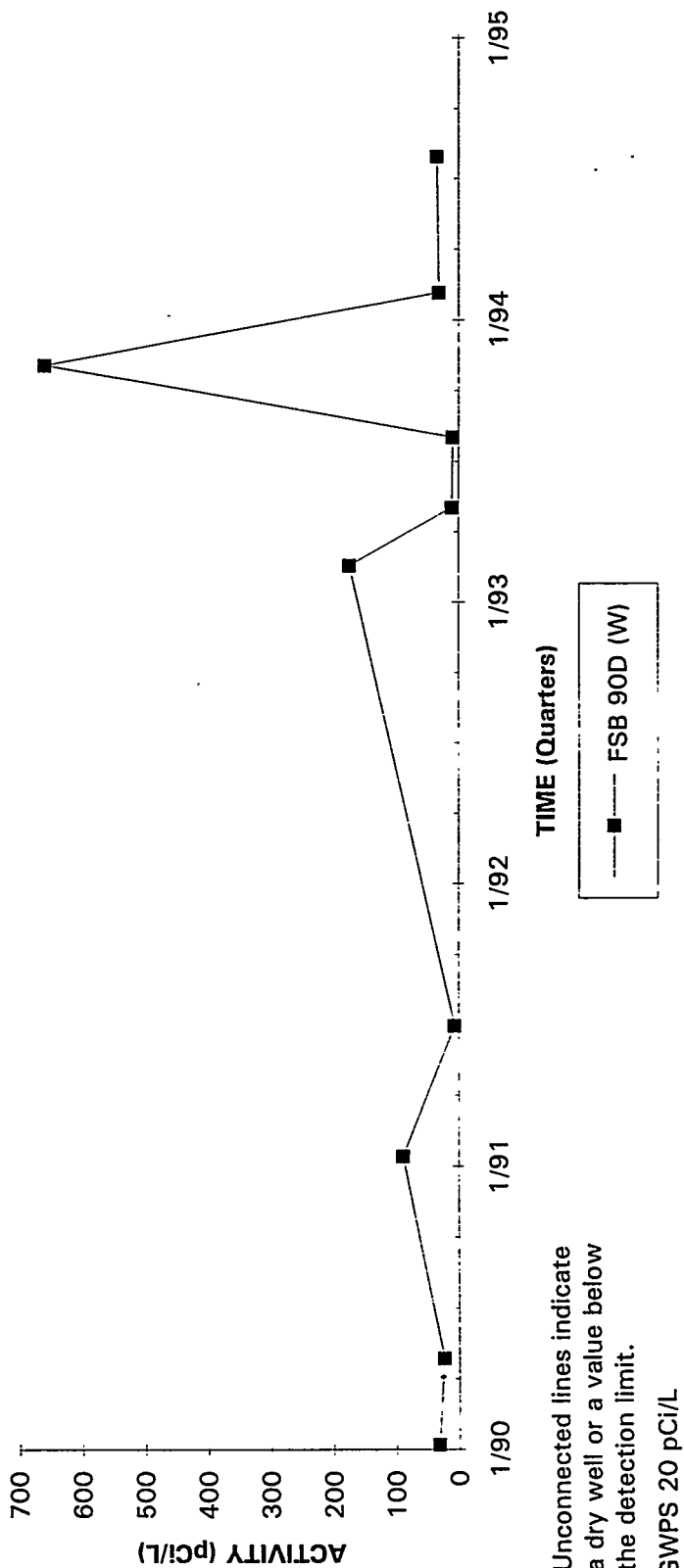
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB 89D



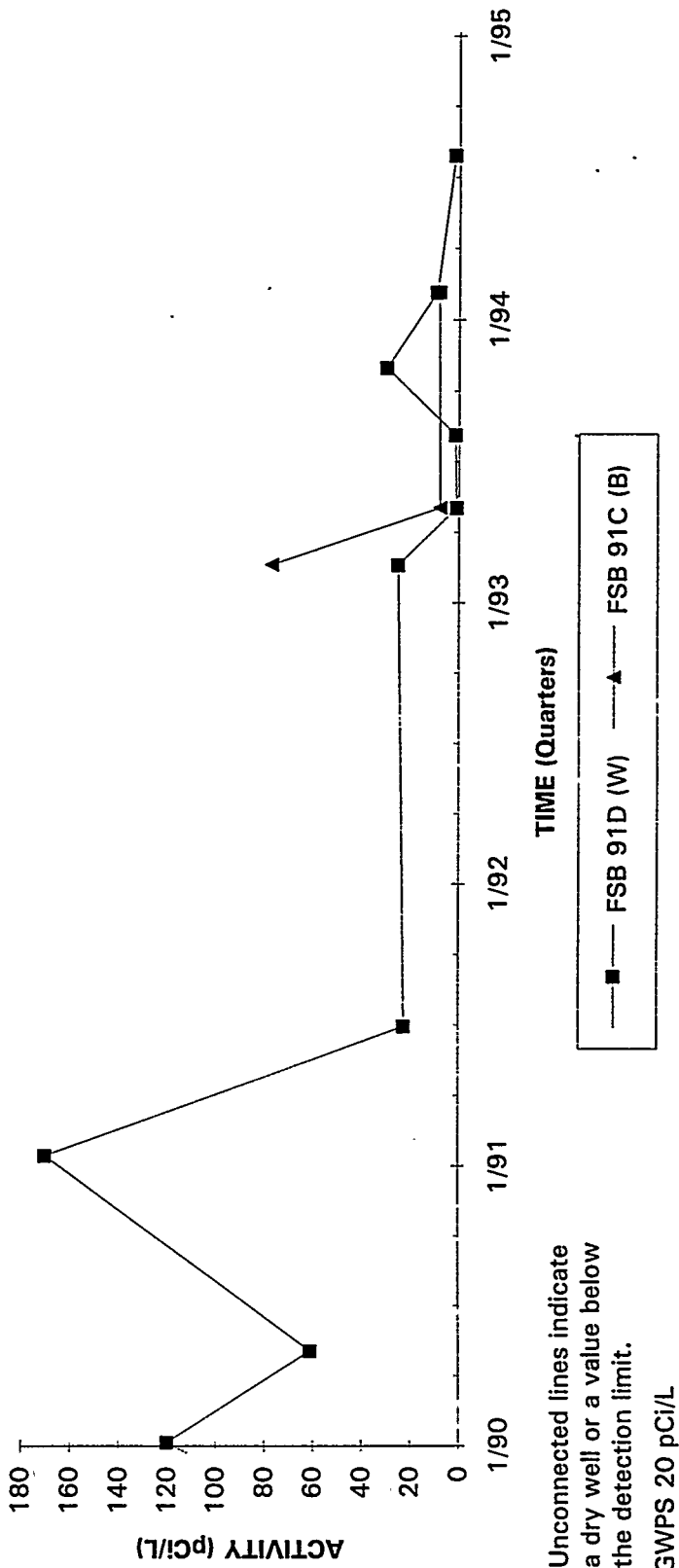
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB 90D



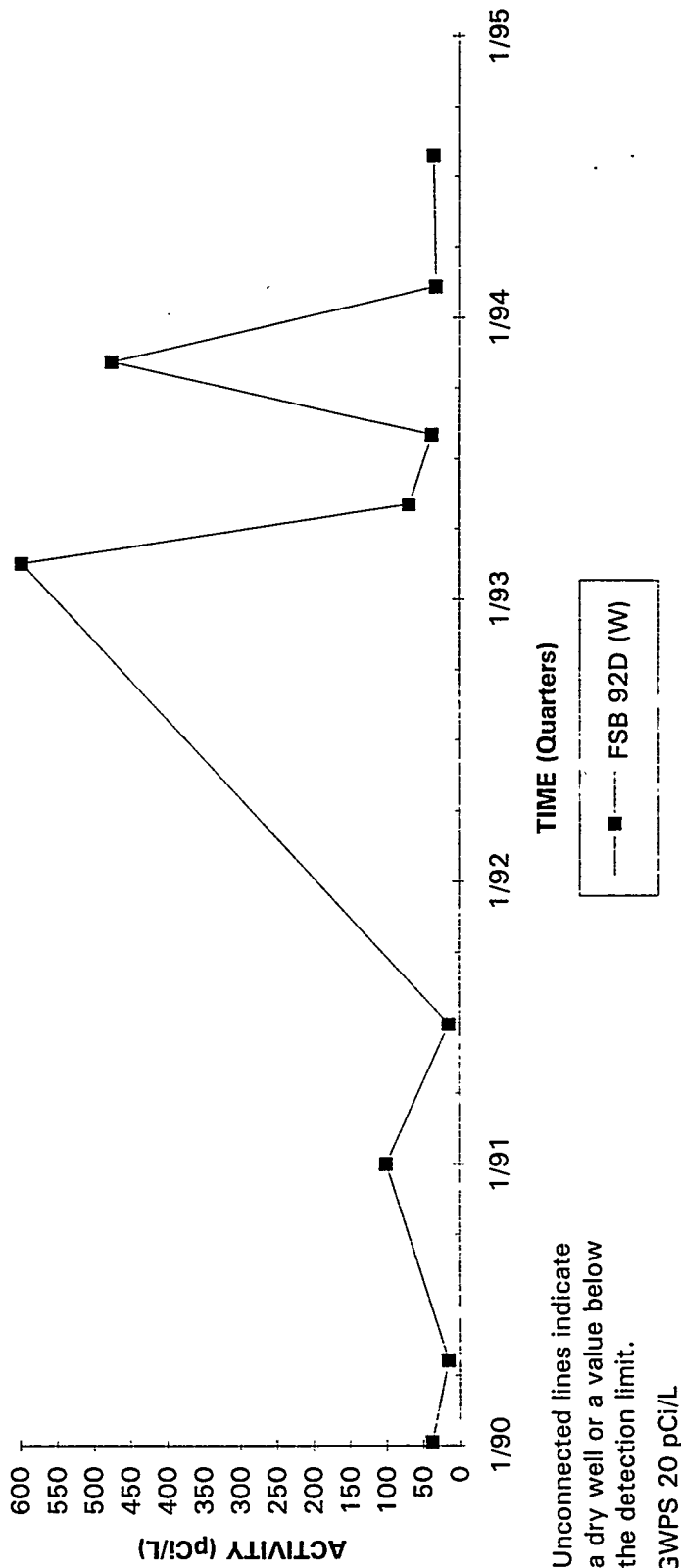
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well Cluster FSB 91



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB 92D

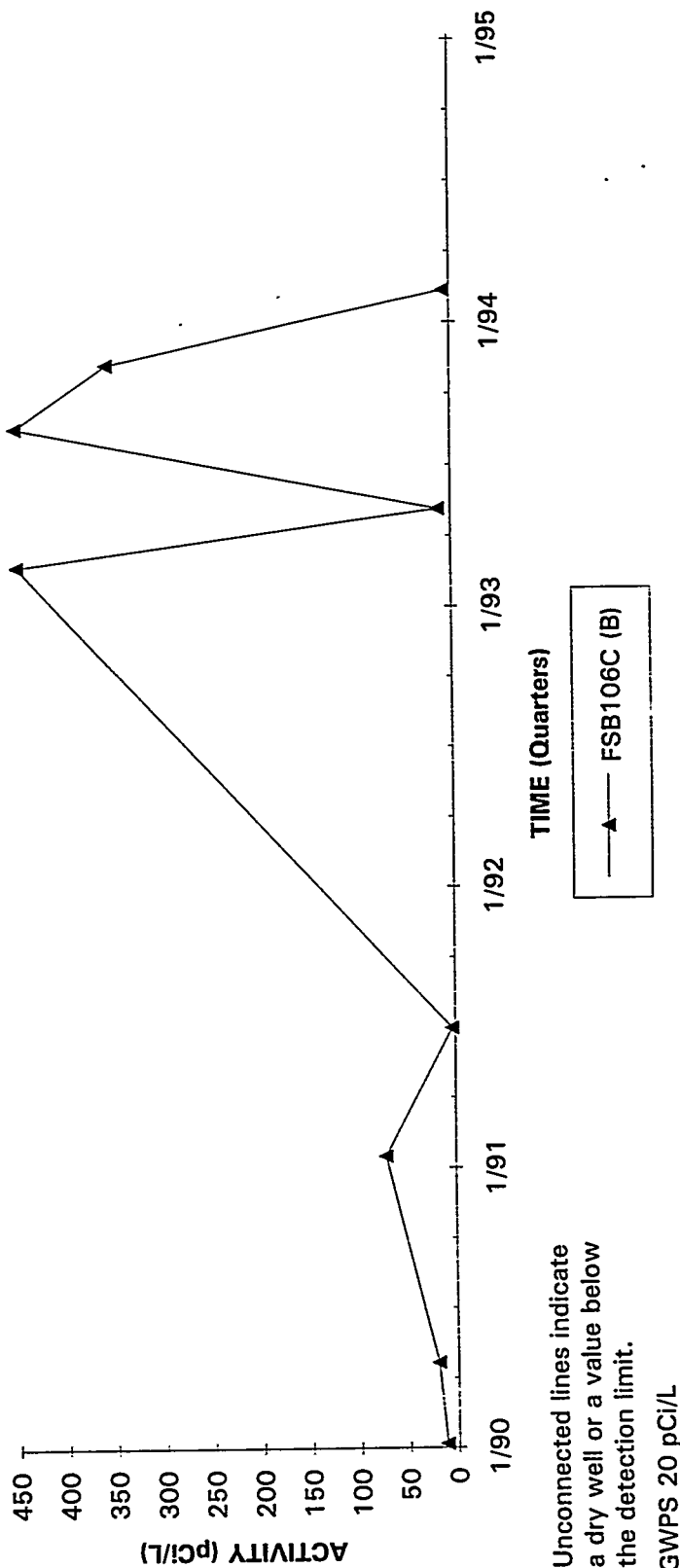


Unconnected lines indicate
a dry well or a value below
the detection limit.

GWPS 20 pCi/L

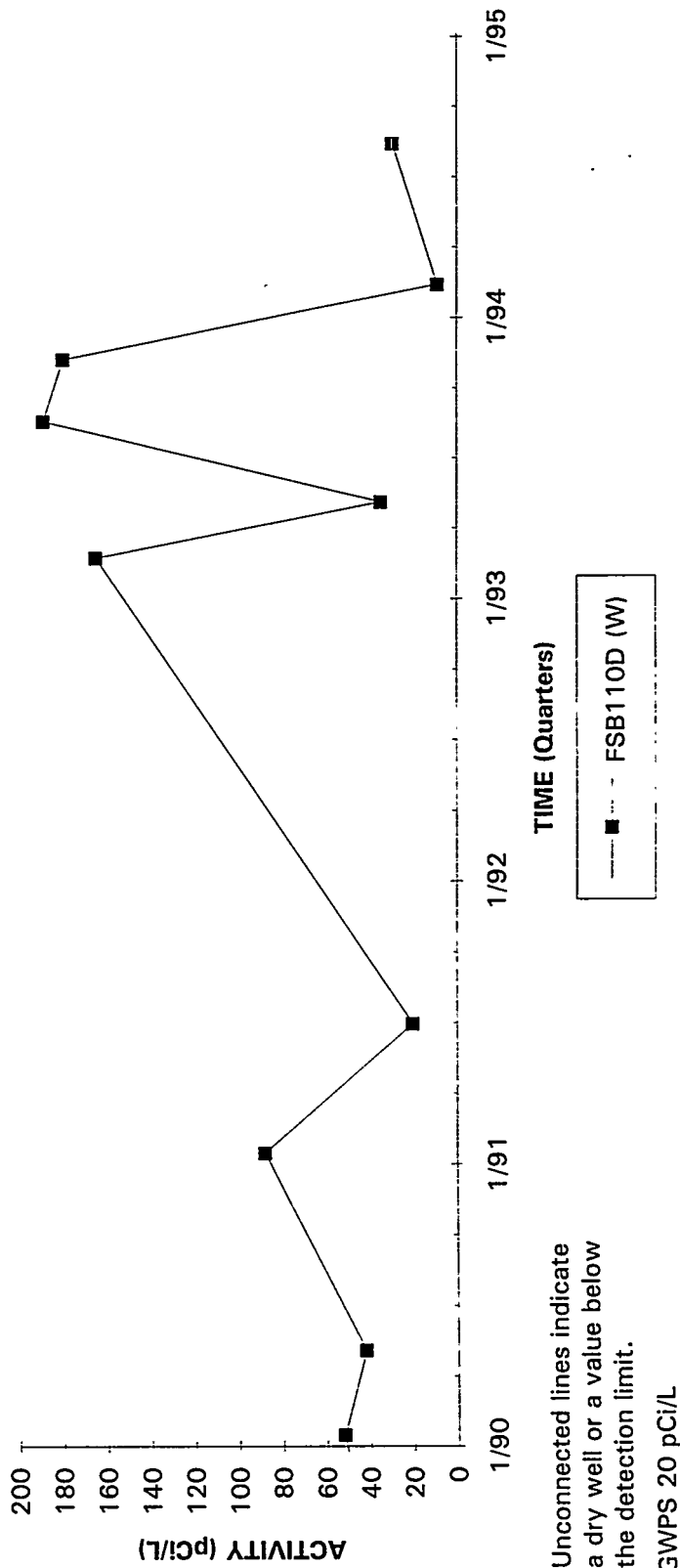
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB106C



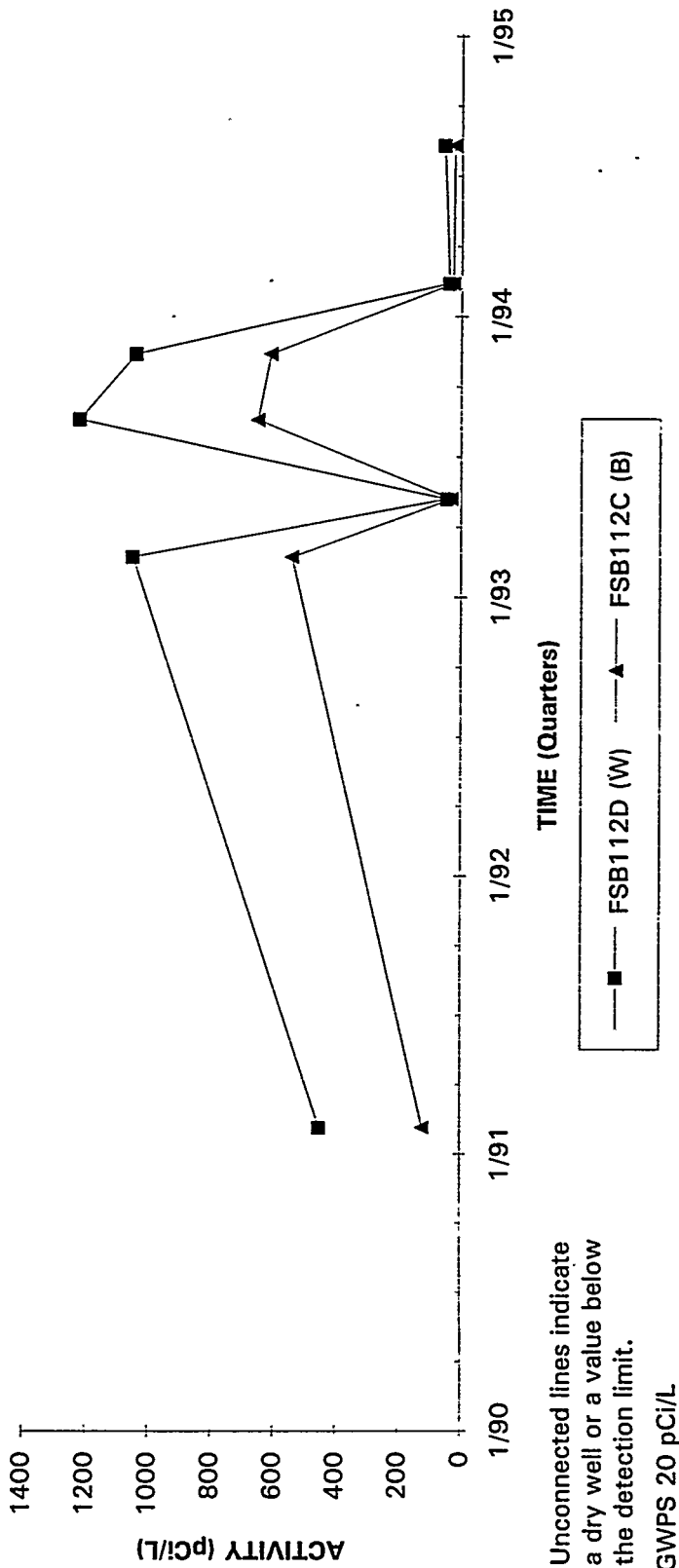
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB110D



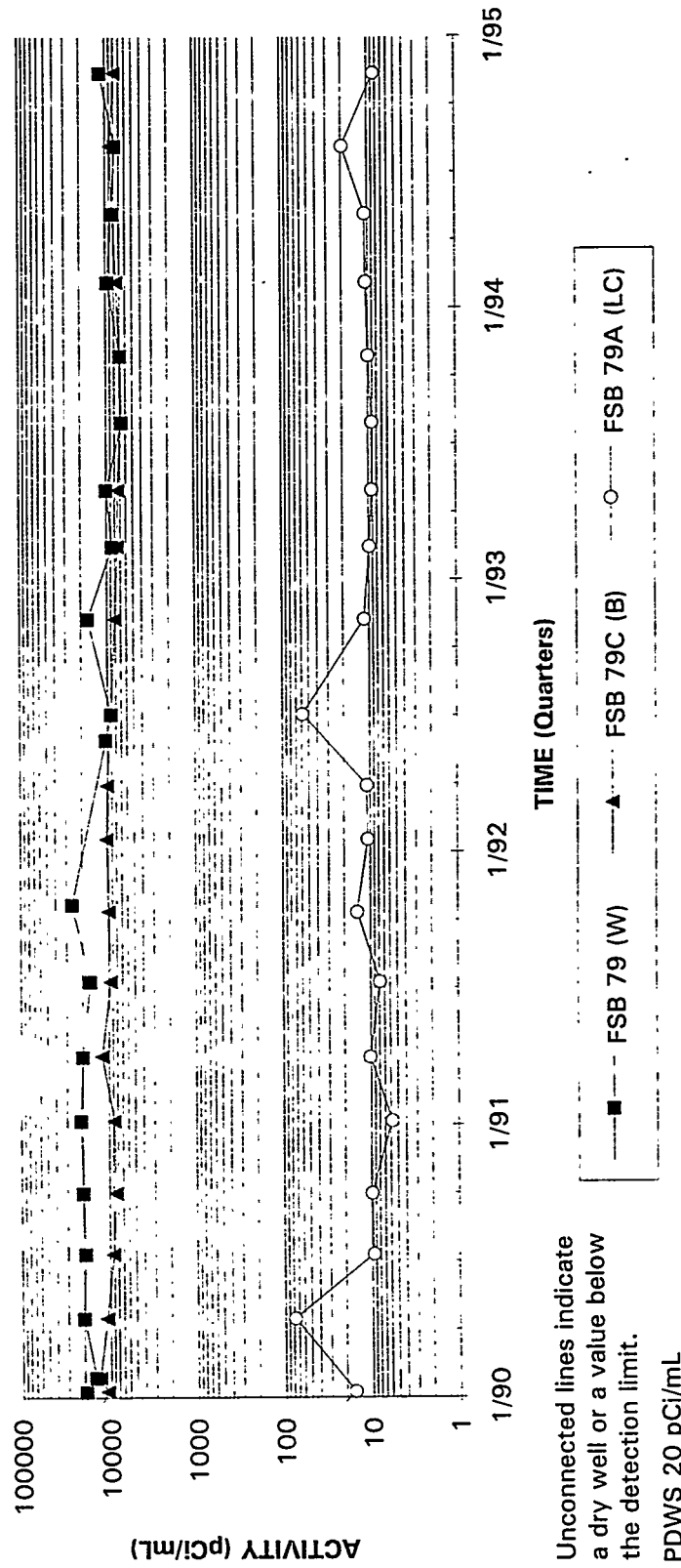
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well Cluster FSB112



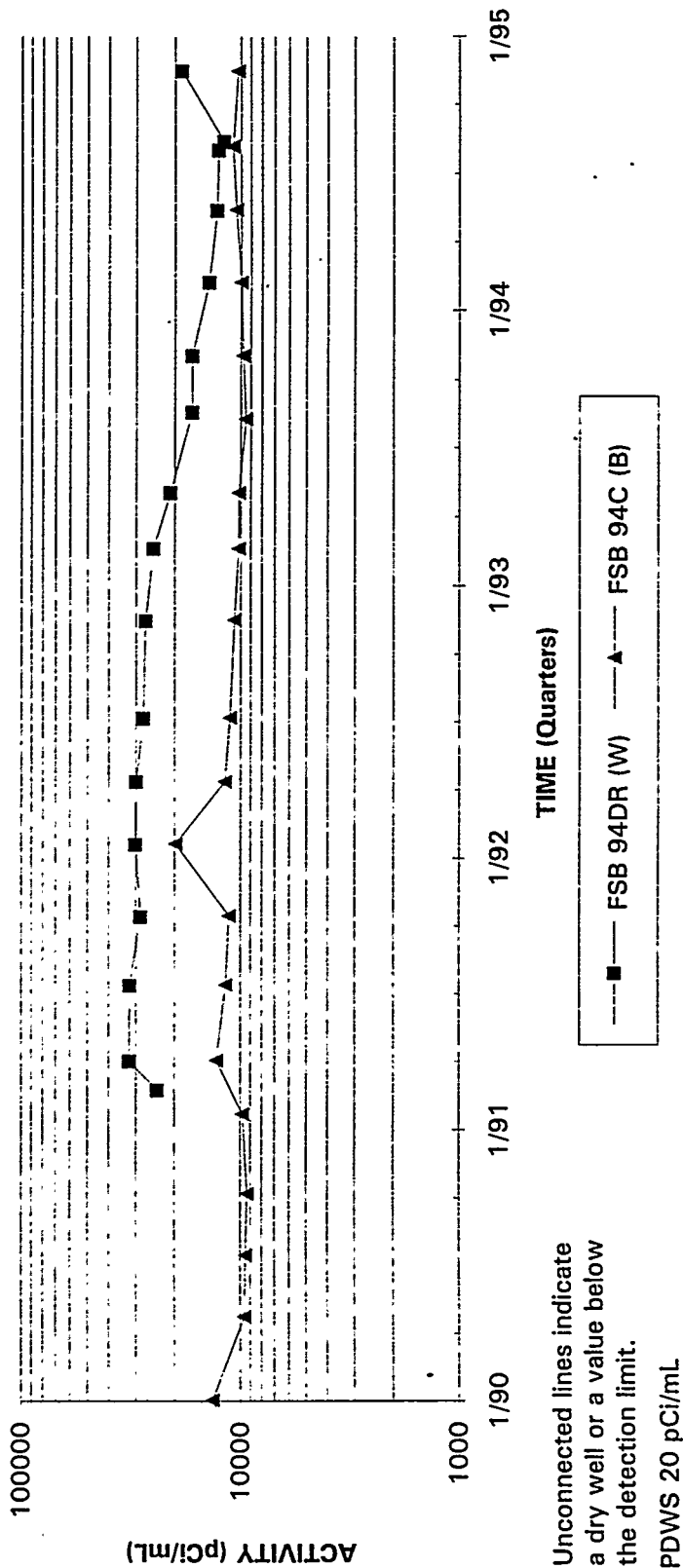
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB 79



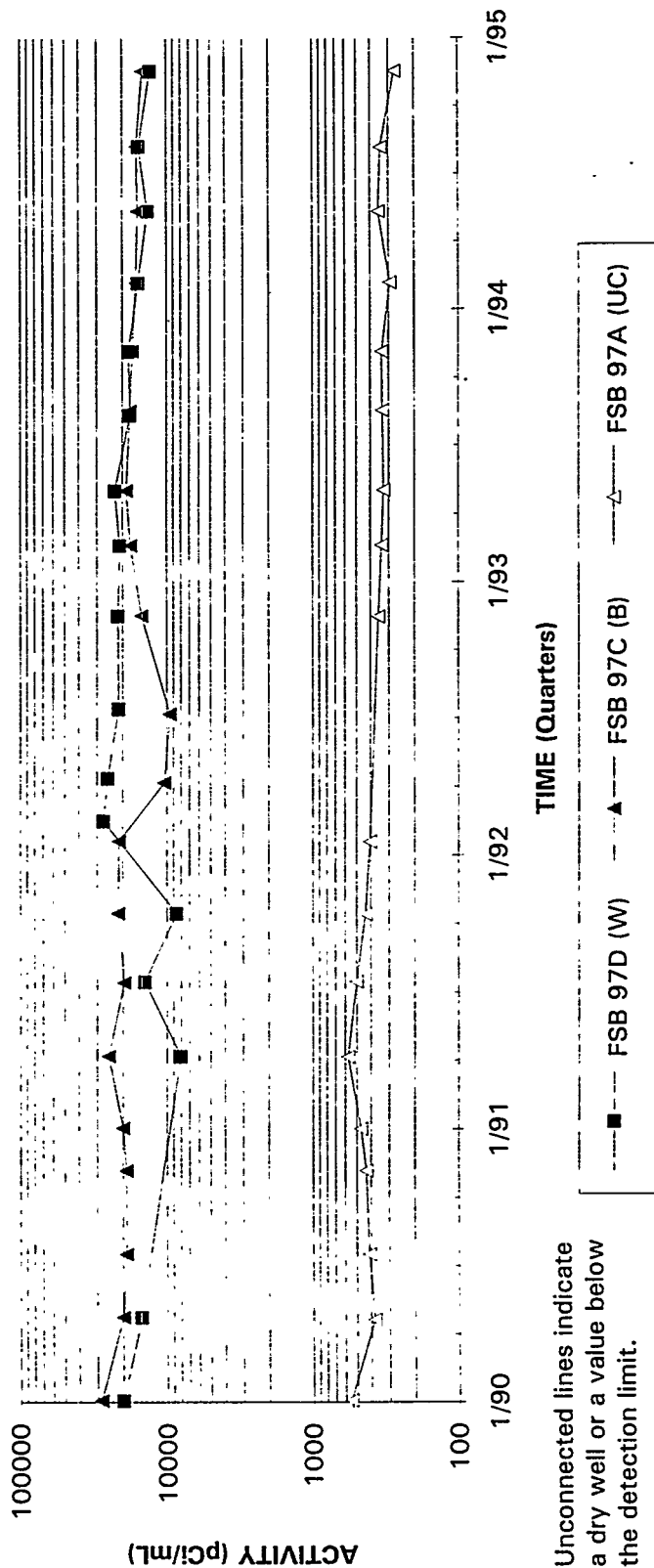
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB 94



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB 97

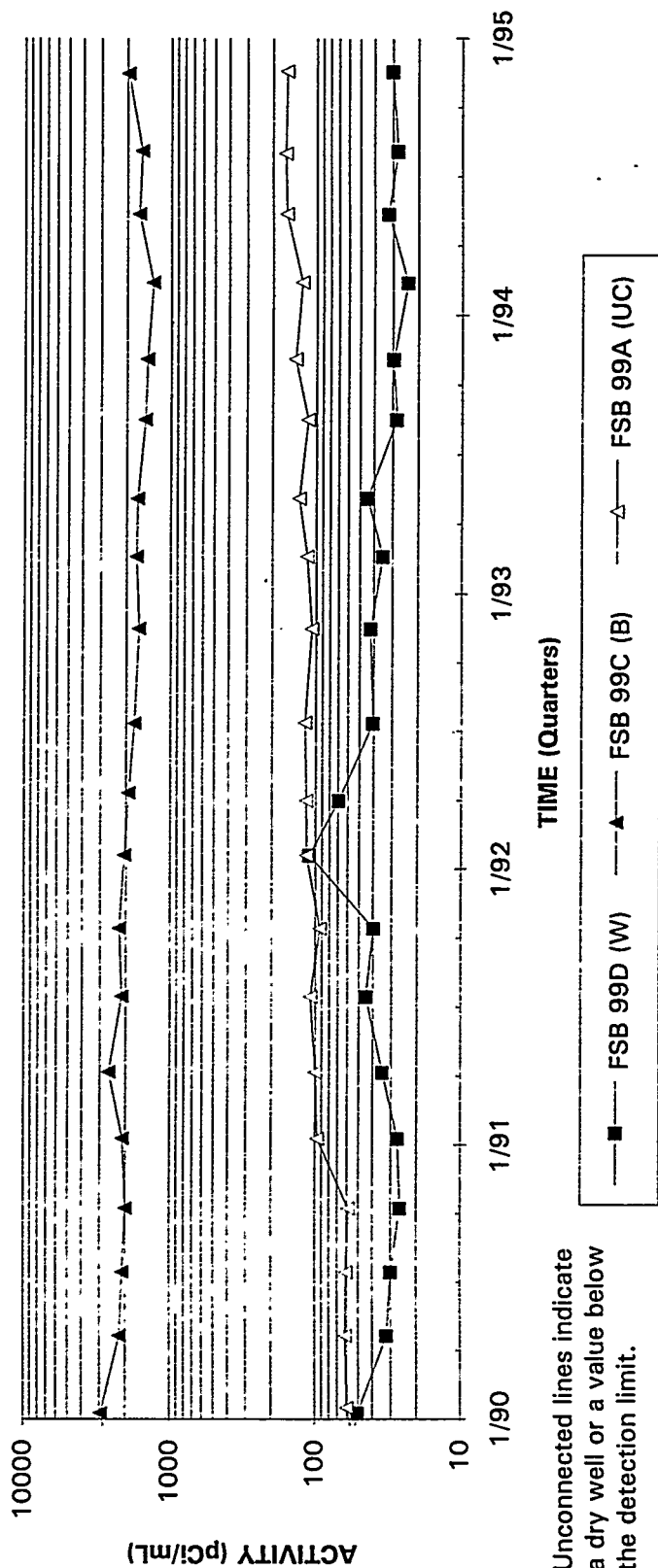


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB 99

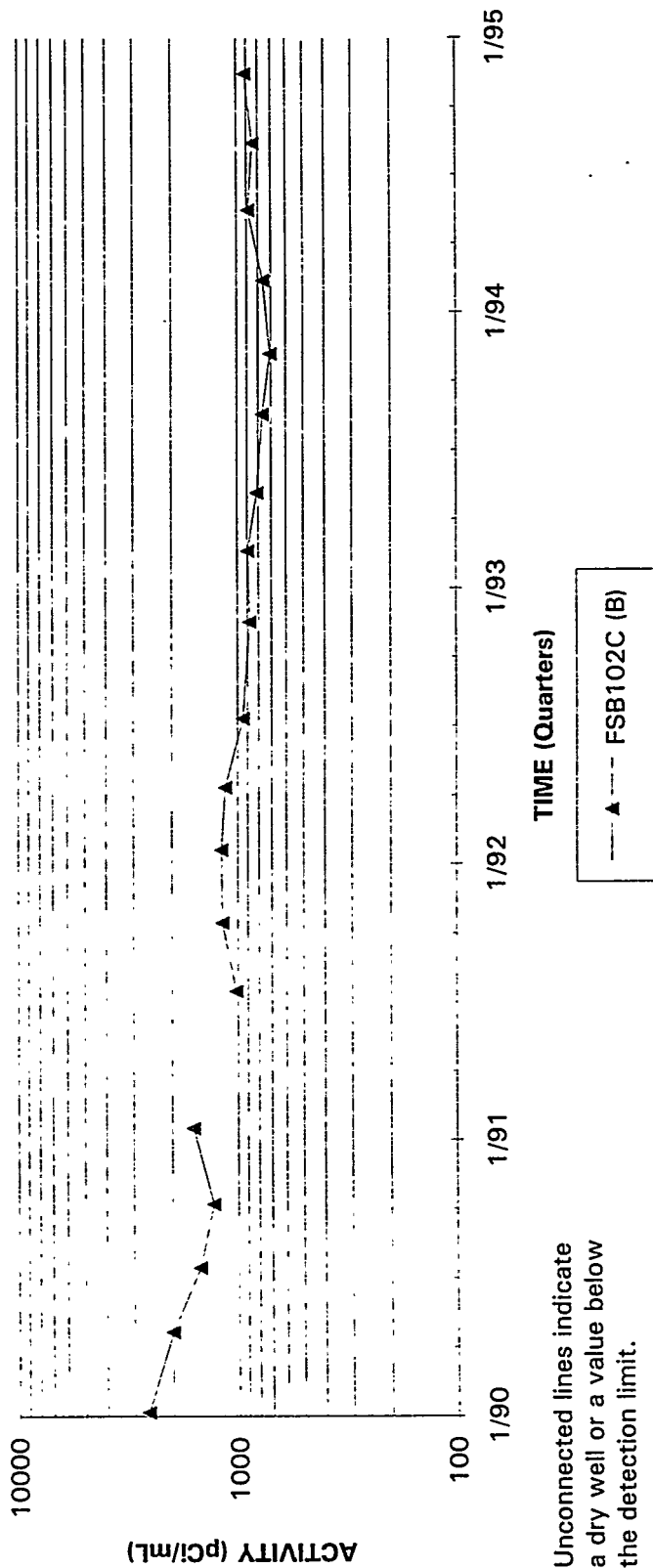


Unconnected lines indicate
a dry well or a value below
the detection limit.

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well FSB102C

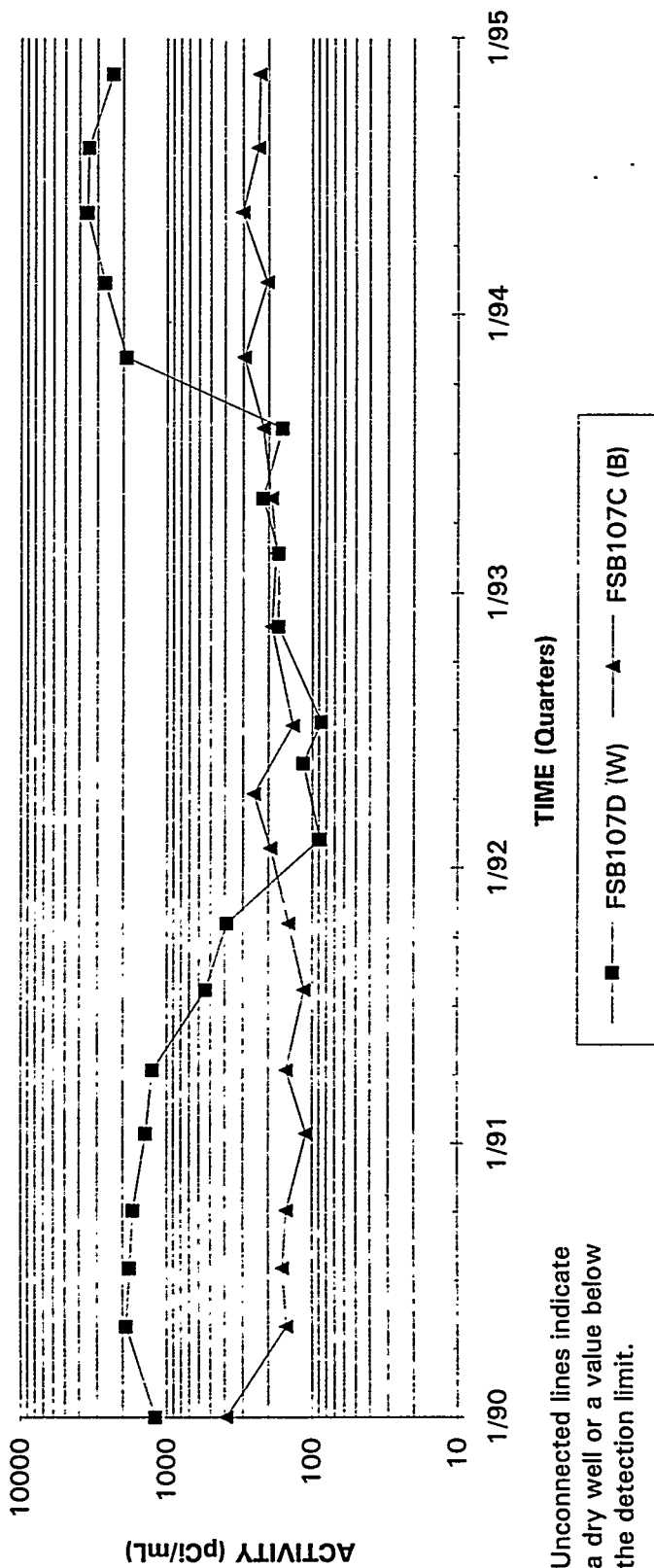


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 20 pCi/mL

Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB107

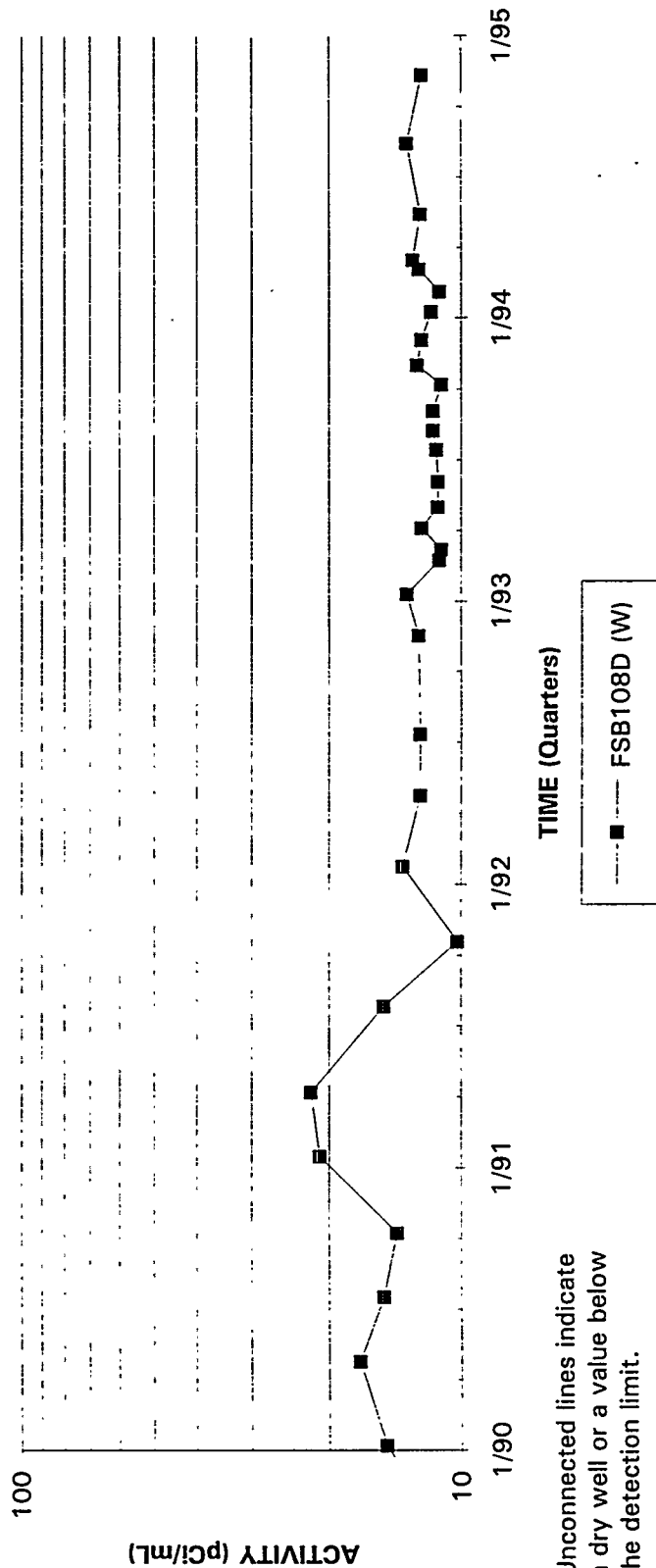


Unconnected lines indicate
a dry well or a value below
the detection limit.

PDWS 20 pCi/mL

Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well FSB108D

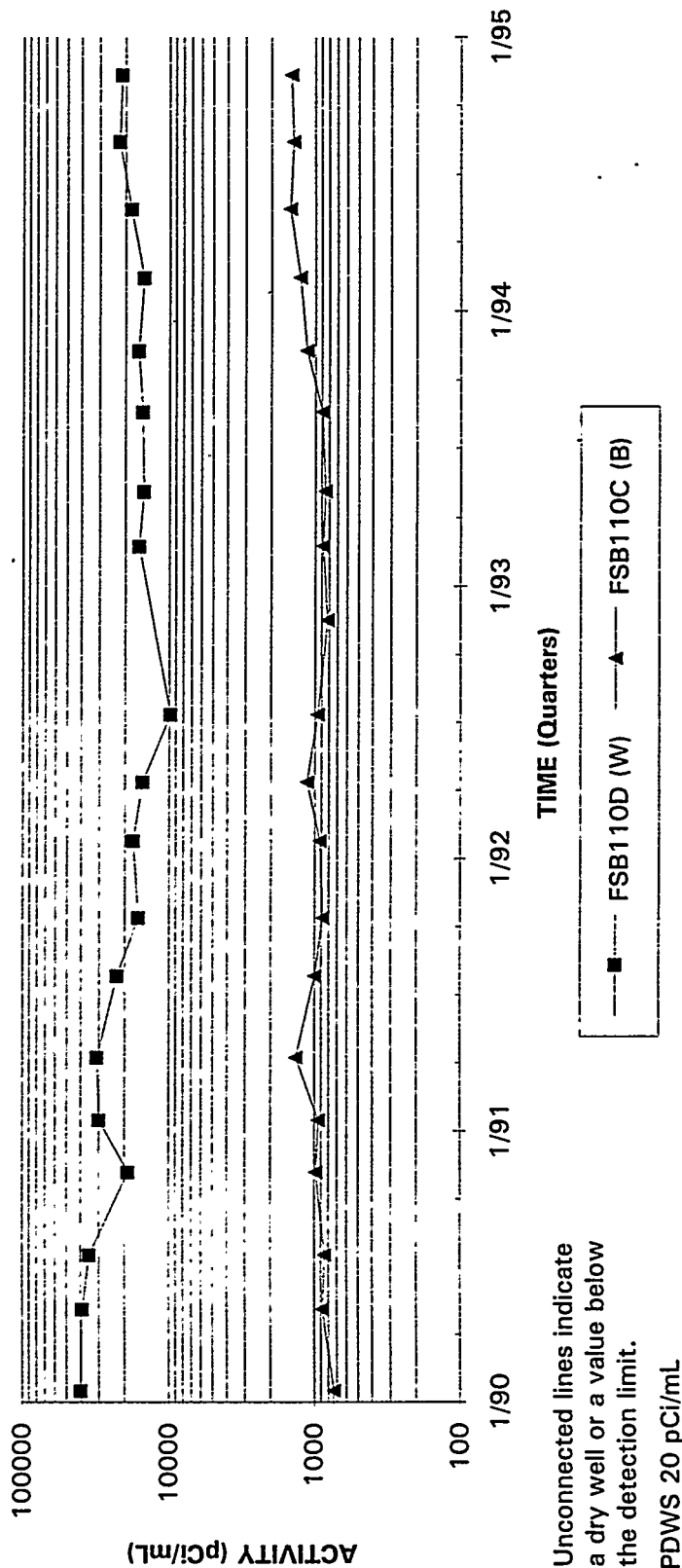


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 20 pCi/mL

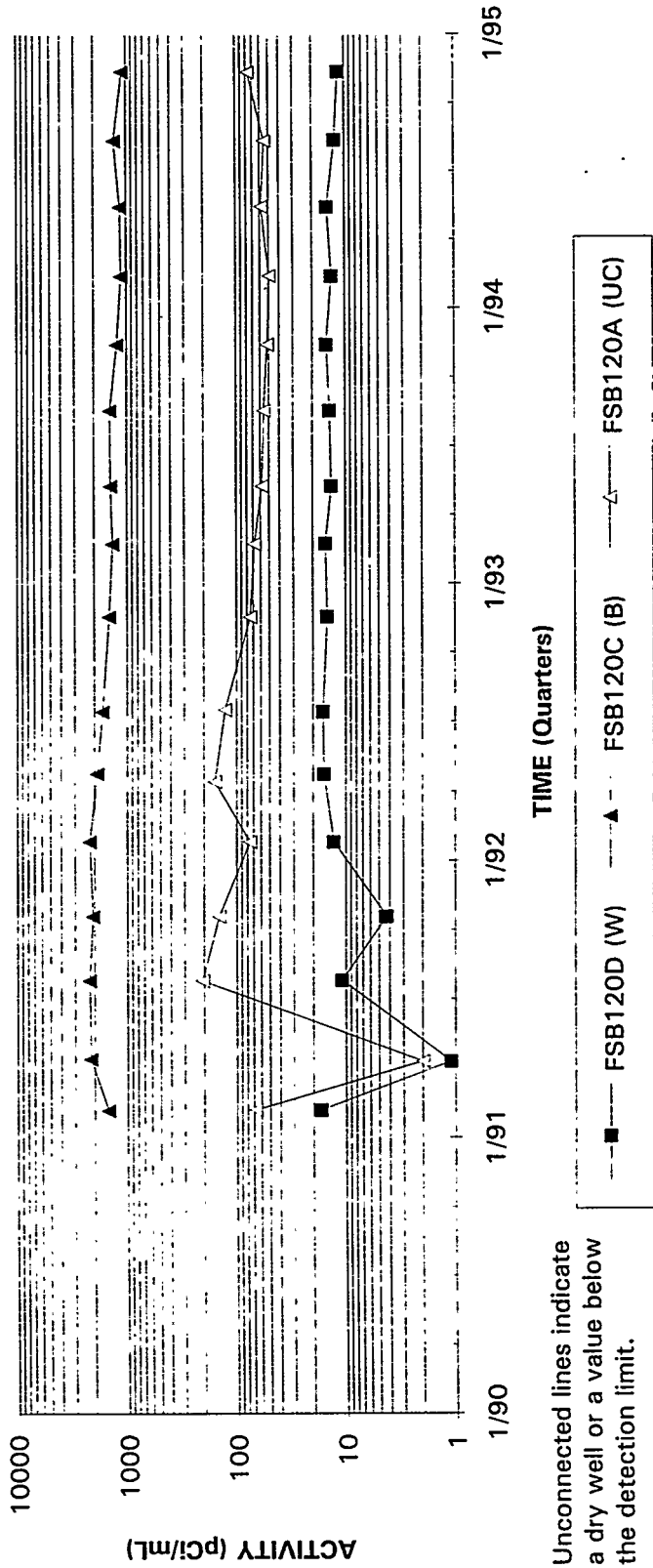
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB110



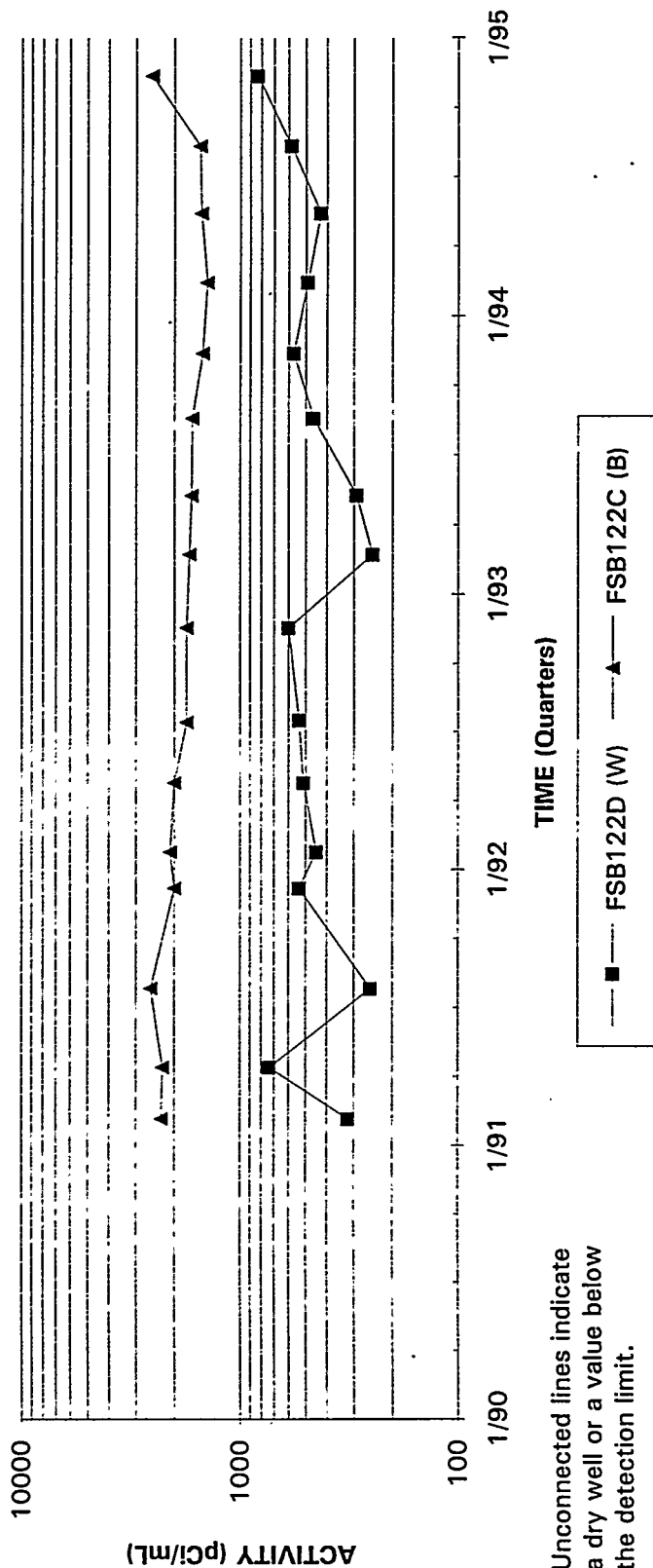
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB120



Note: W=Water Table (IB2); B=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB122



Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 20 pCi/mL

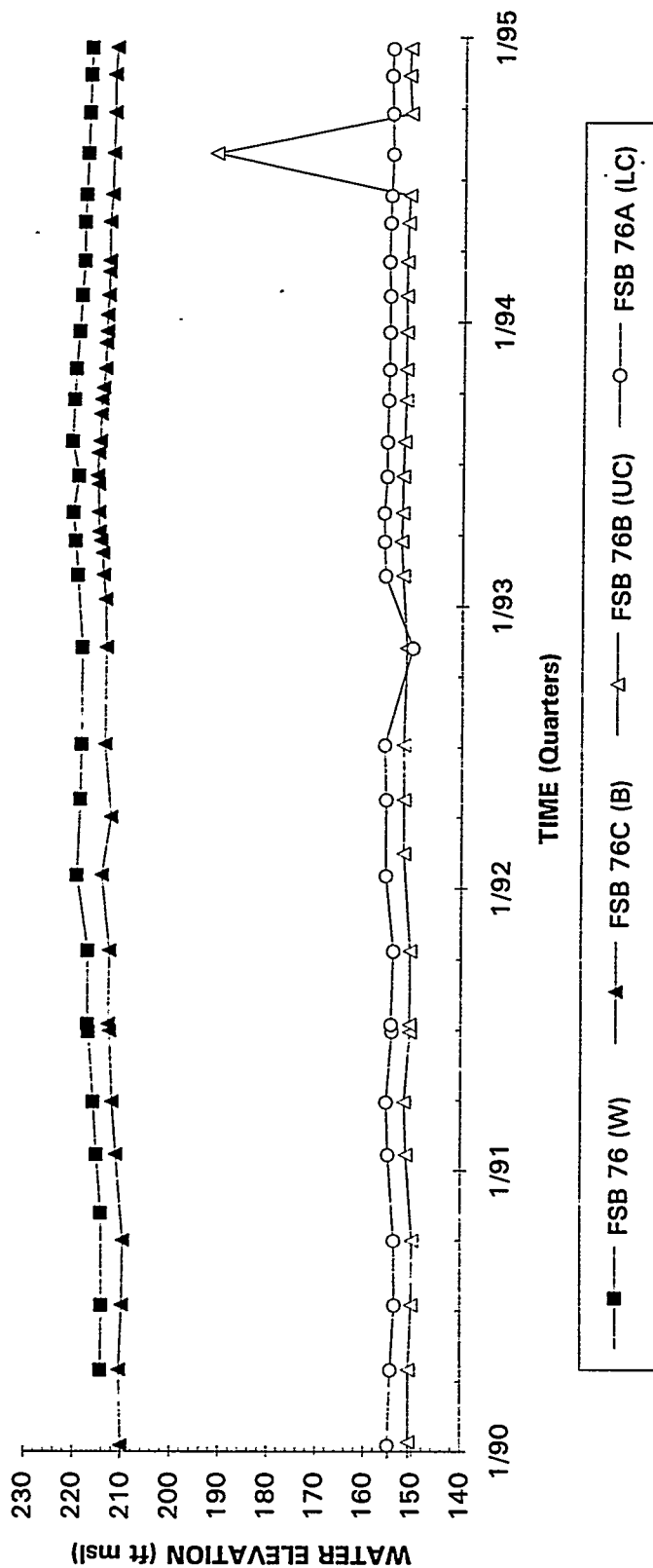
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Appendix G

Hydrographs

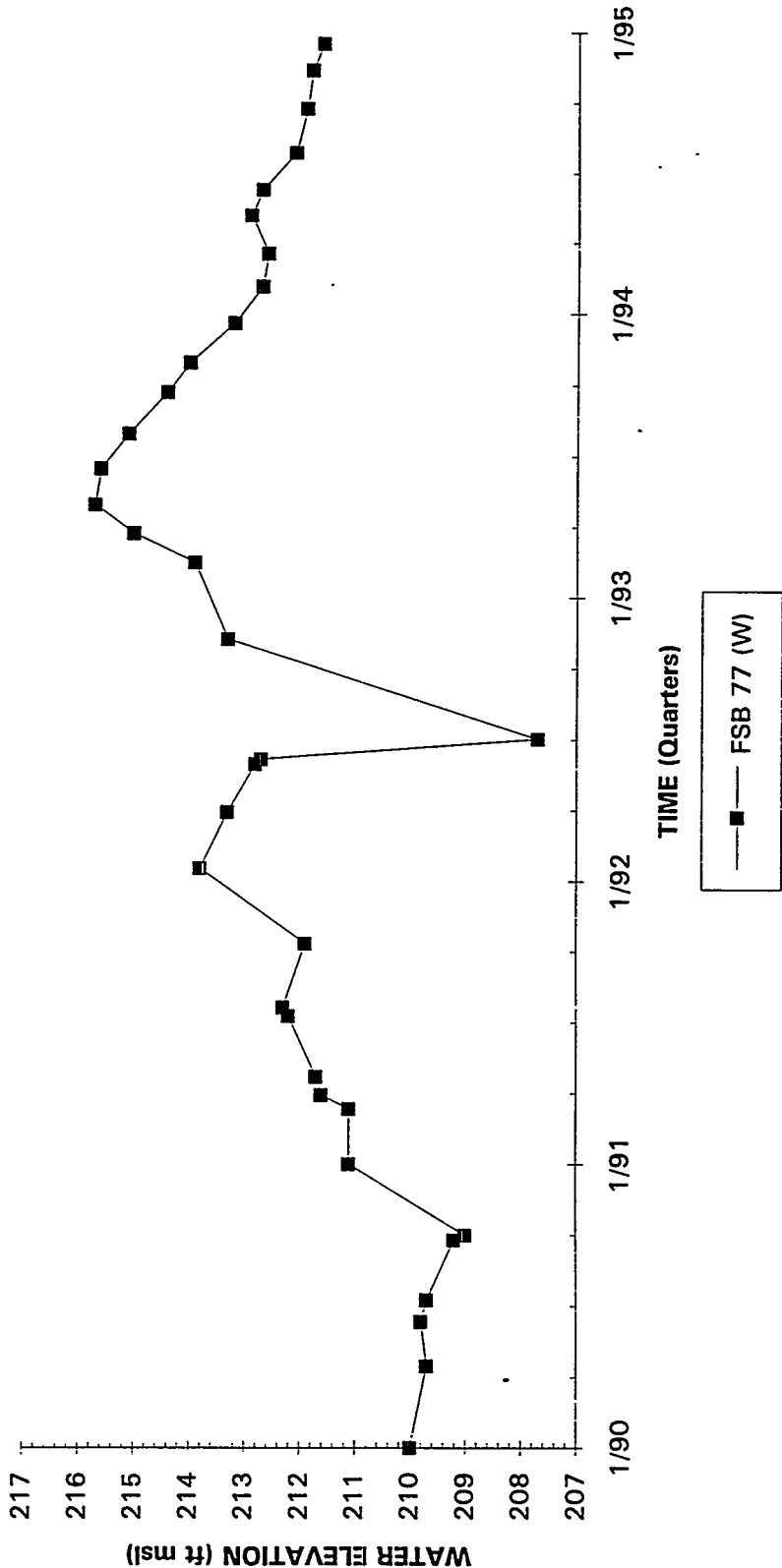
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Hydrograph Well Cluster FSB 76



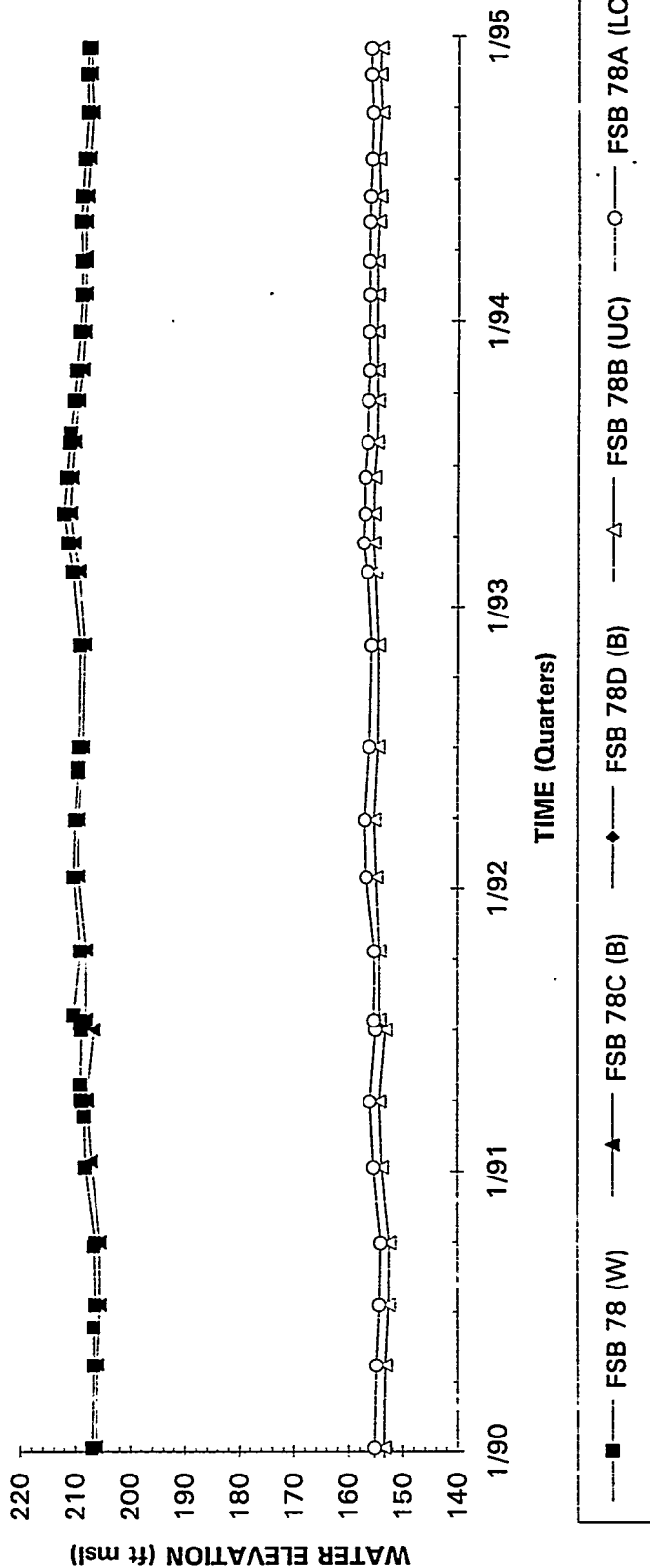
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSB 77



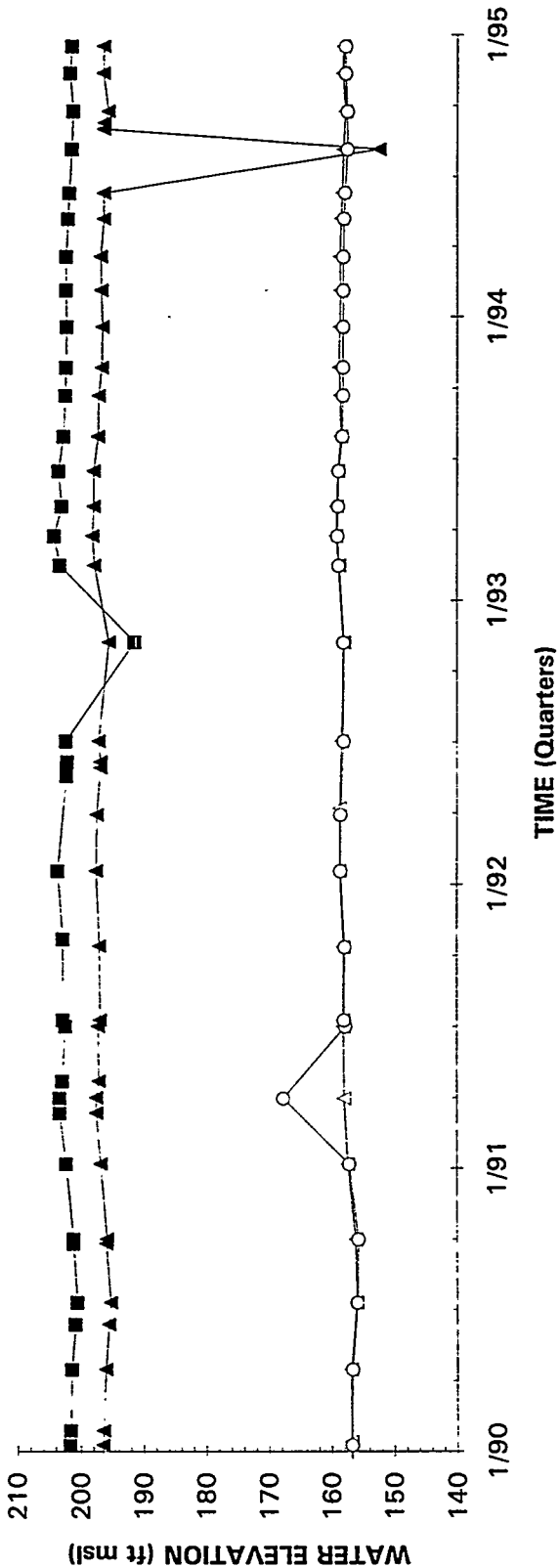
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 78



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

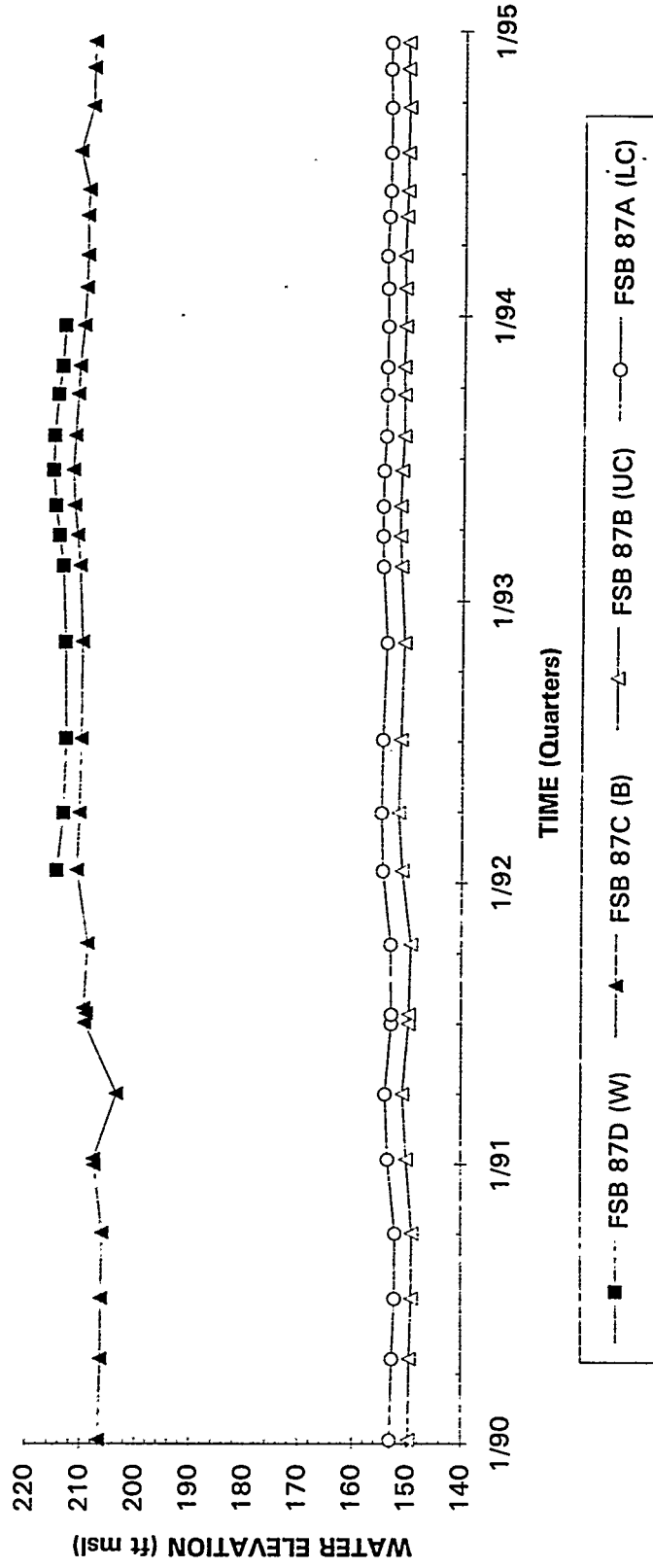
Hydrograph Well Cluster FSB 79



-- FSB 79 (W) - - - FSB 79C (B) - - - FSB 79D (B) - - - FSB 79B (UC) - - - FSB 79A (LC)

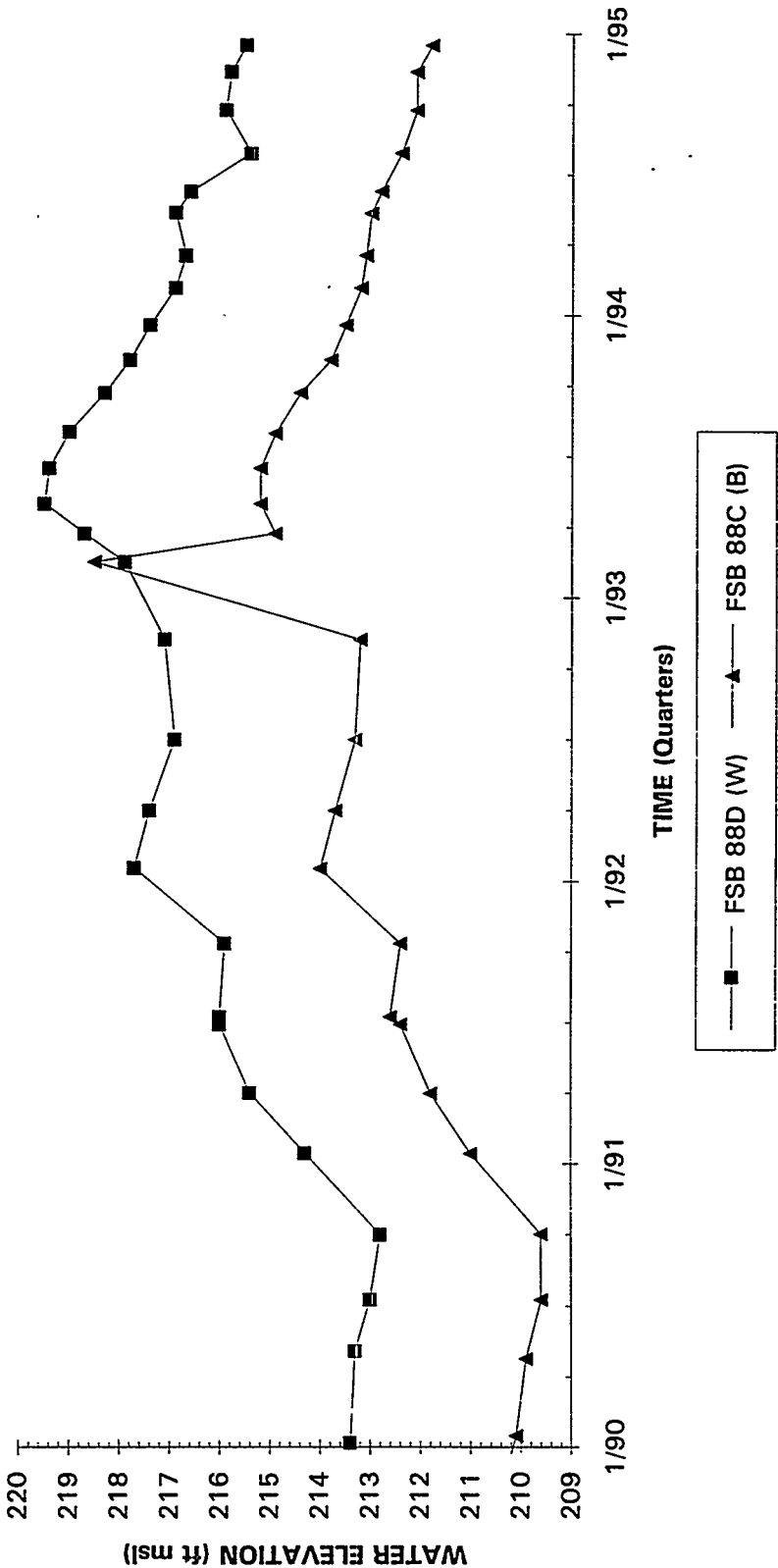
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 87



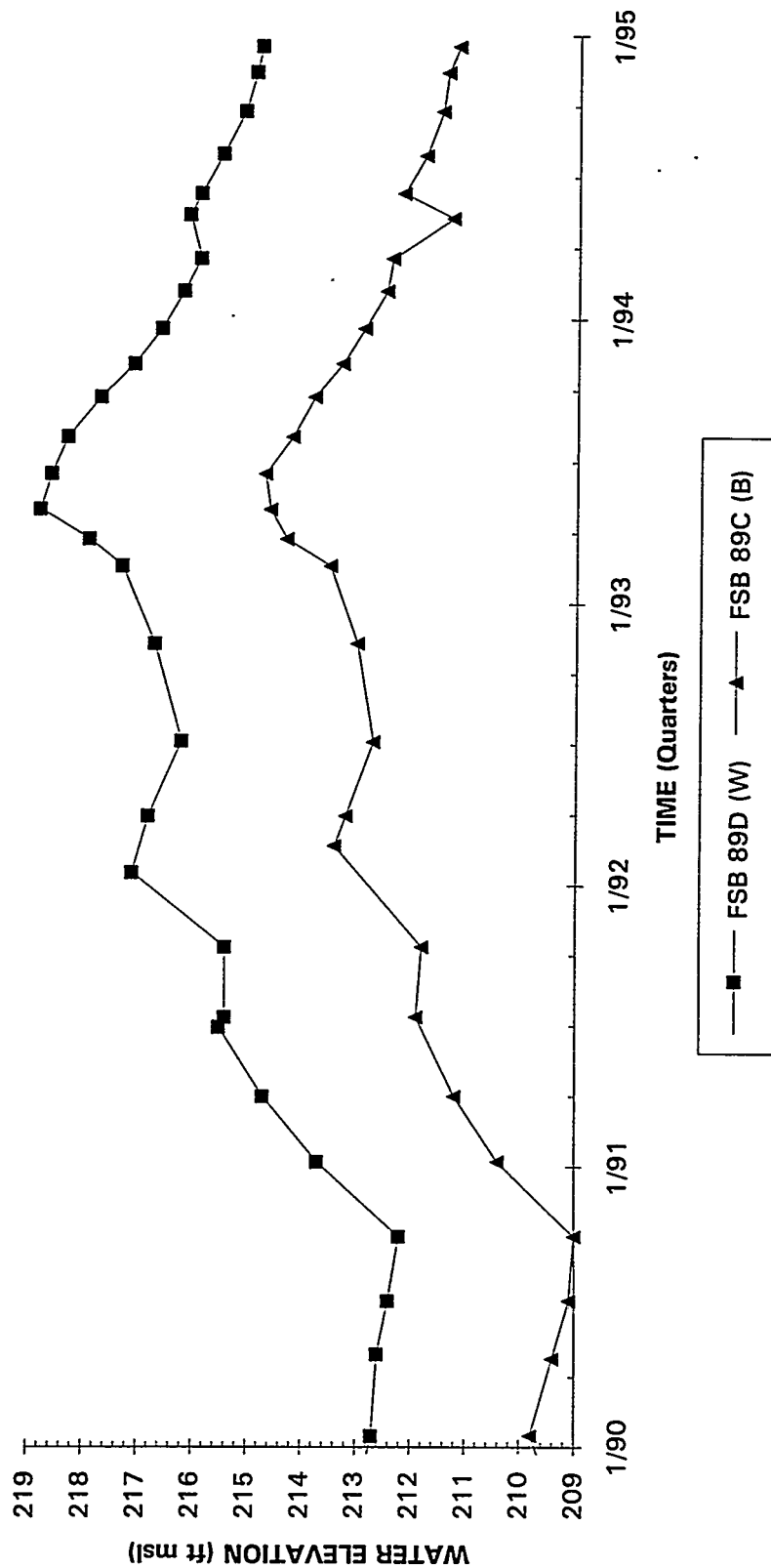
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 88



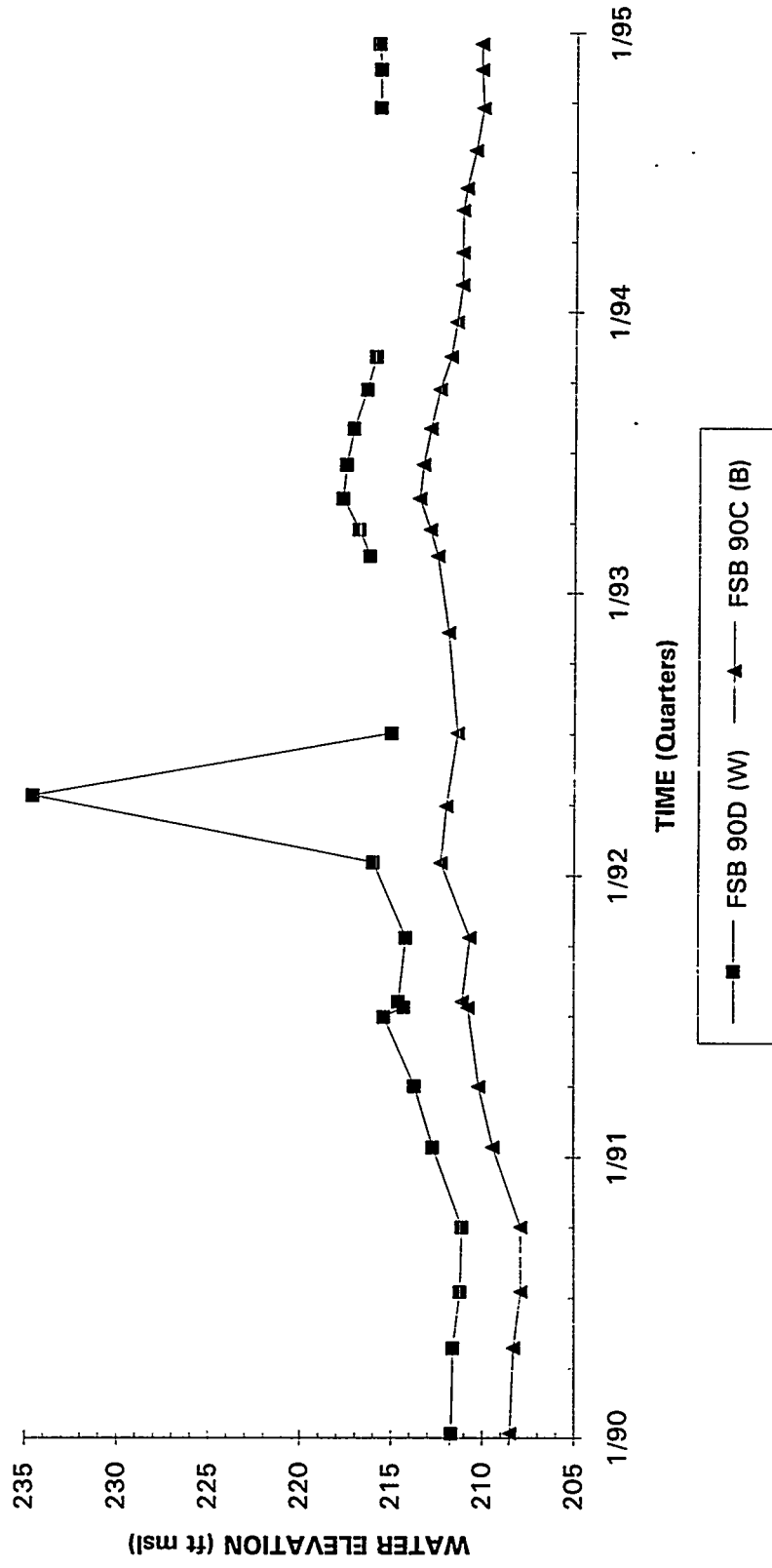
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 89



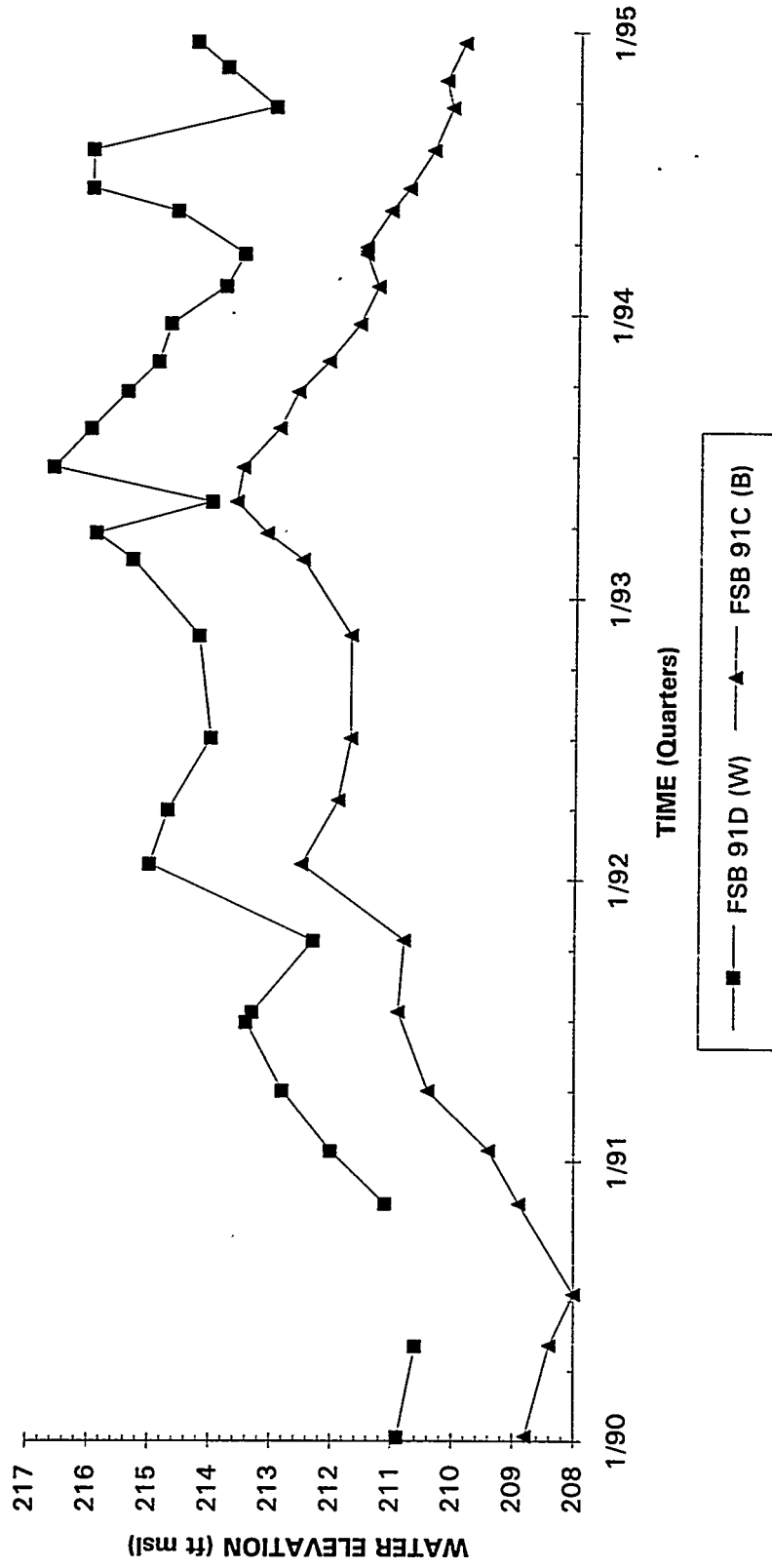
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 90



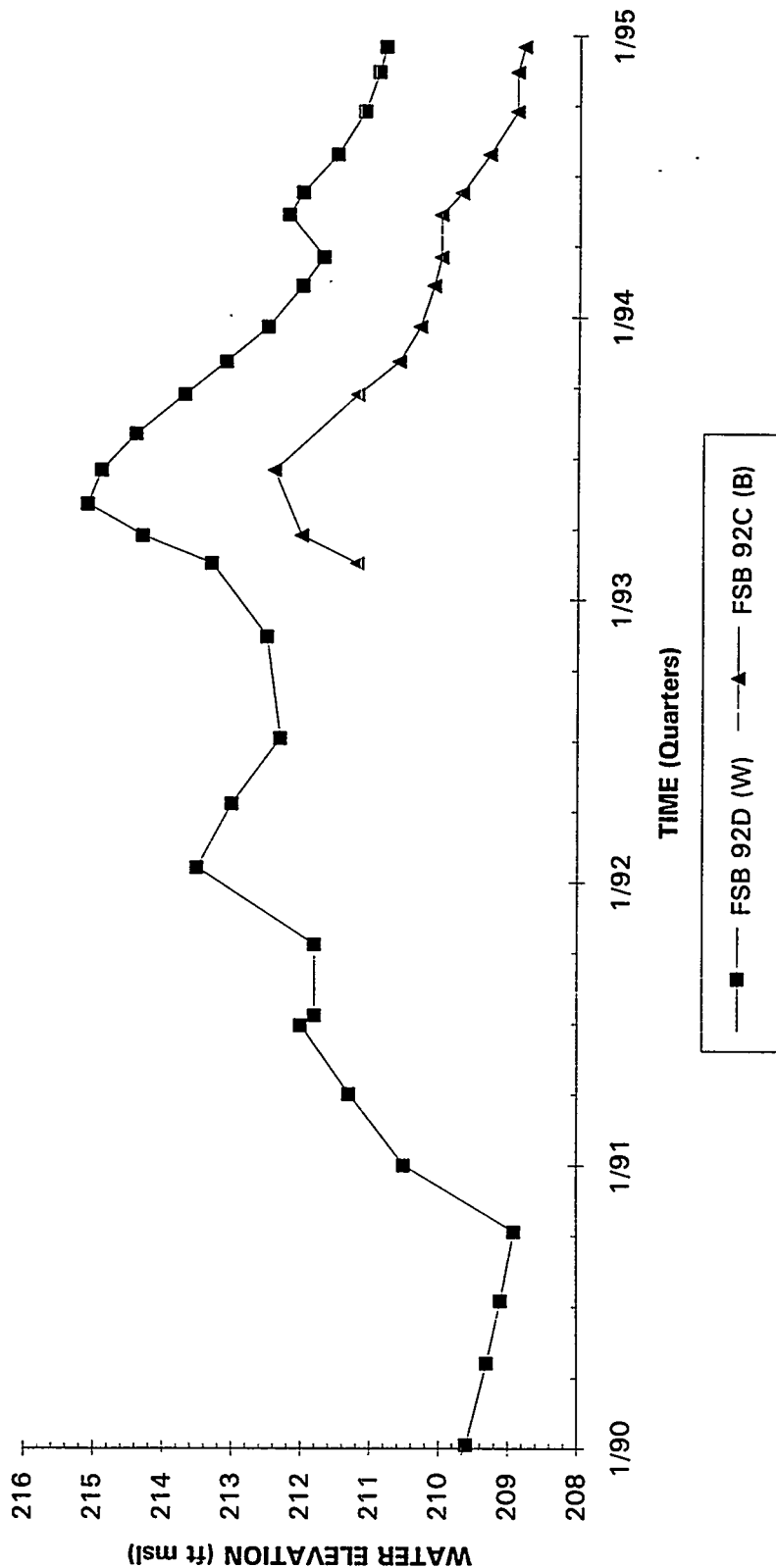
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 91



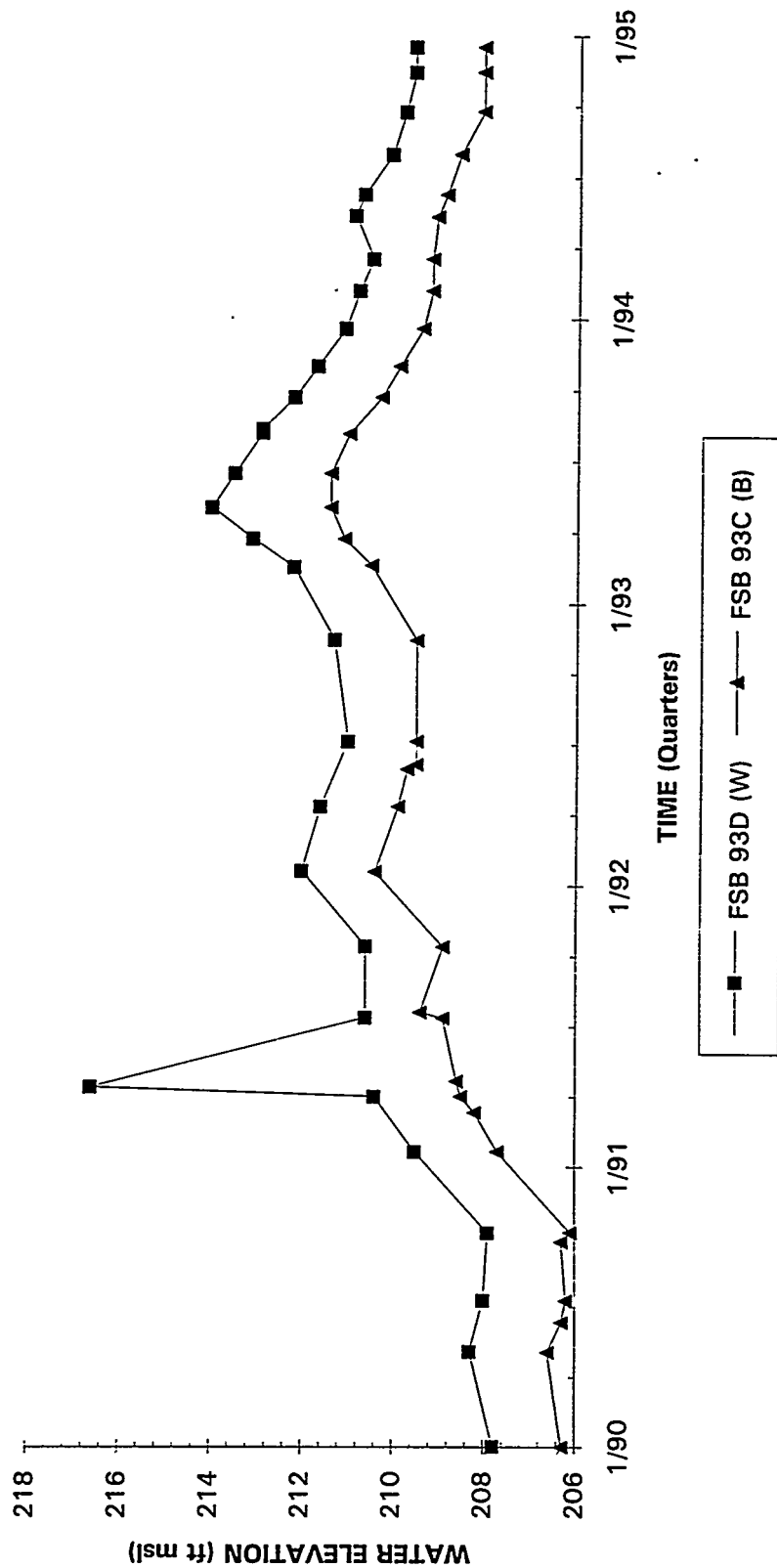
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 92



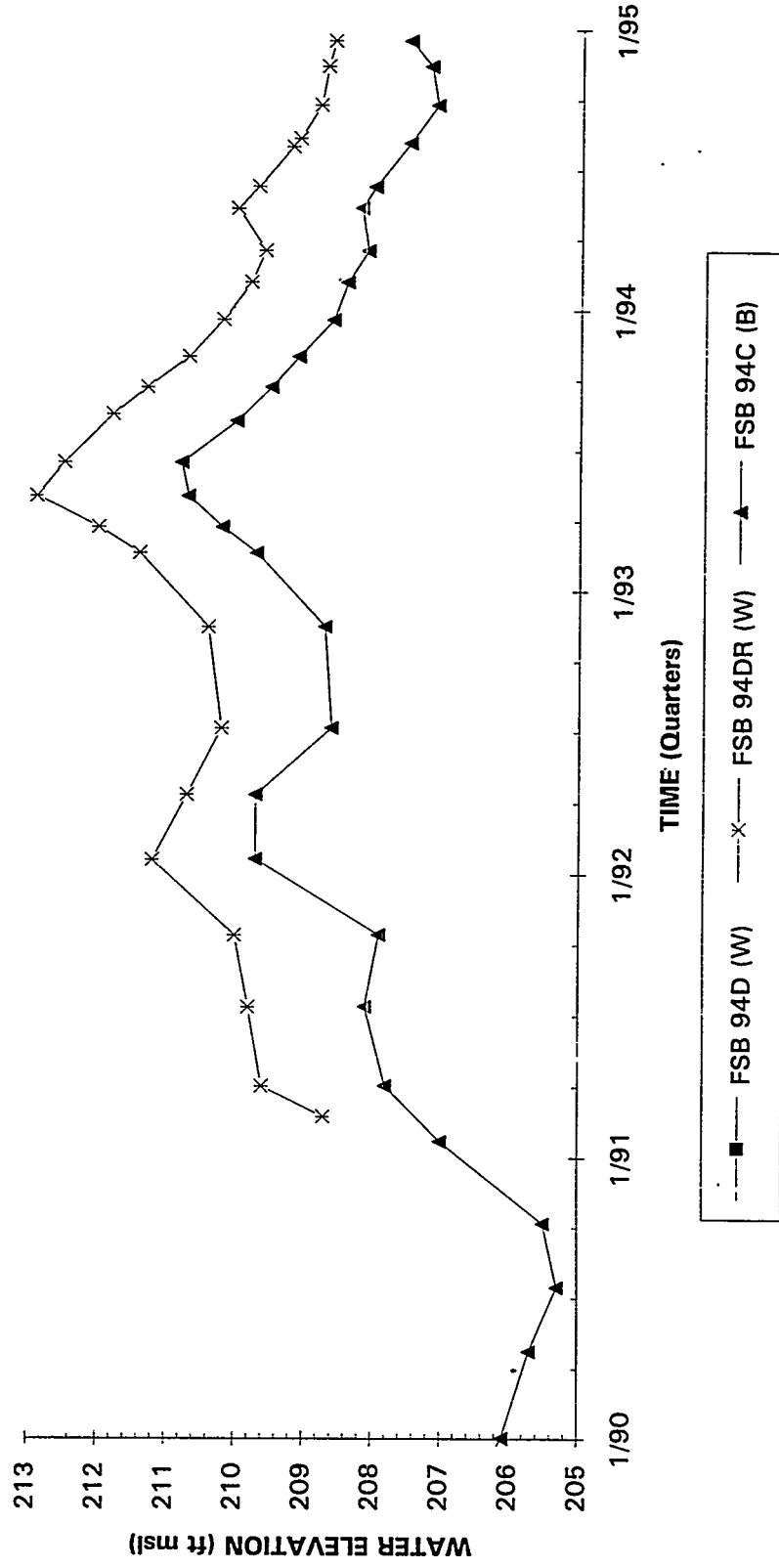
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 93



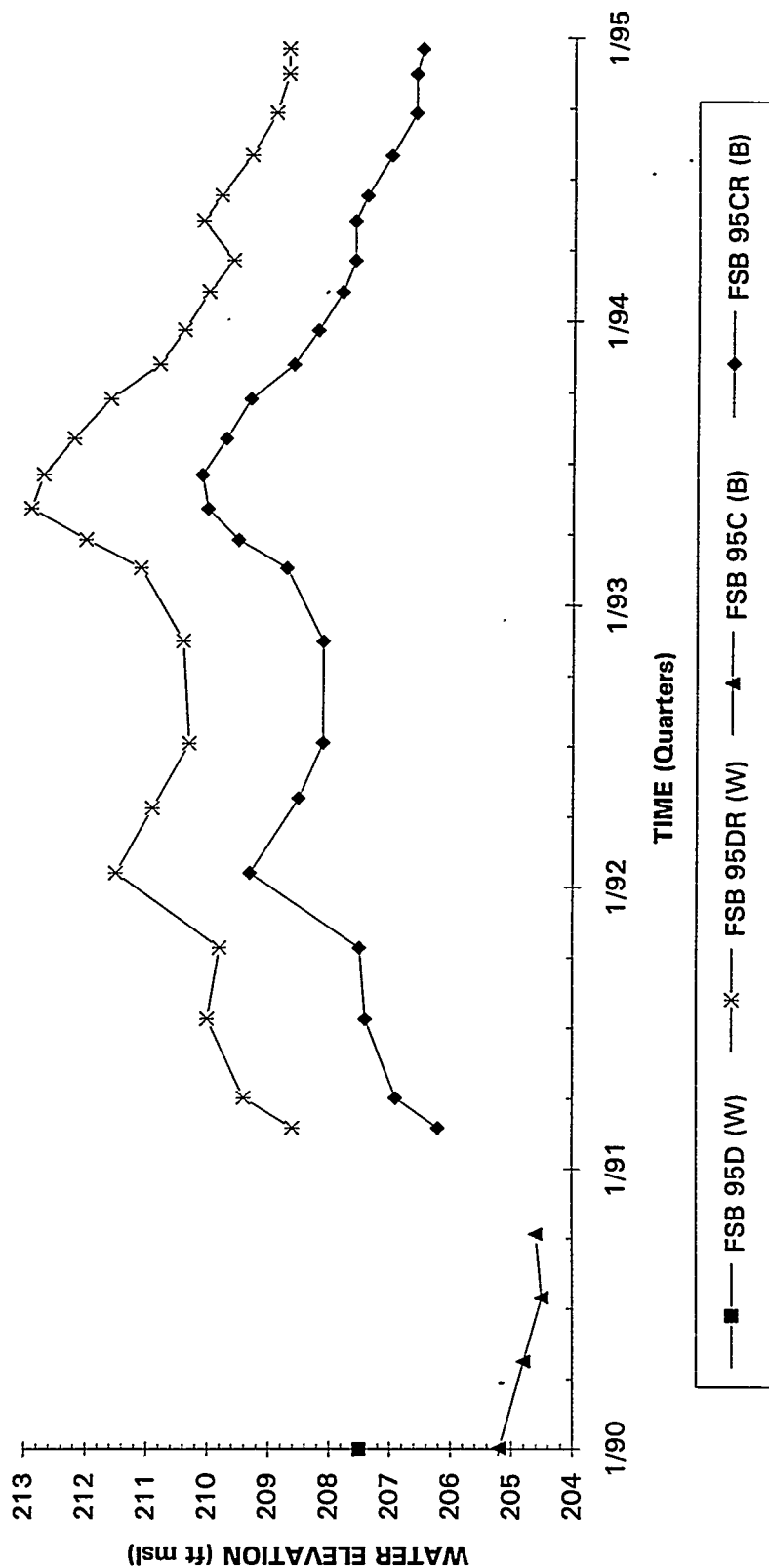
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 94



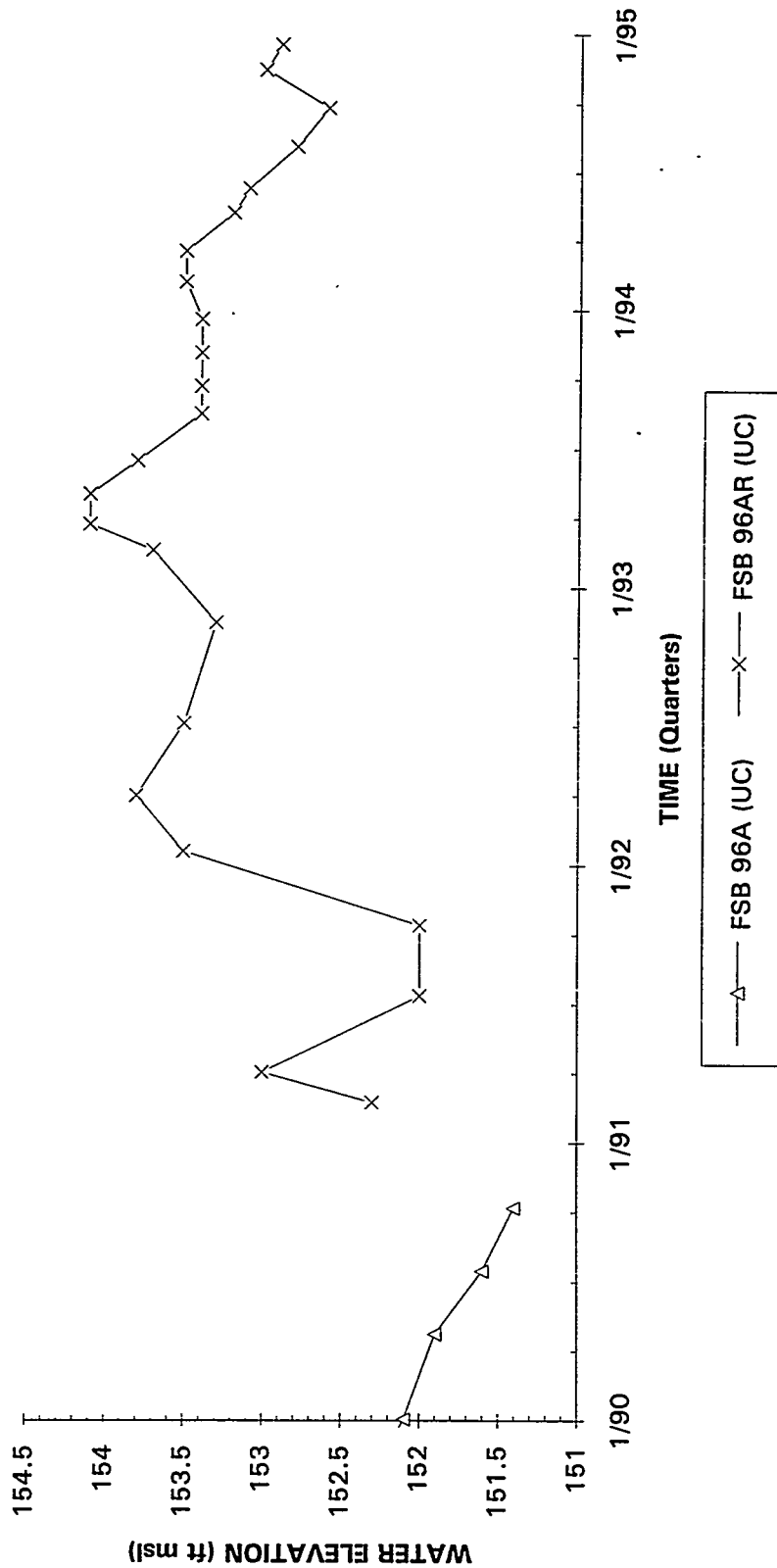
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 95



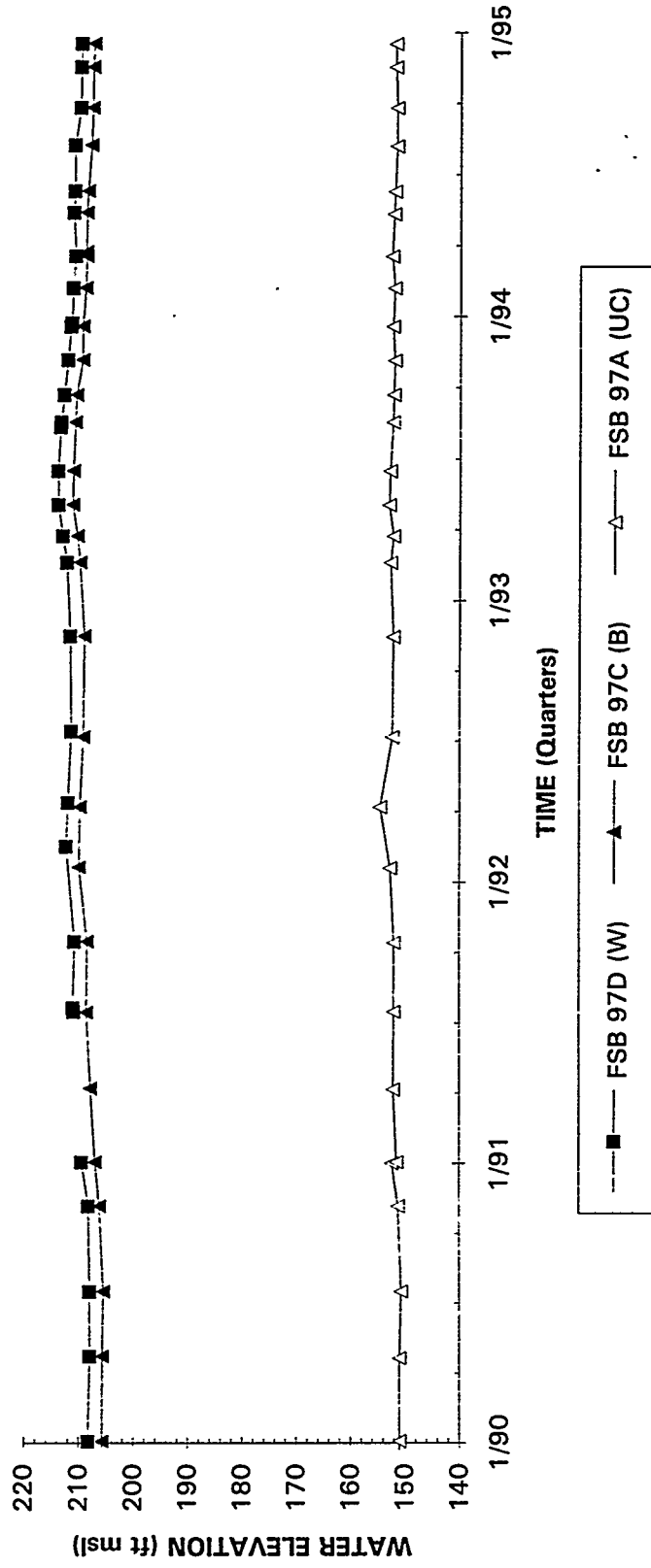
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 96



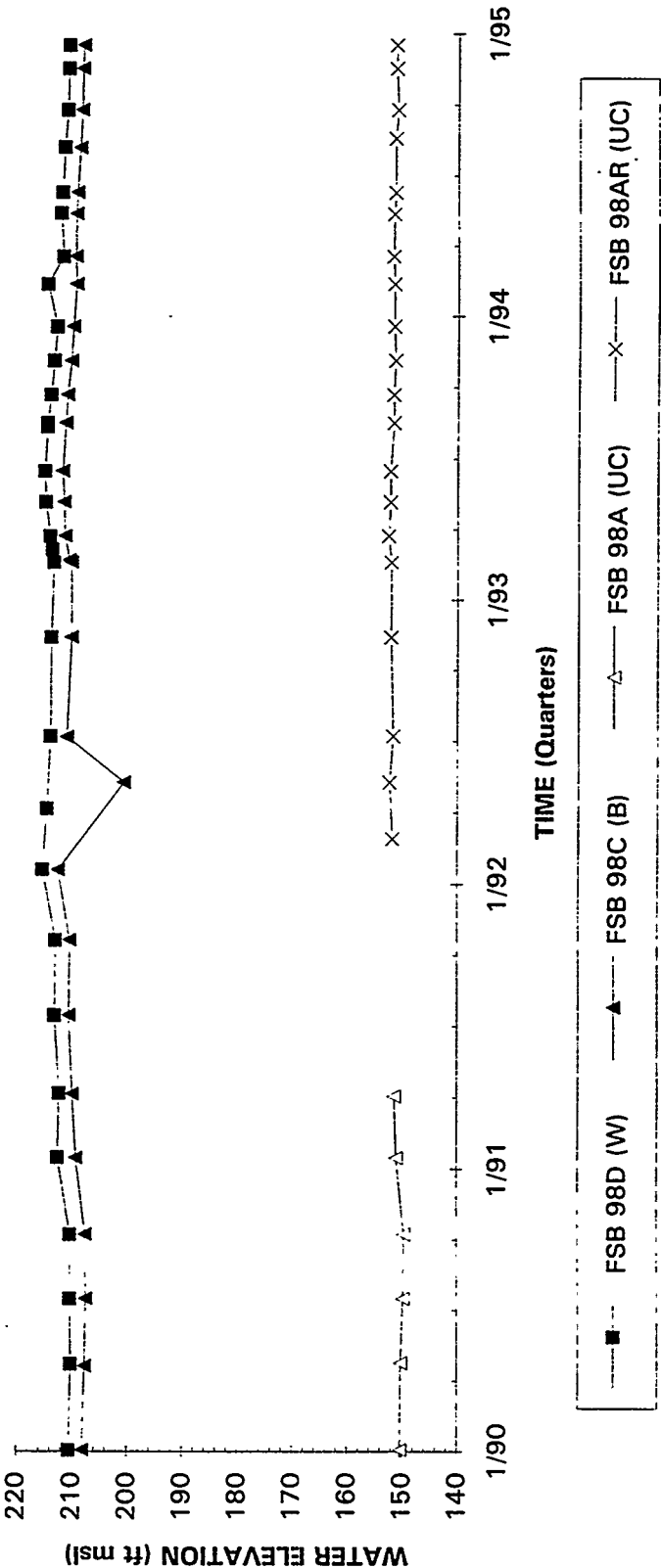
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 97



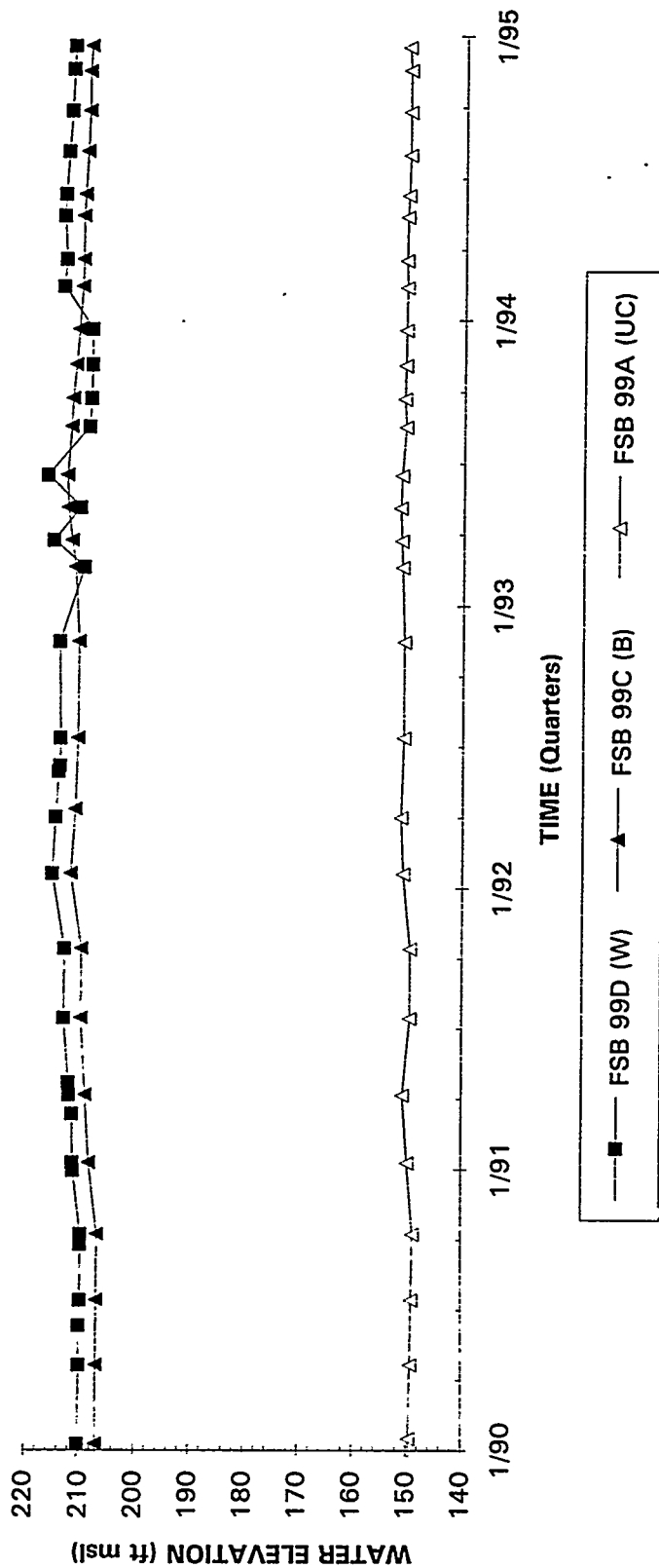
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB 98



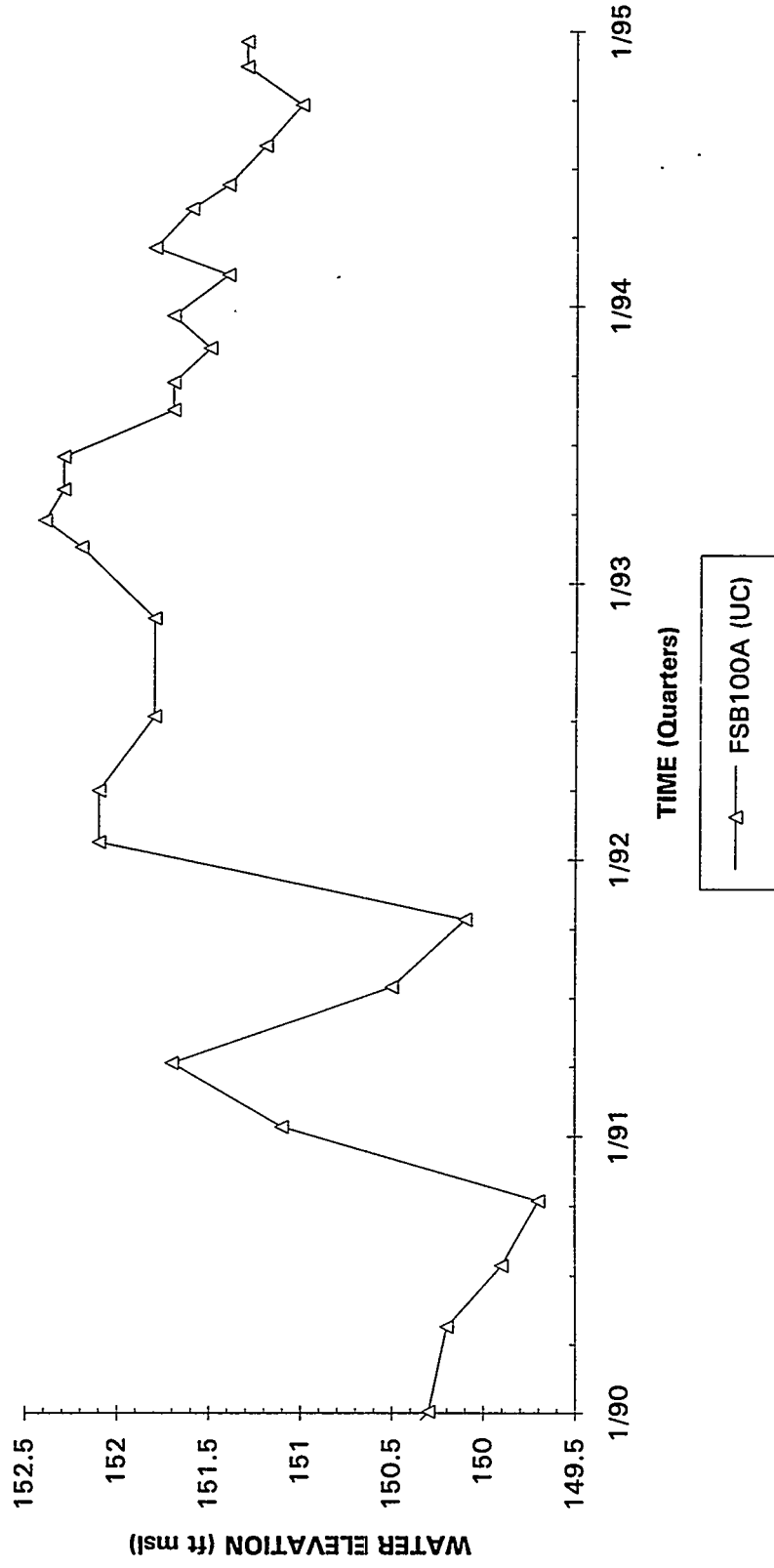
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 99



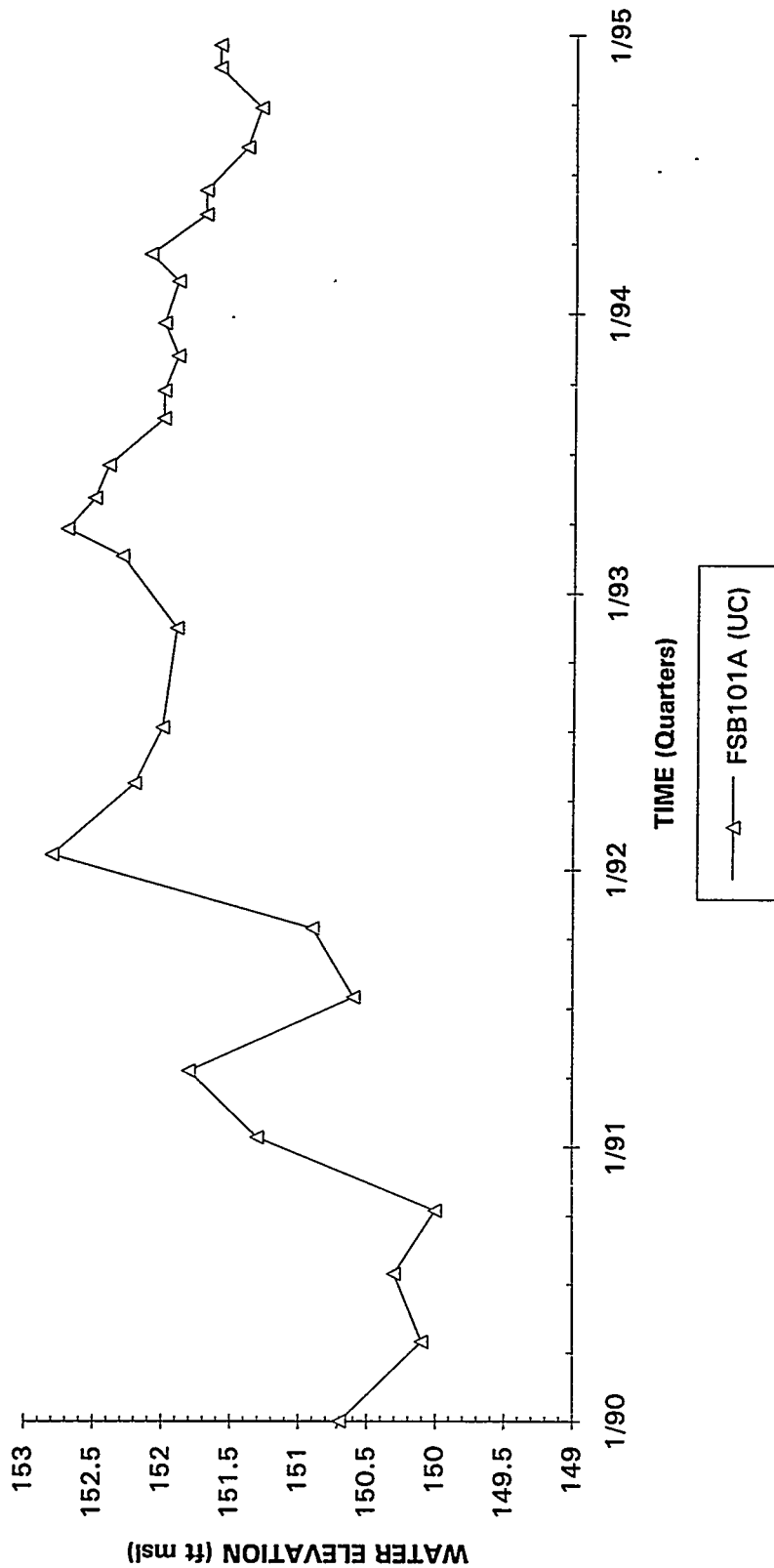
Note: W=Water Table (IIB1); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB100A



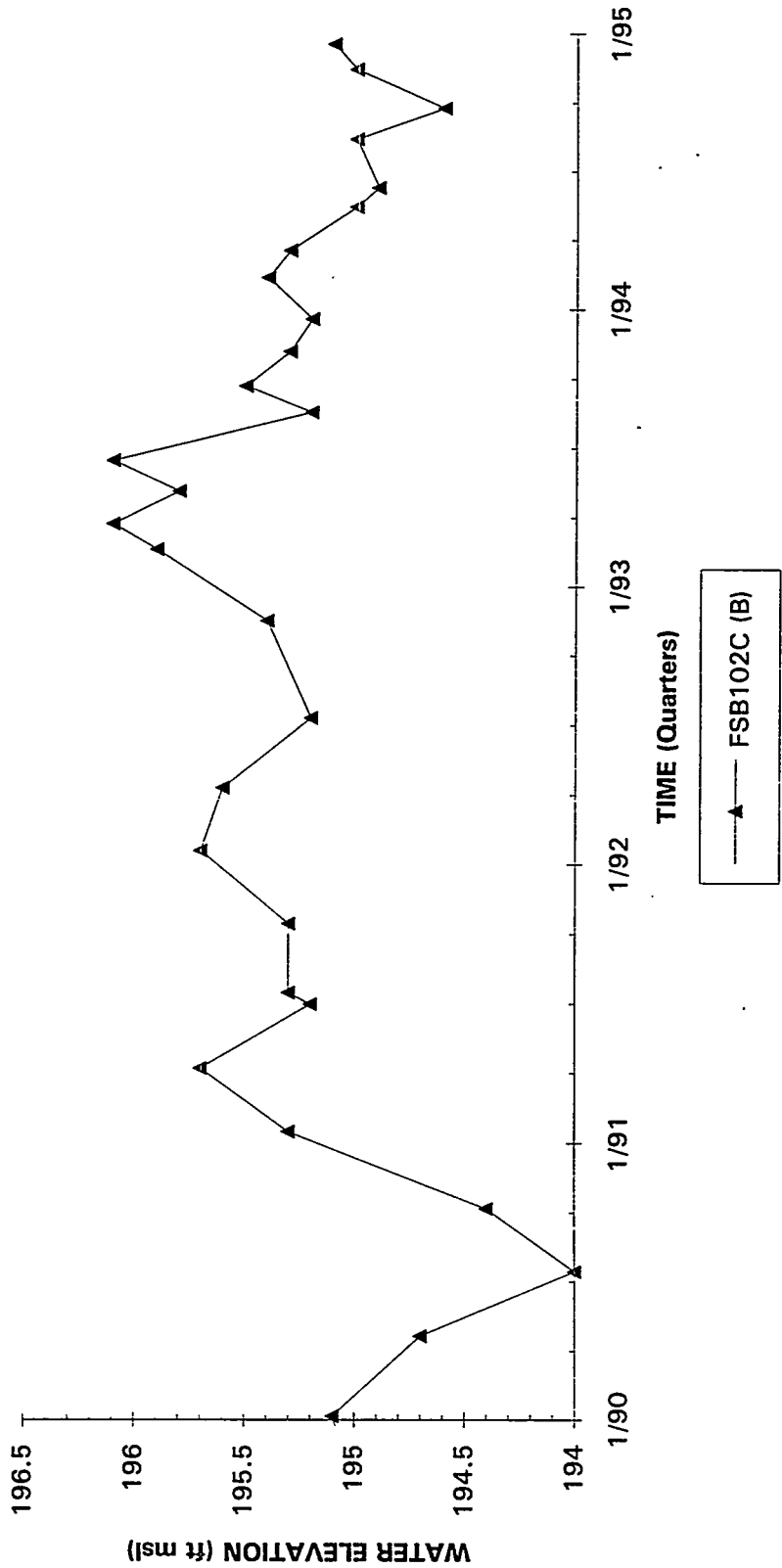
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB101A



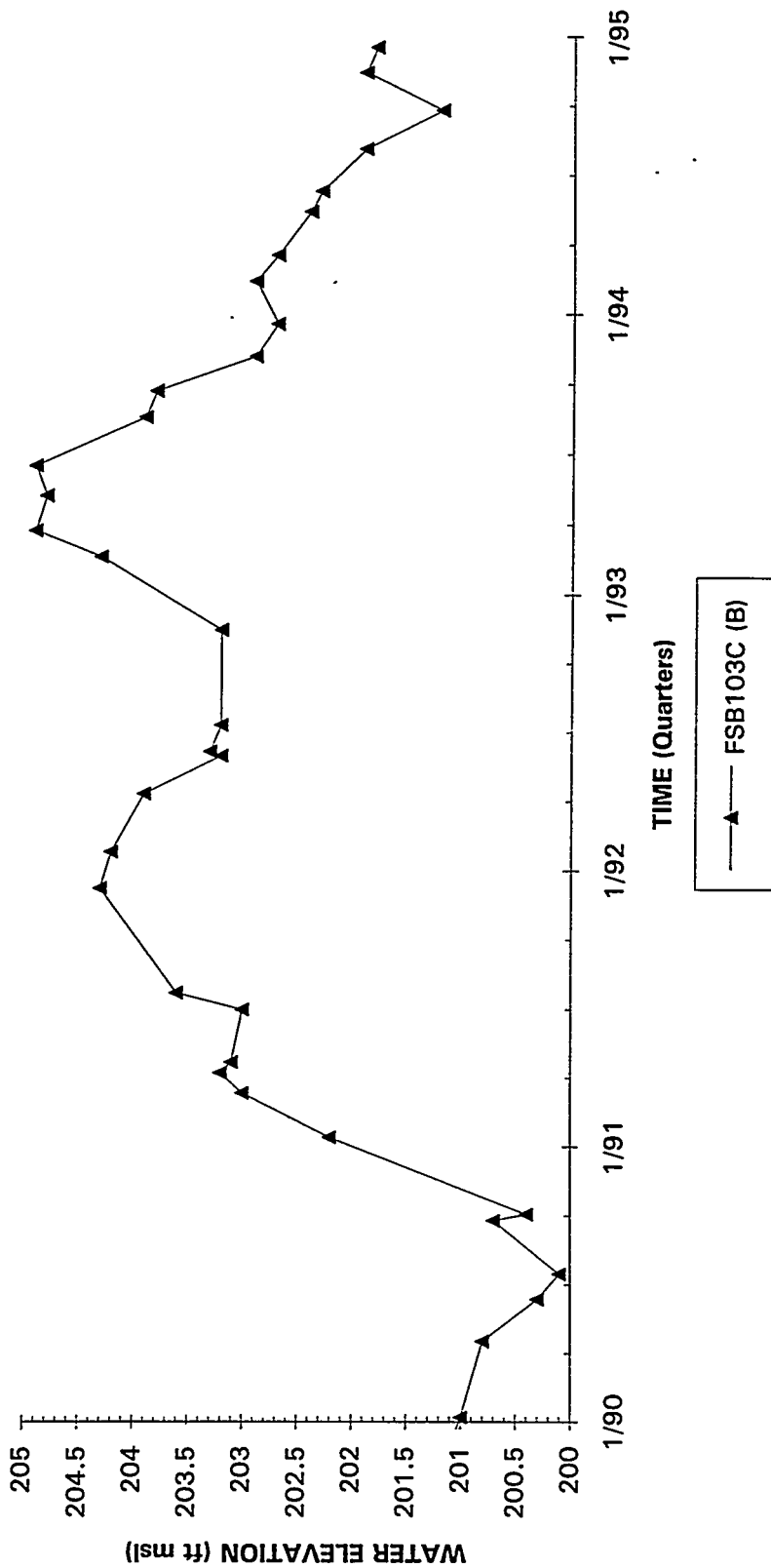
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSB102C



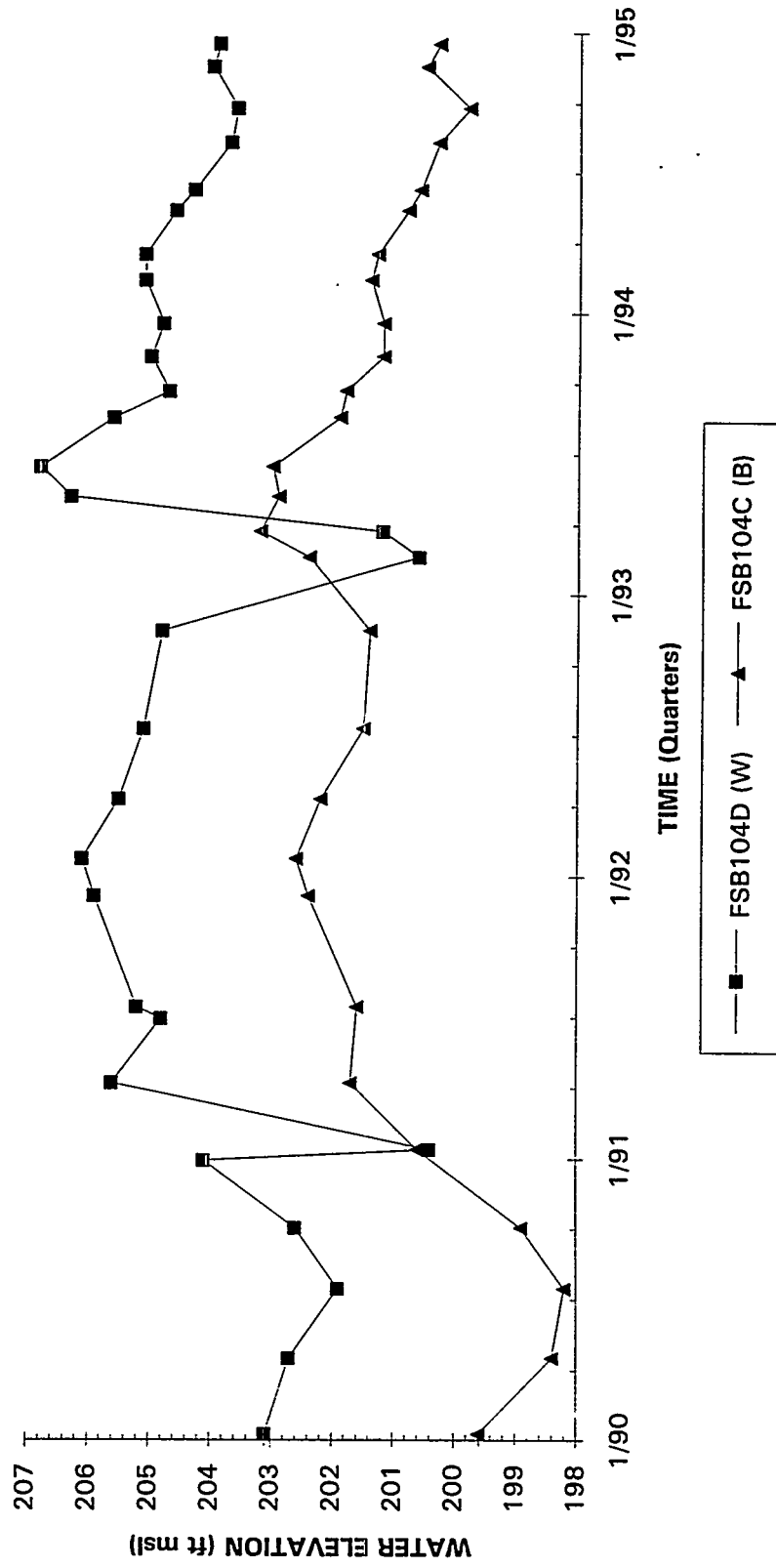
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB103C



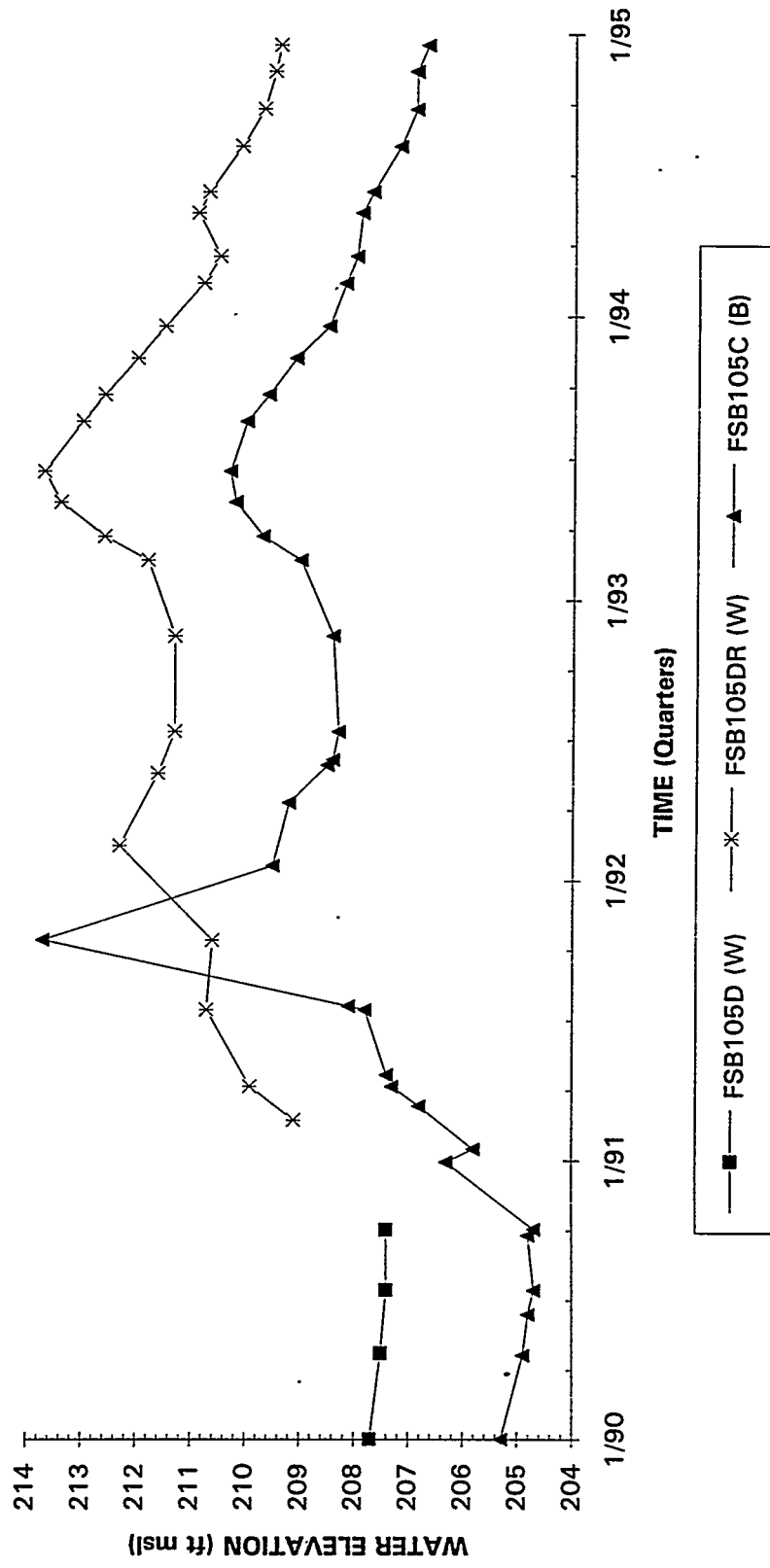
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB104



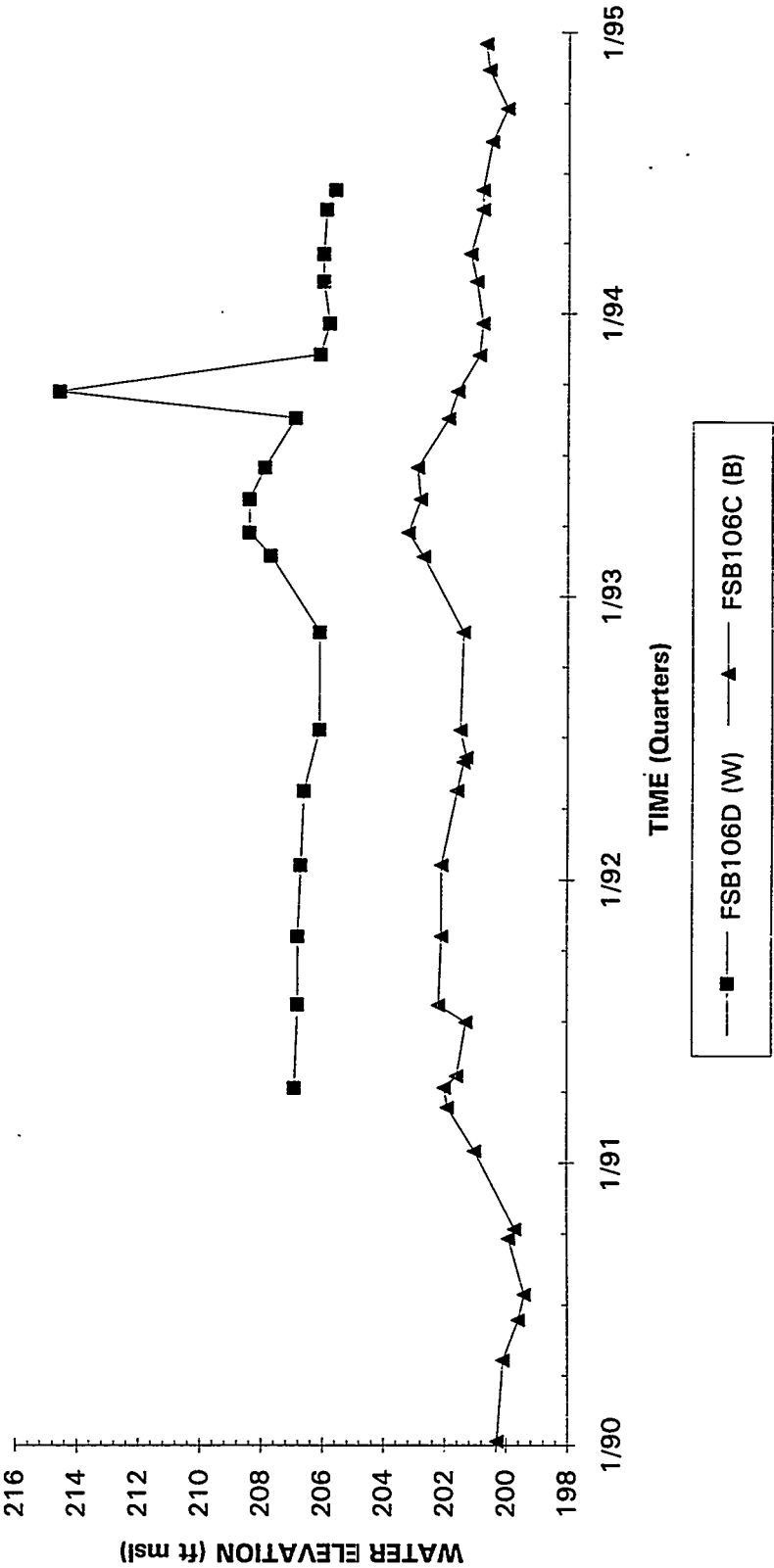
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB105



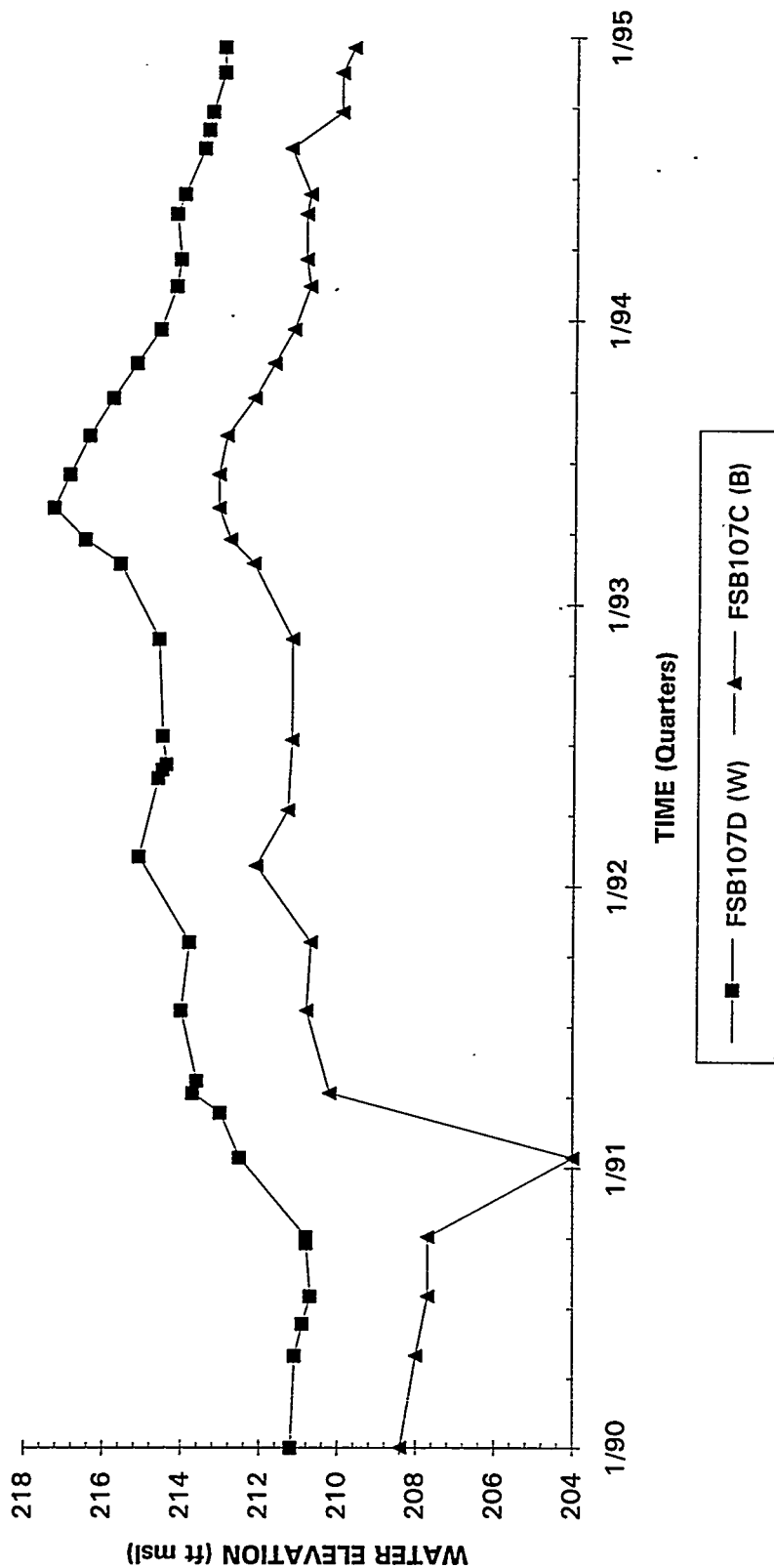
Note: W=Water Table (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB106



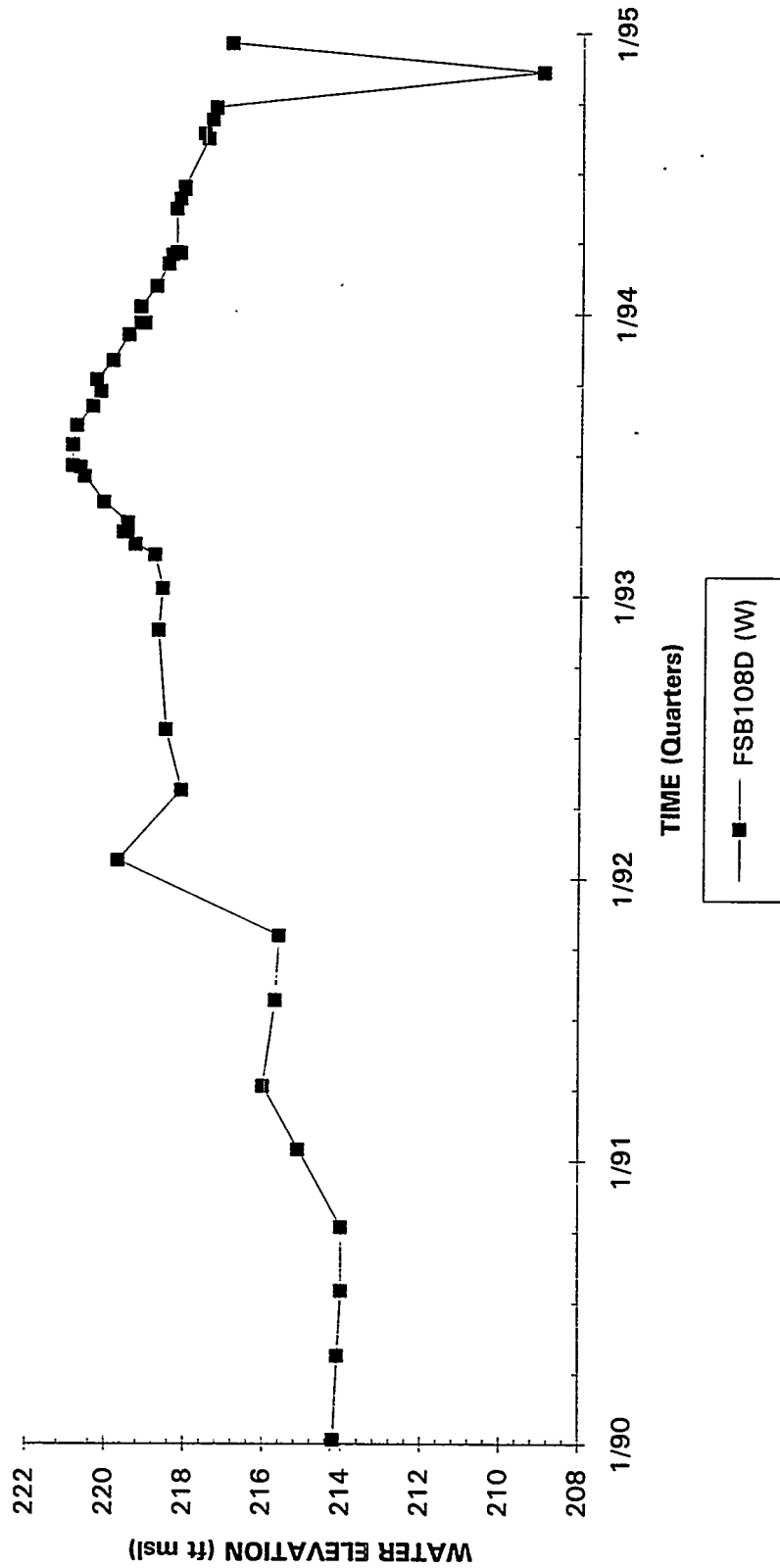
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB107



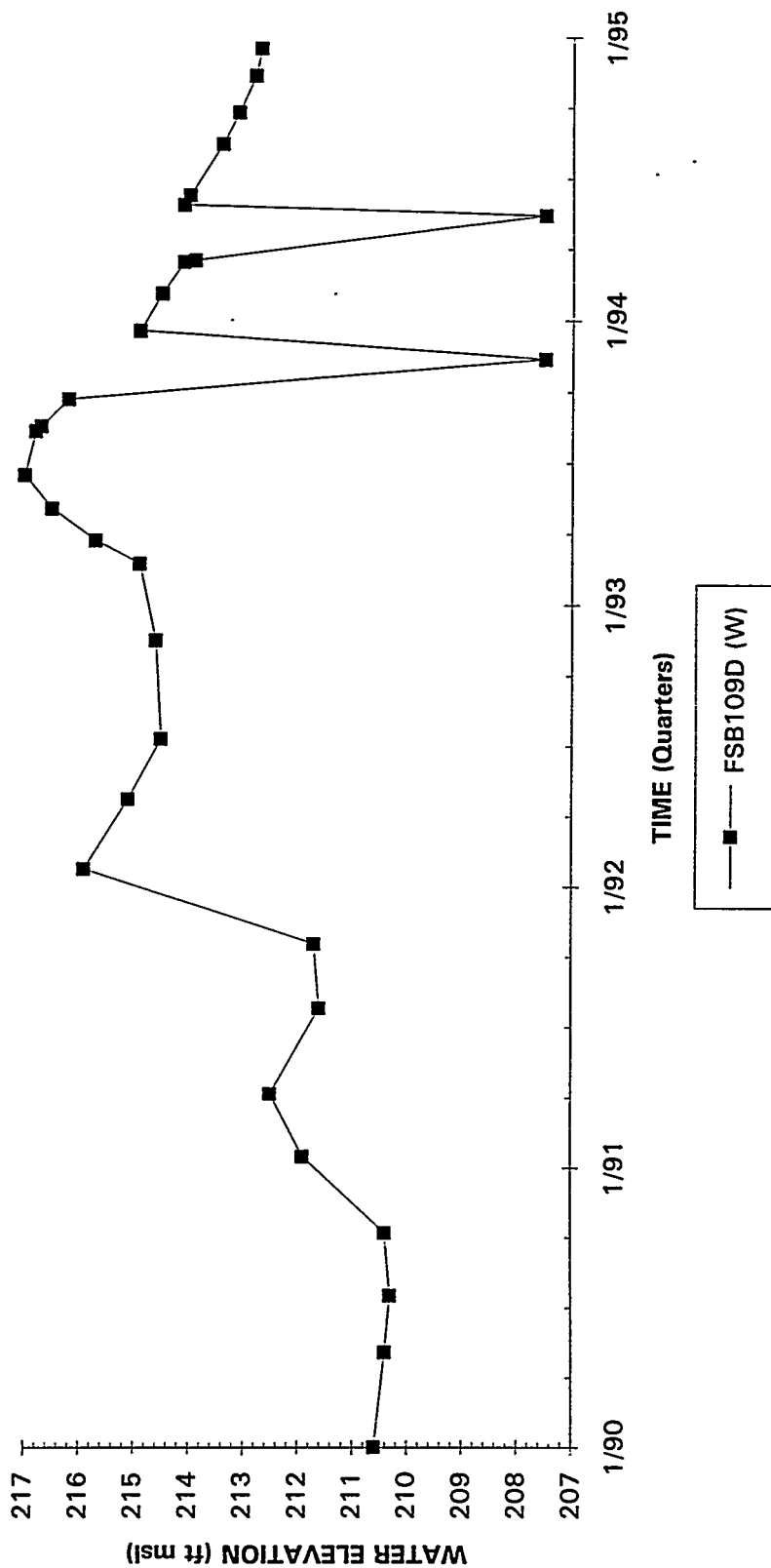
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB108D



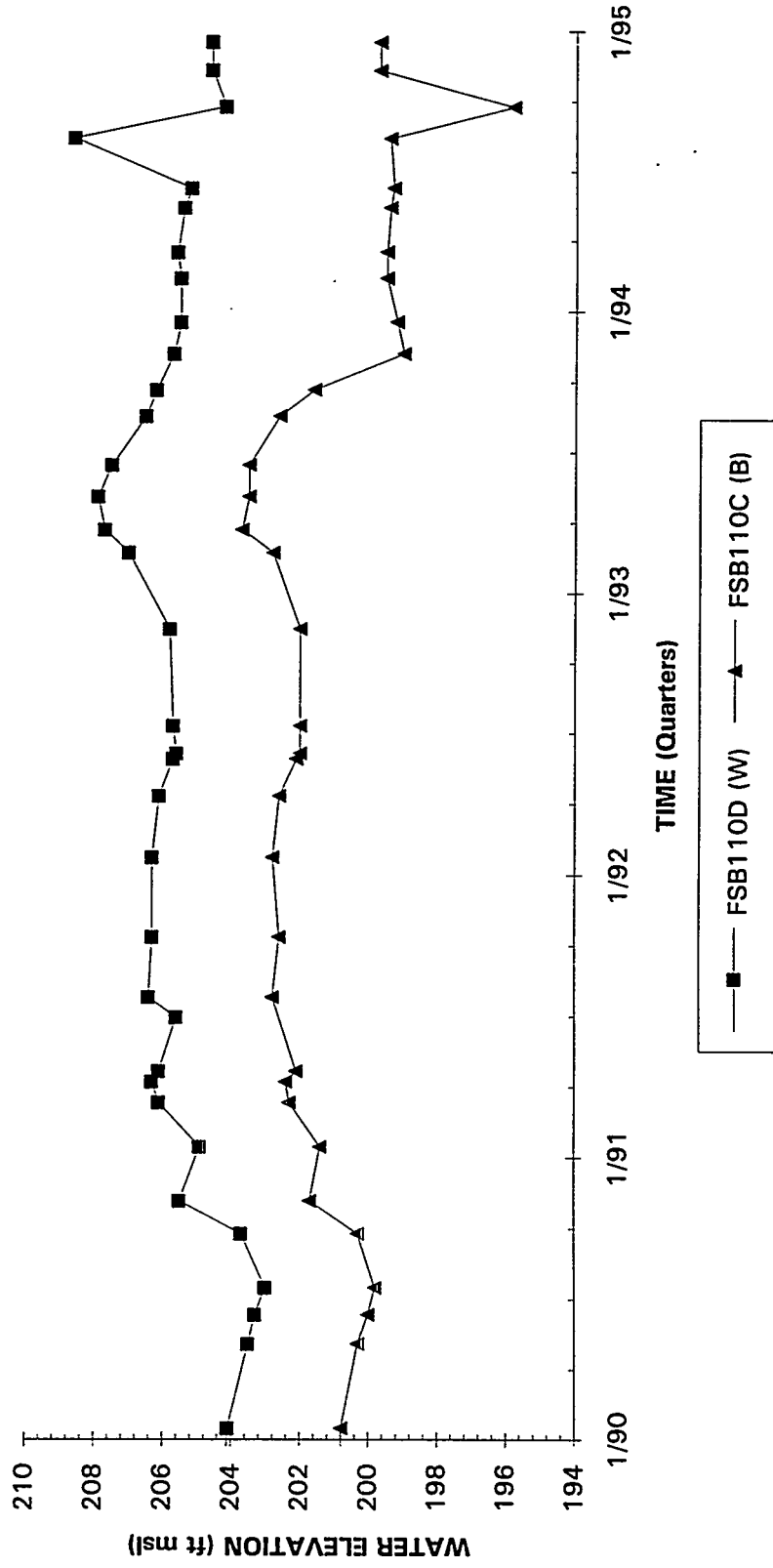
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB109D



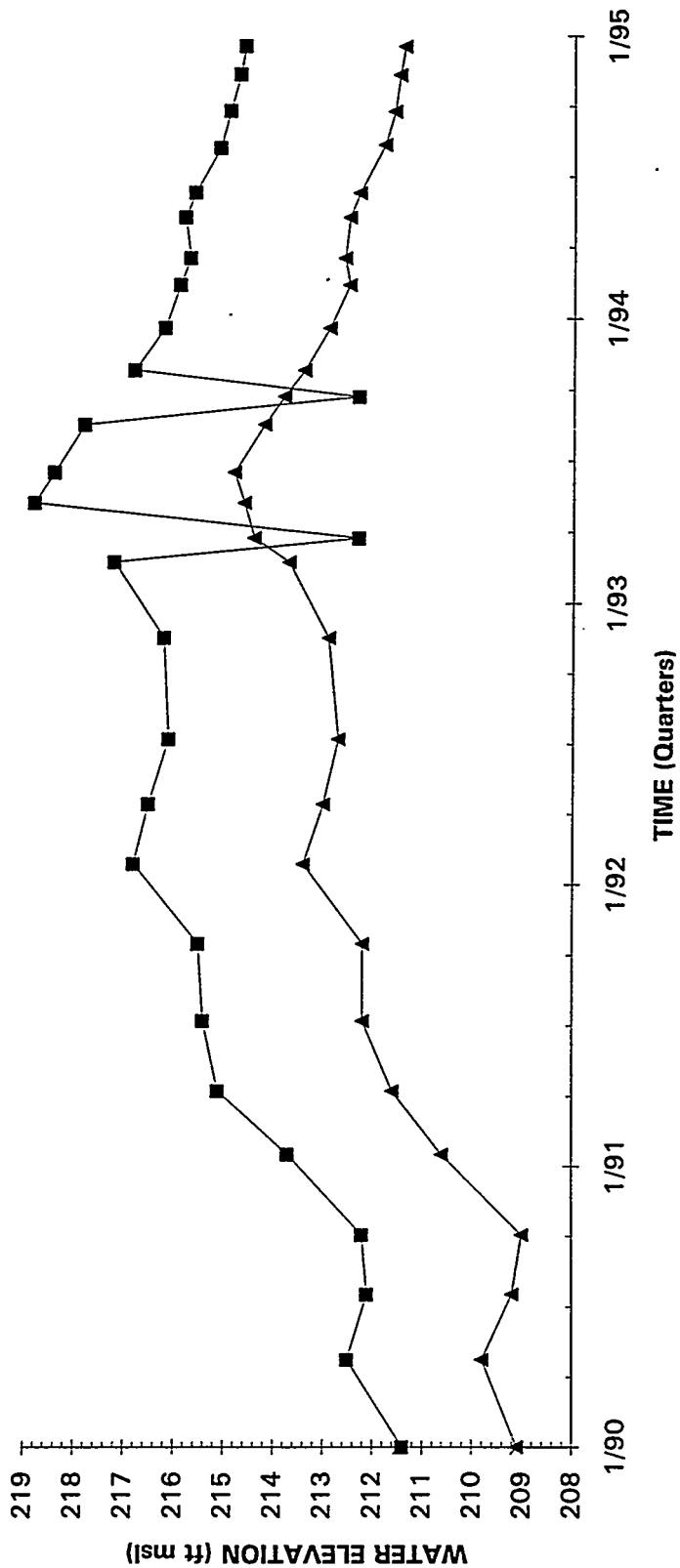
Note: W=Water Table (IIB1); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB110



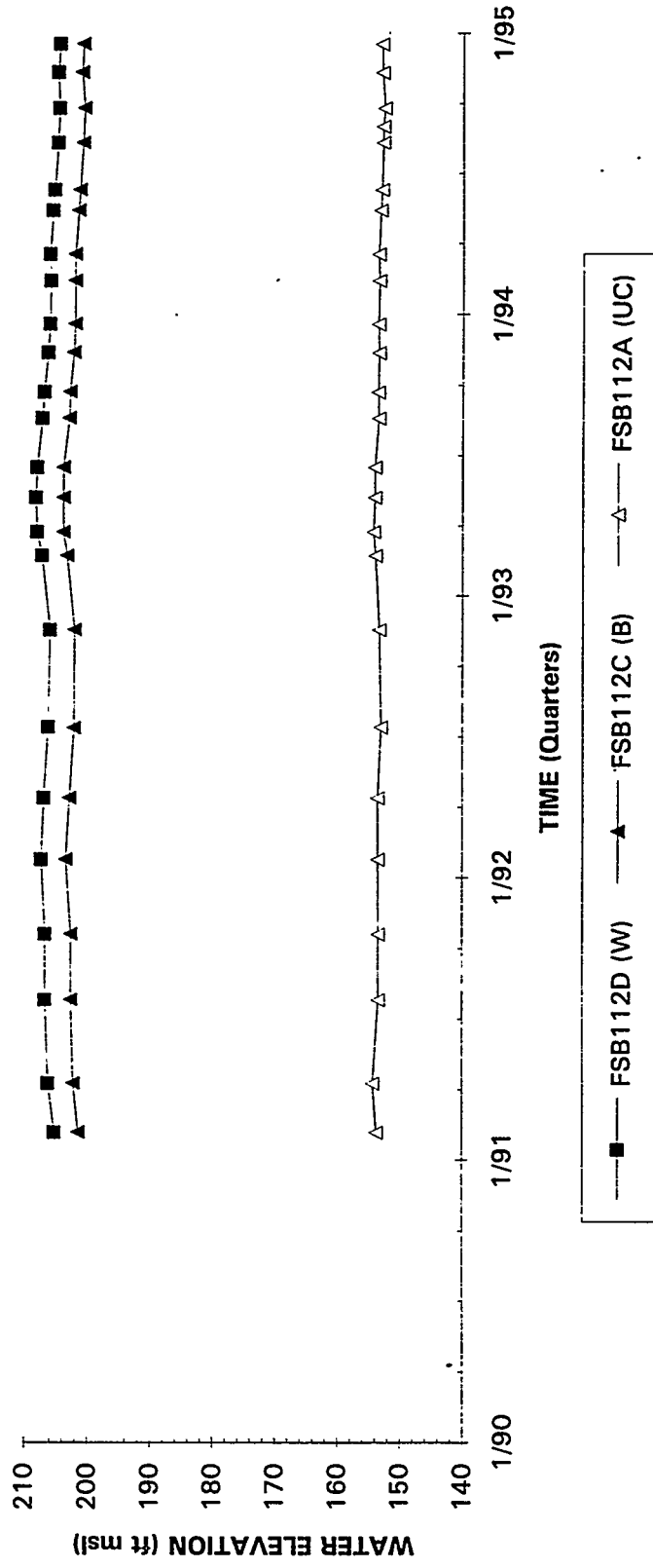
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB111



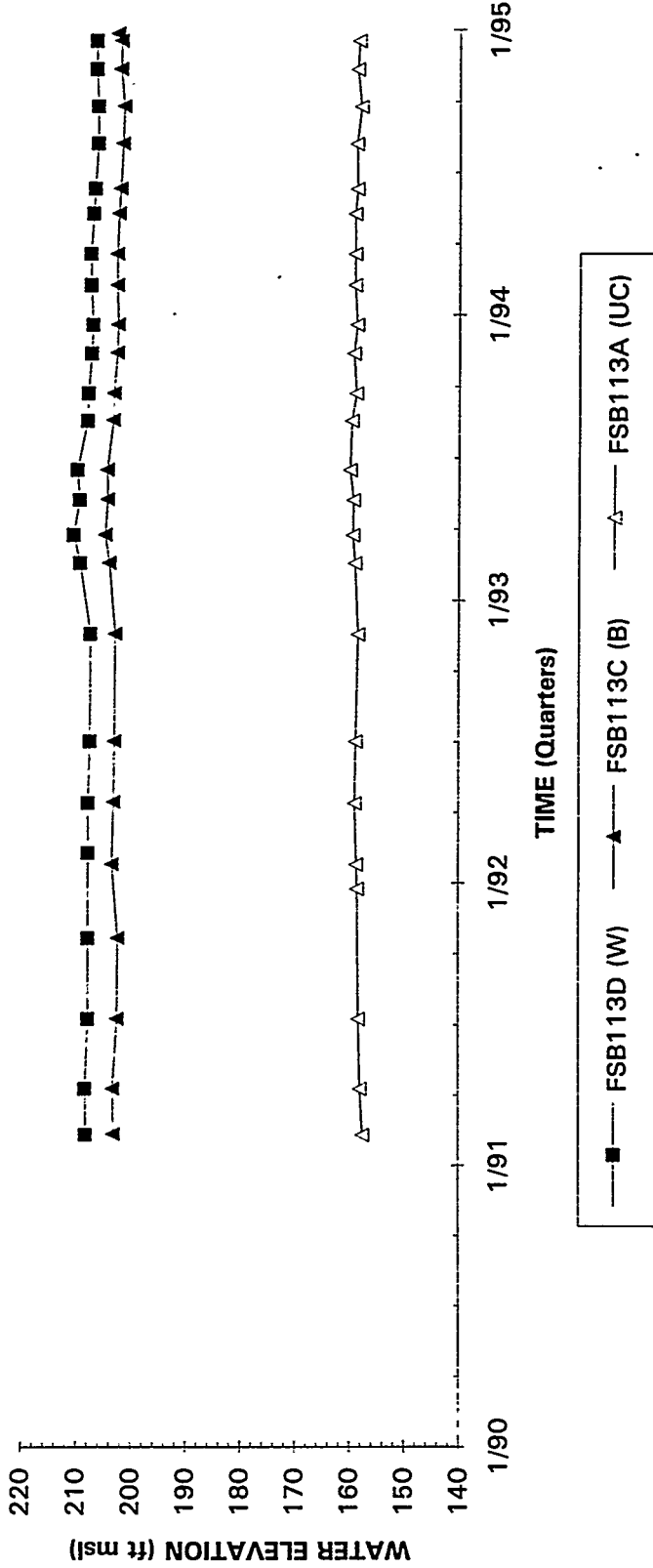
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB112



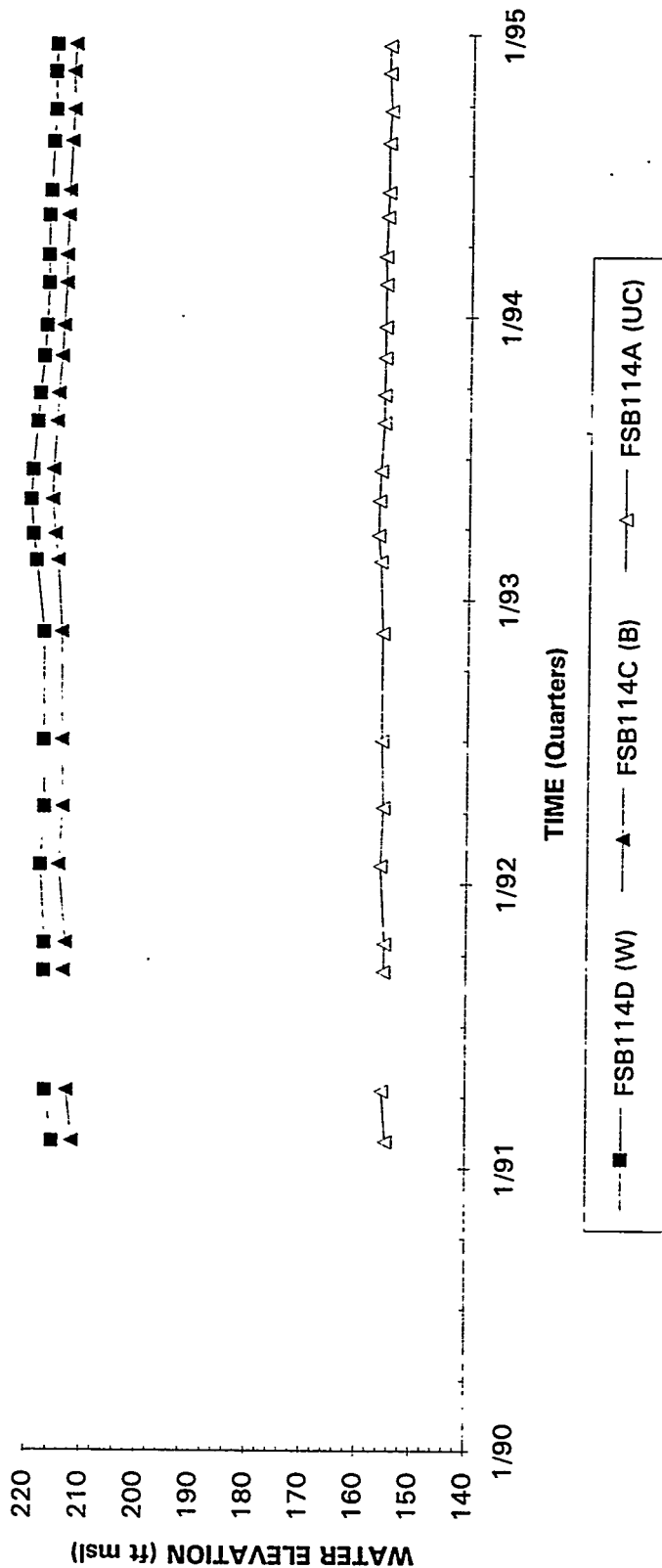
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB113



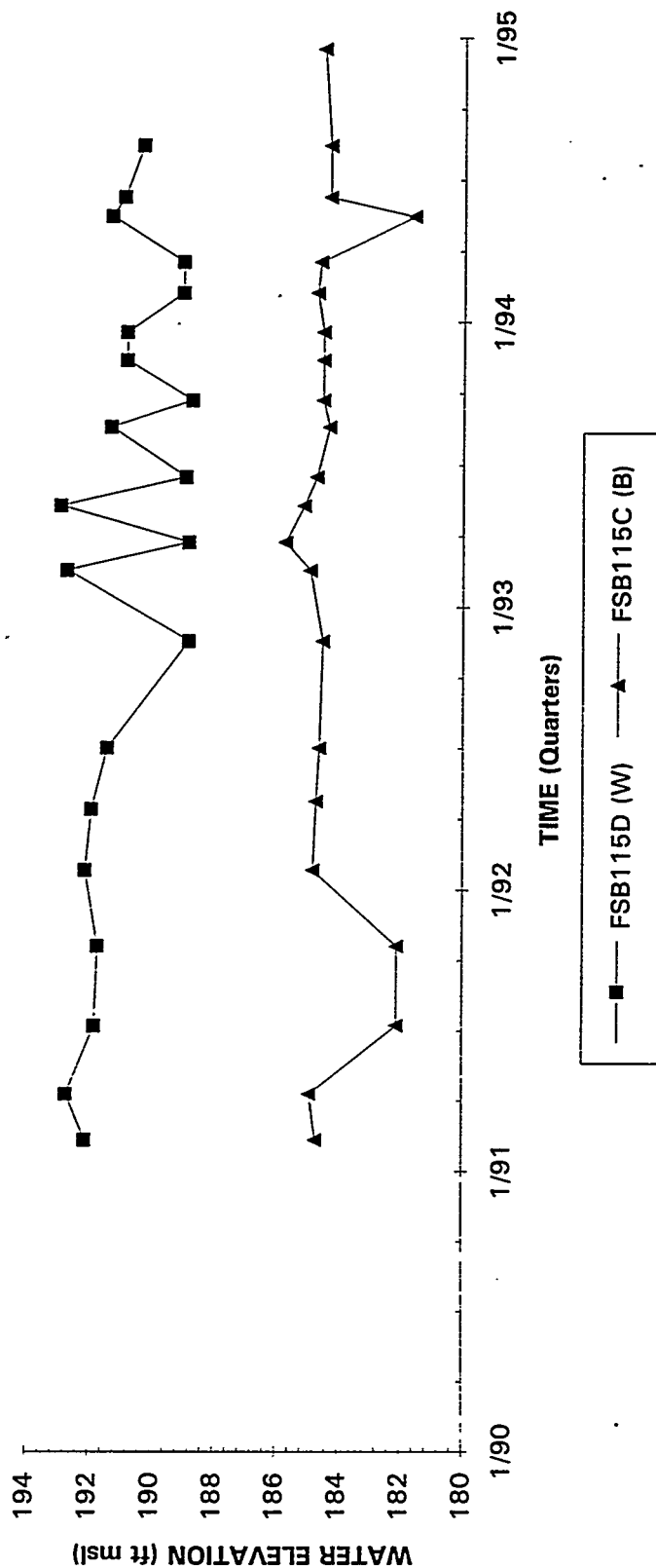
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB114



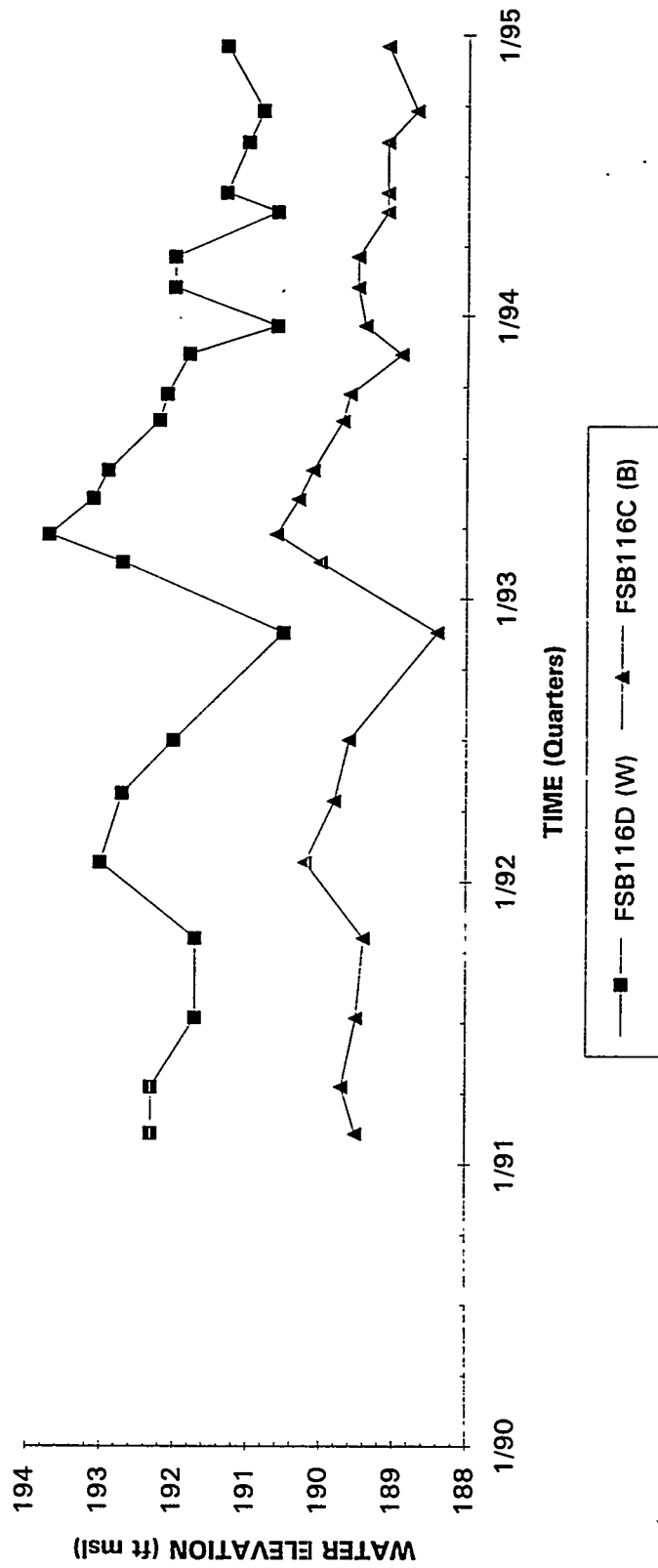
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB115



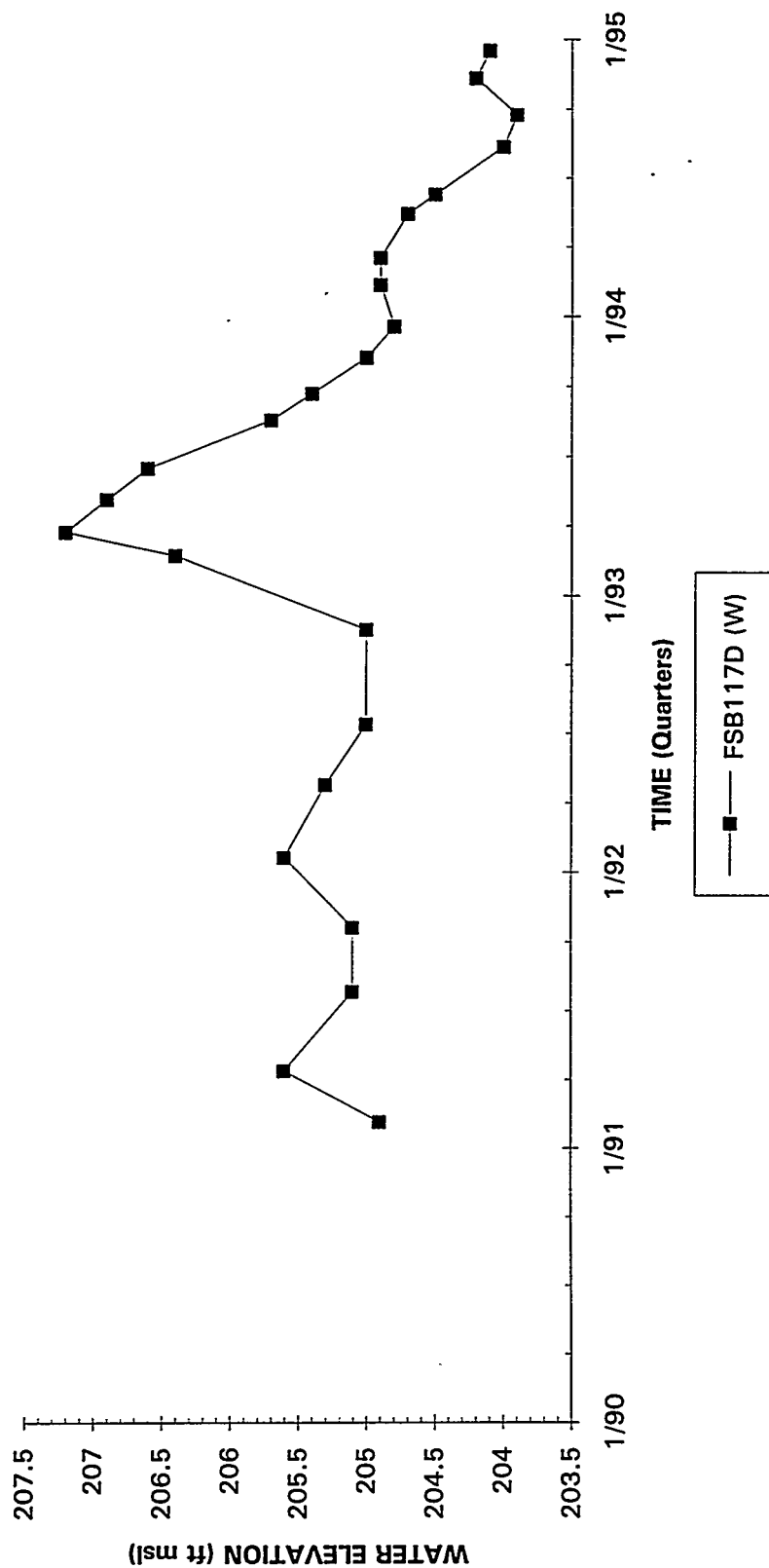
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB116



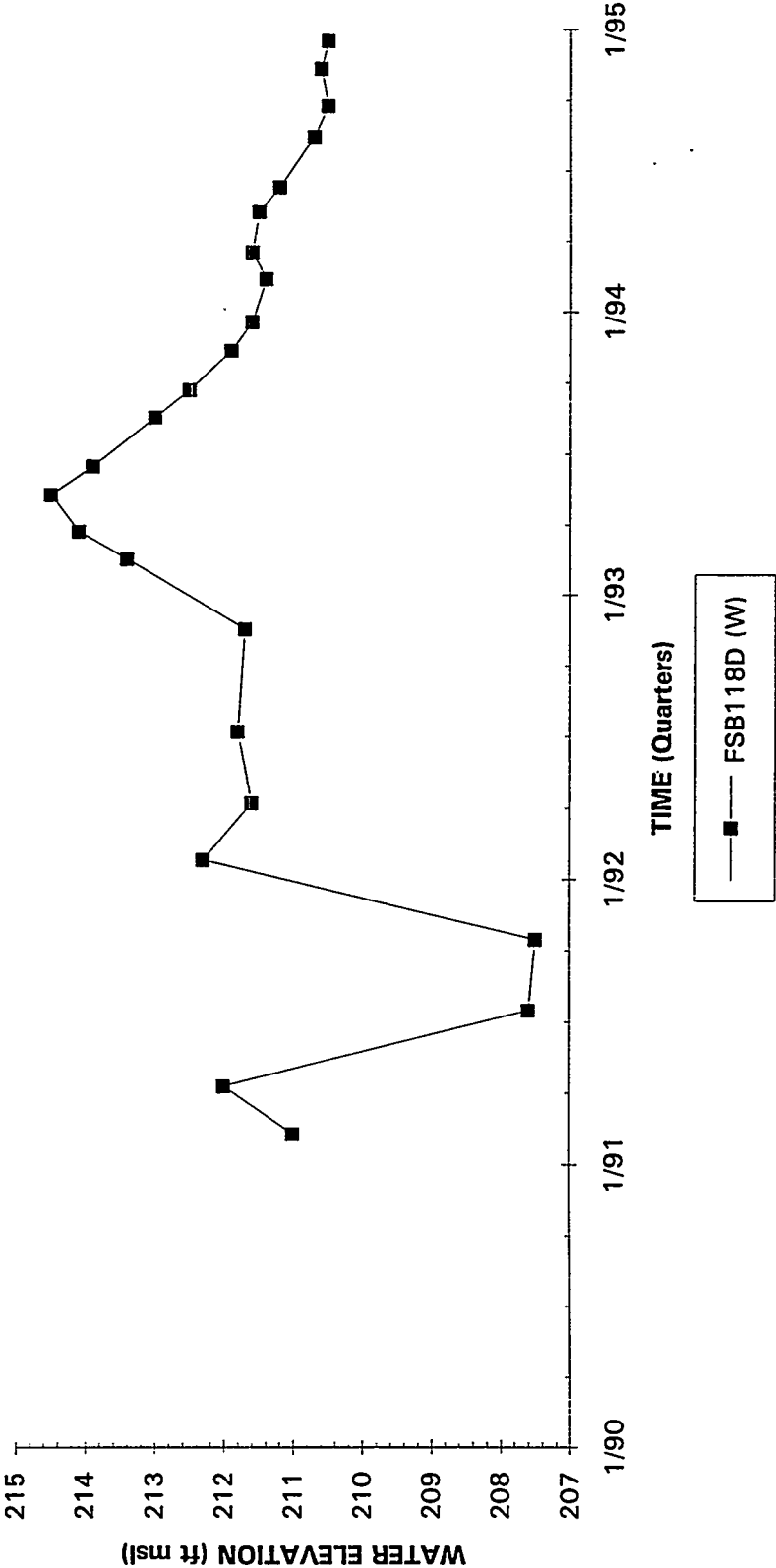
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB117D



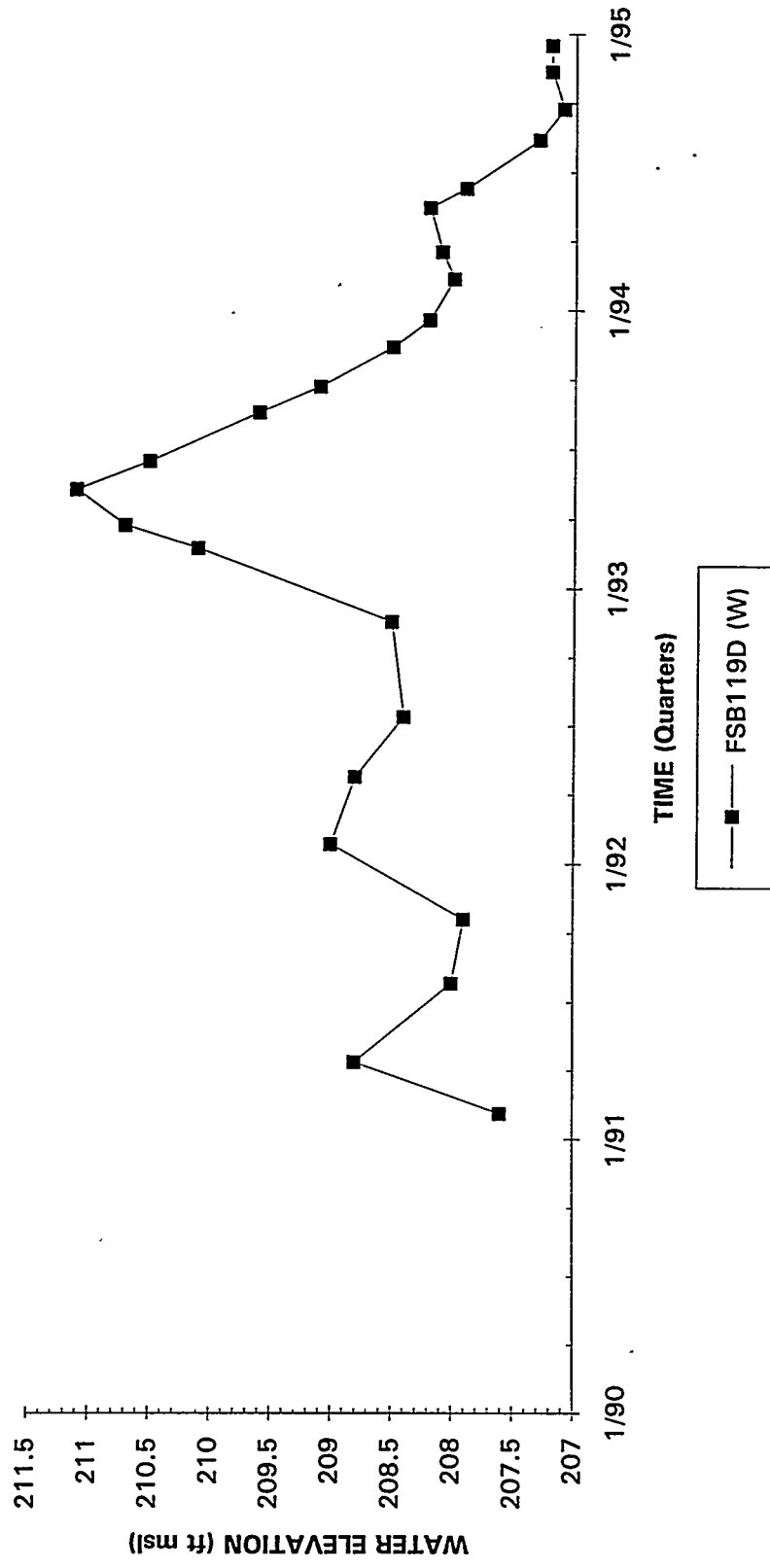
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSB118D



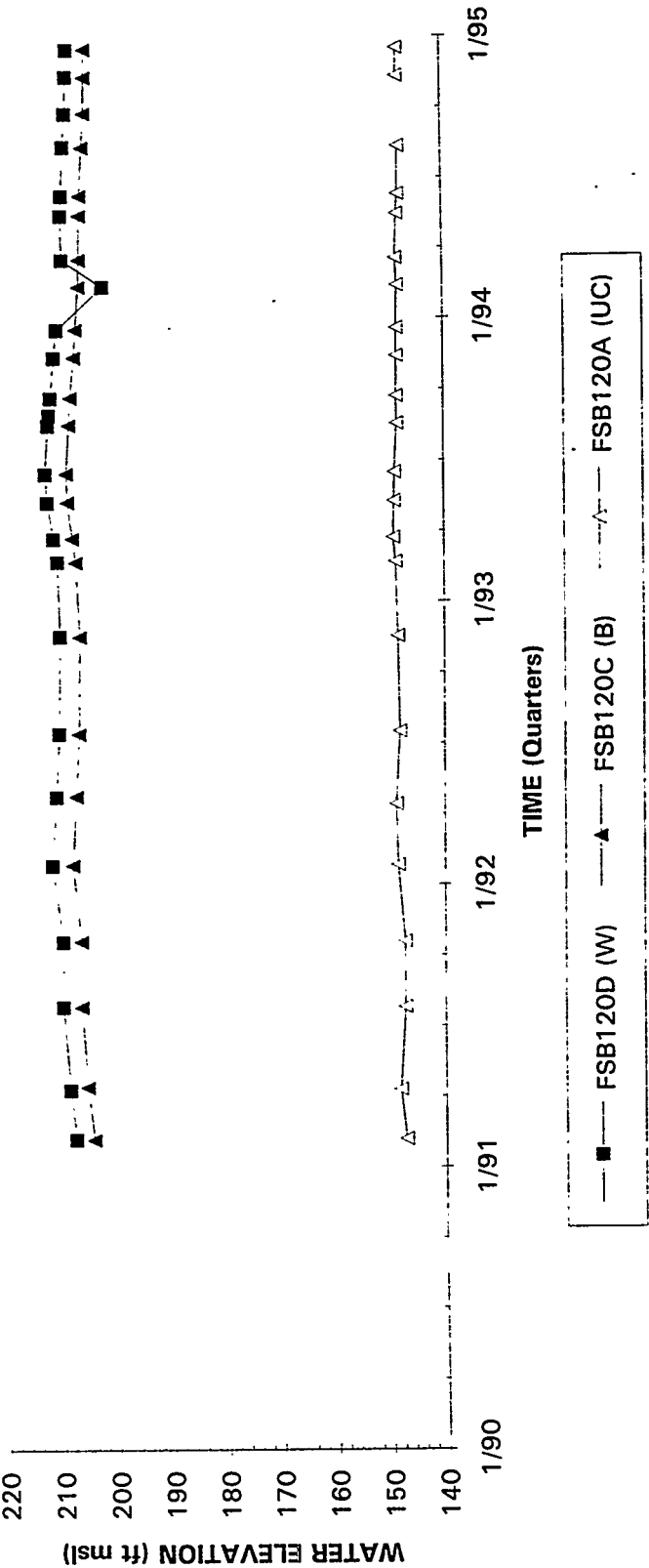
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB119D



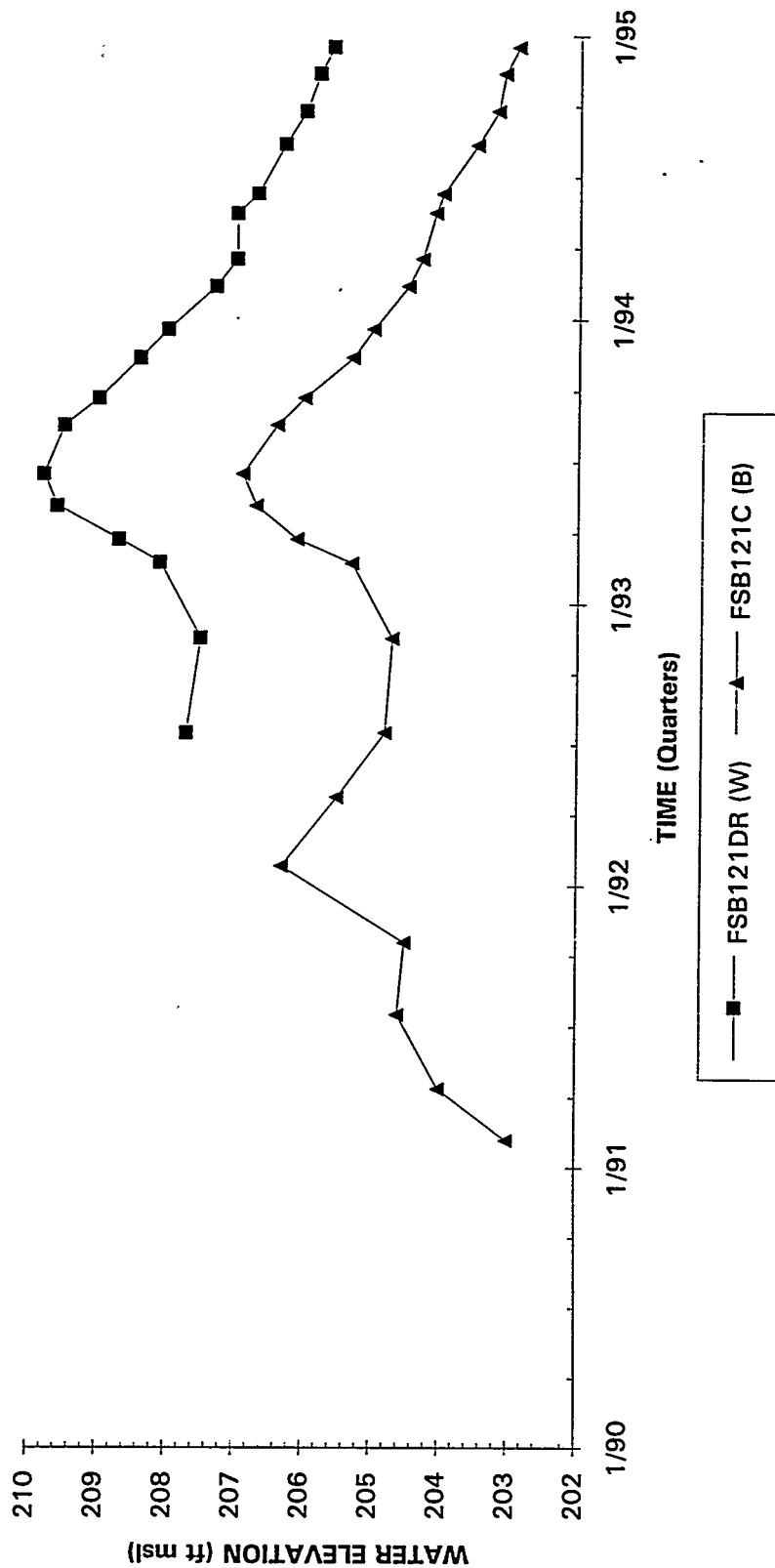
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB120



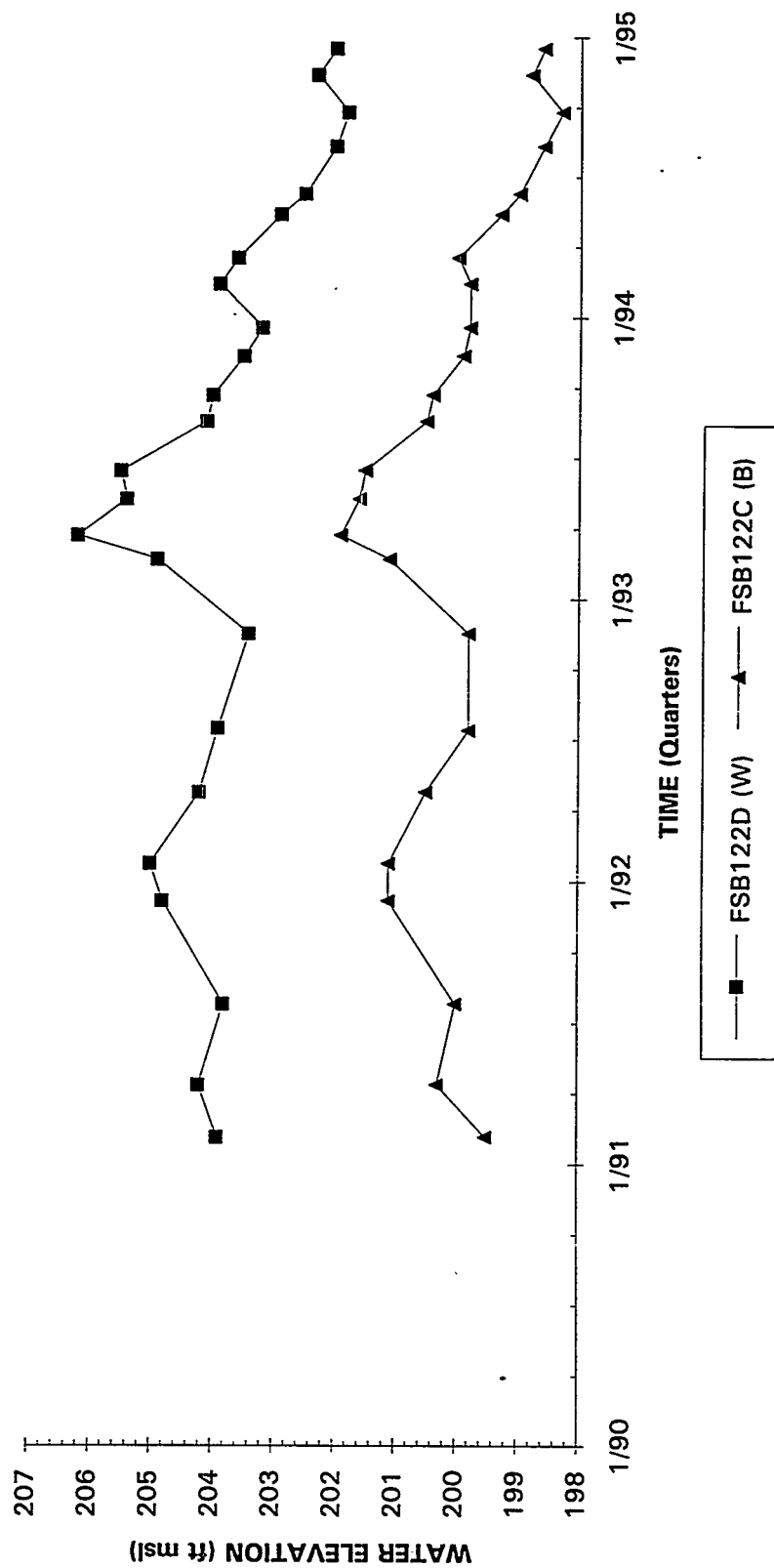
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB121



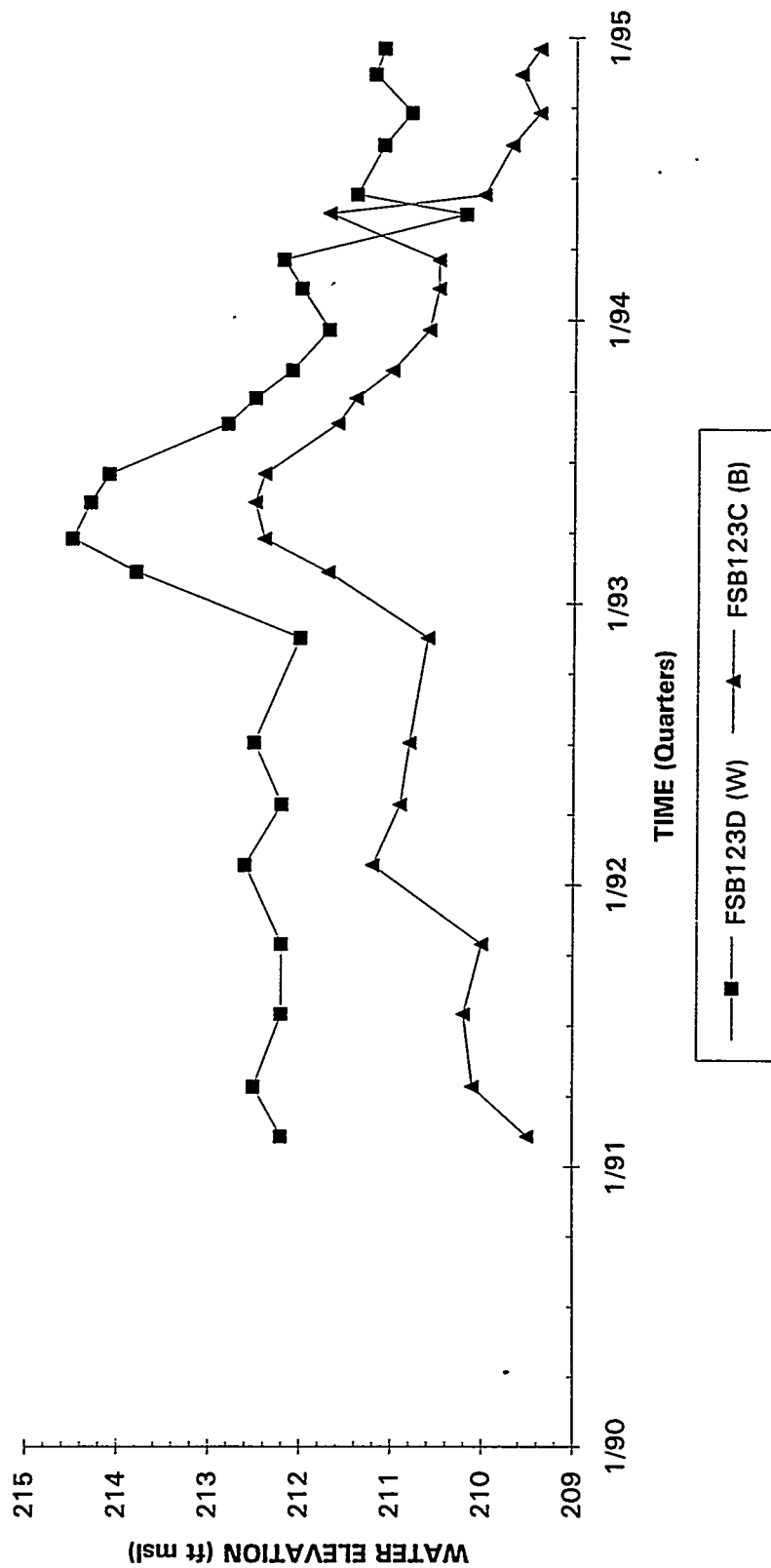
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB122



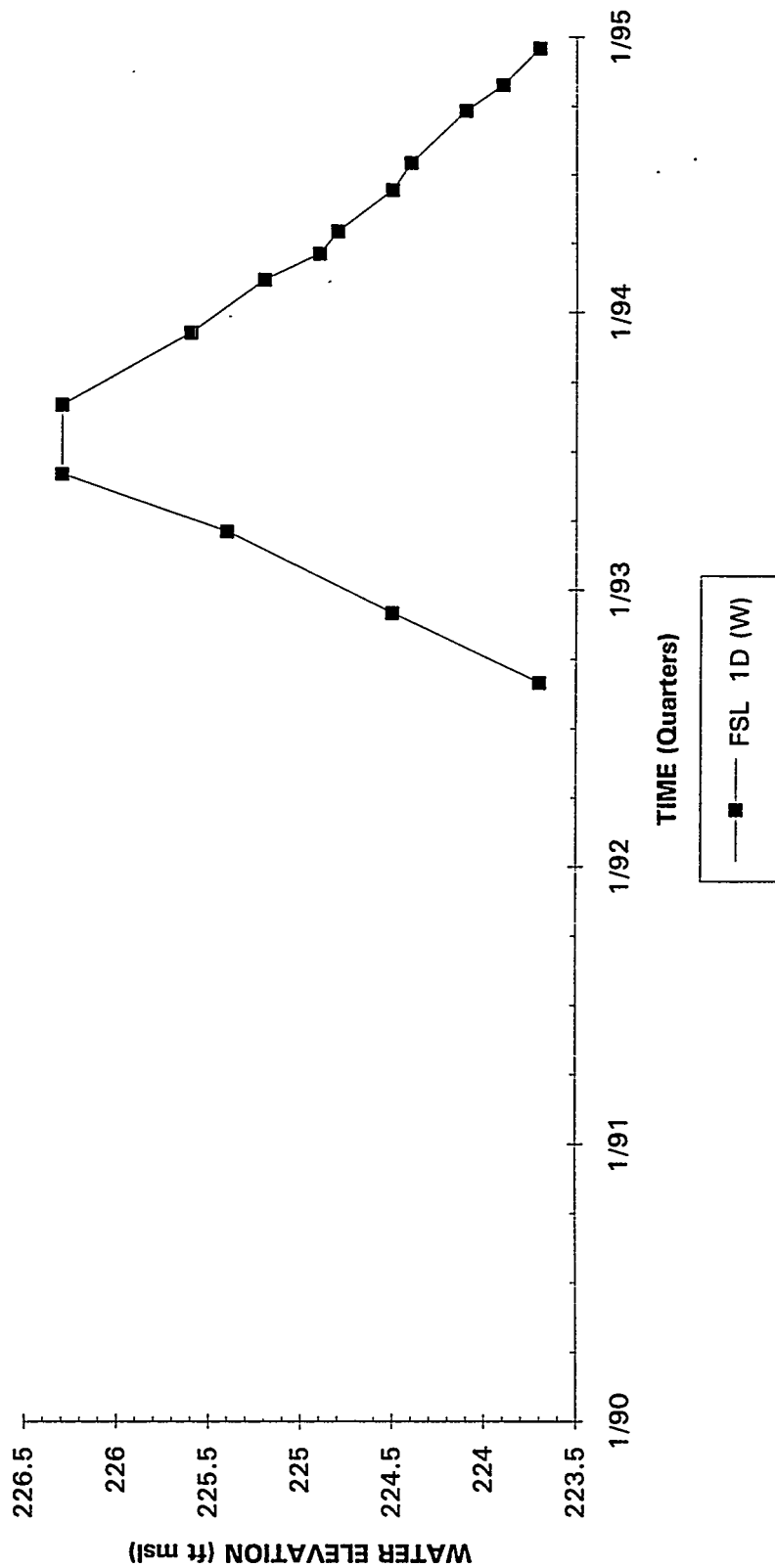
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB123



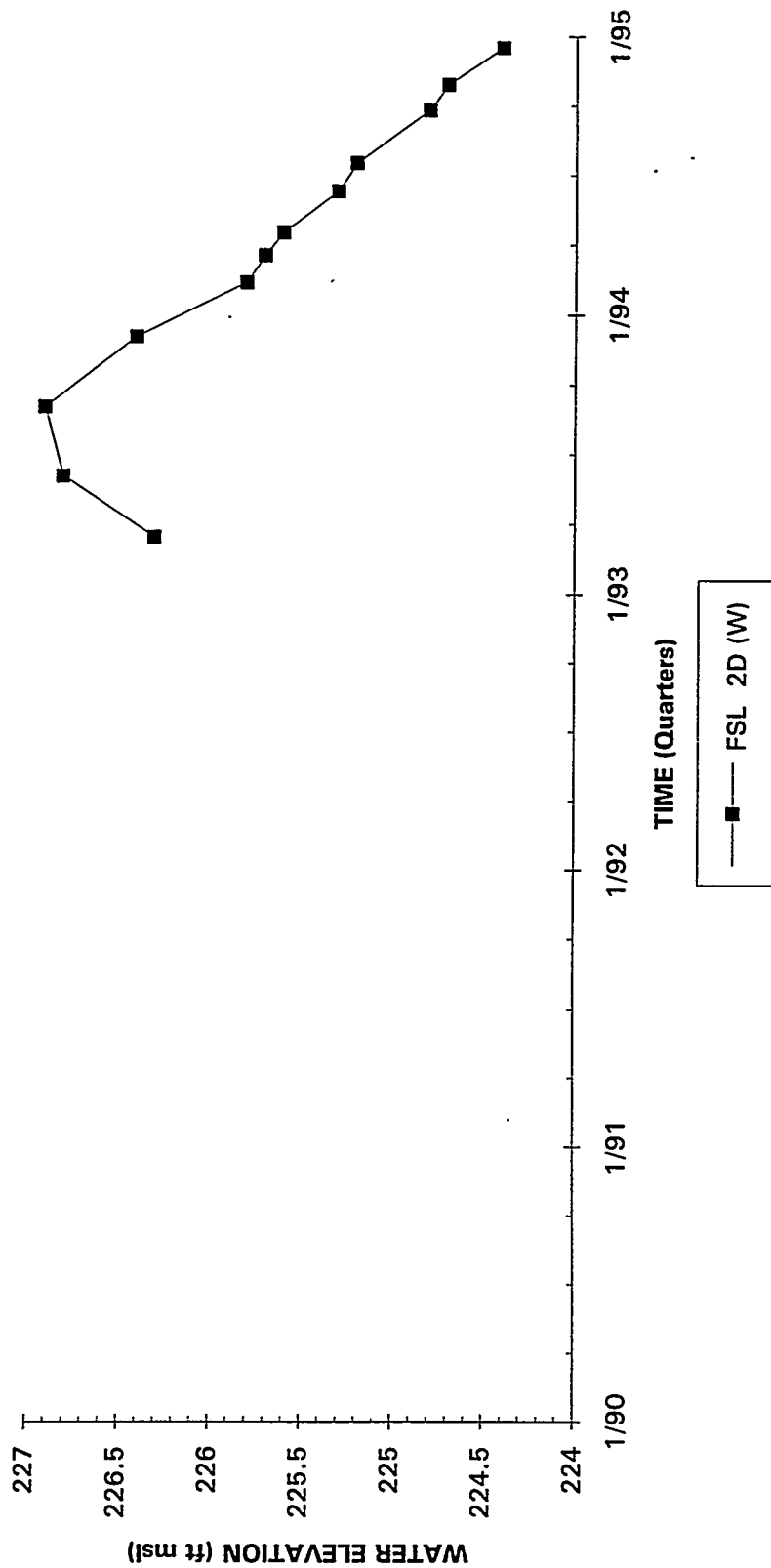
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 1D



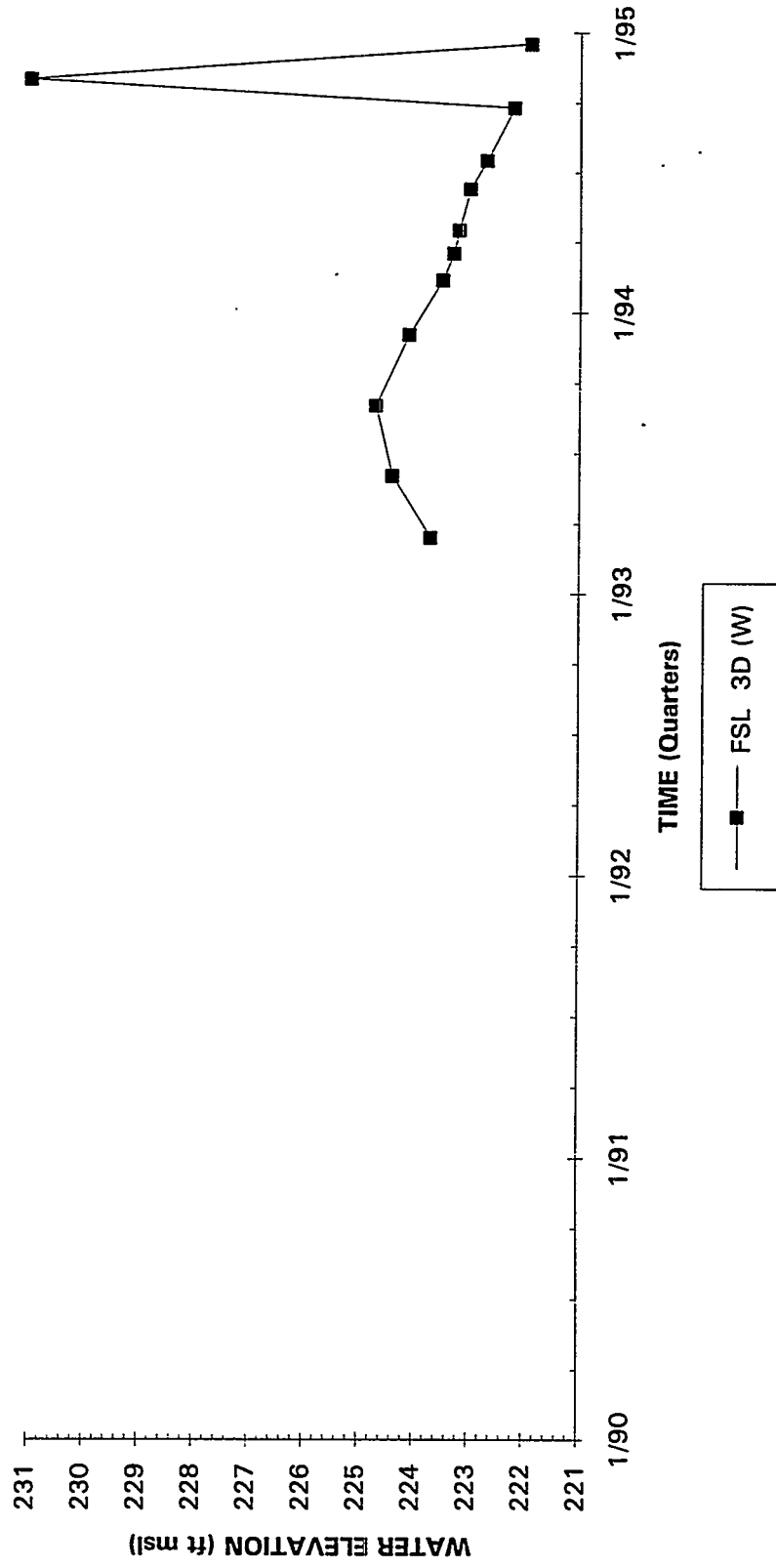
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 2D



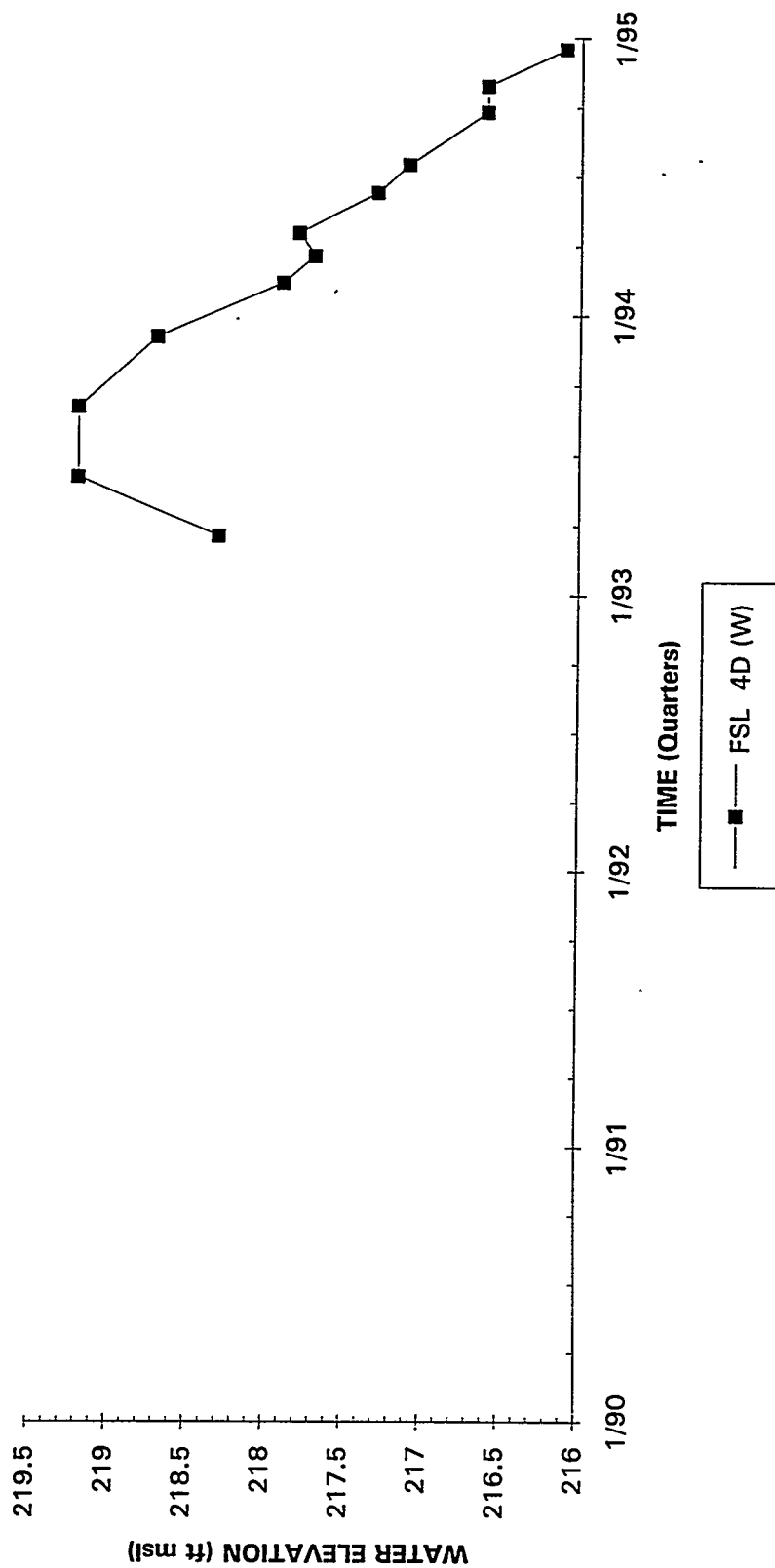
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 3D



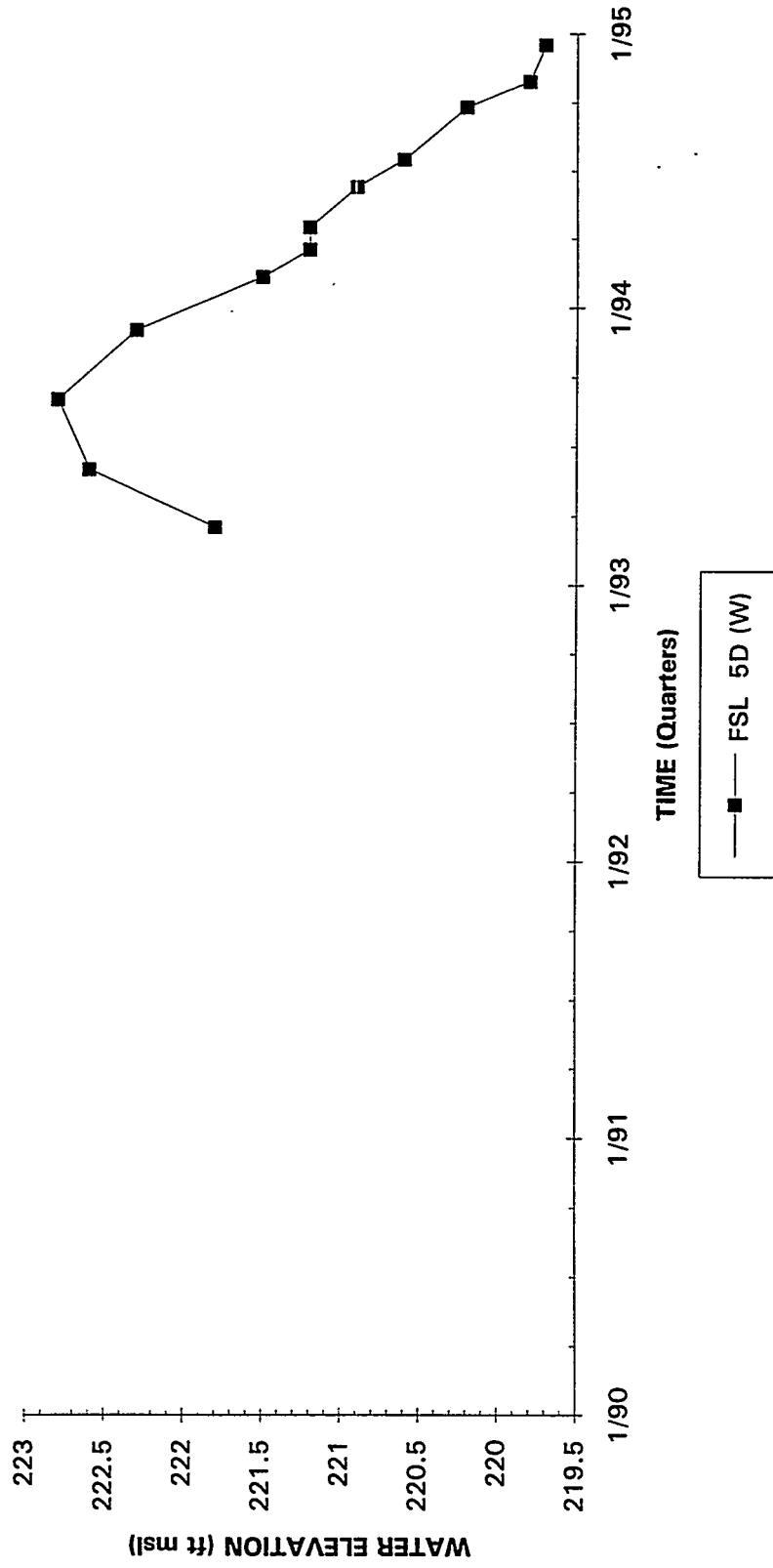
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 4D



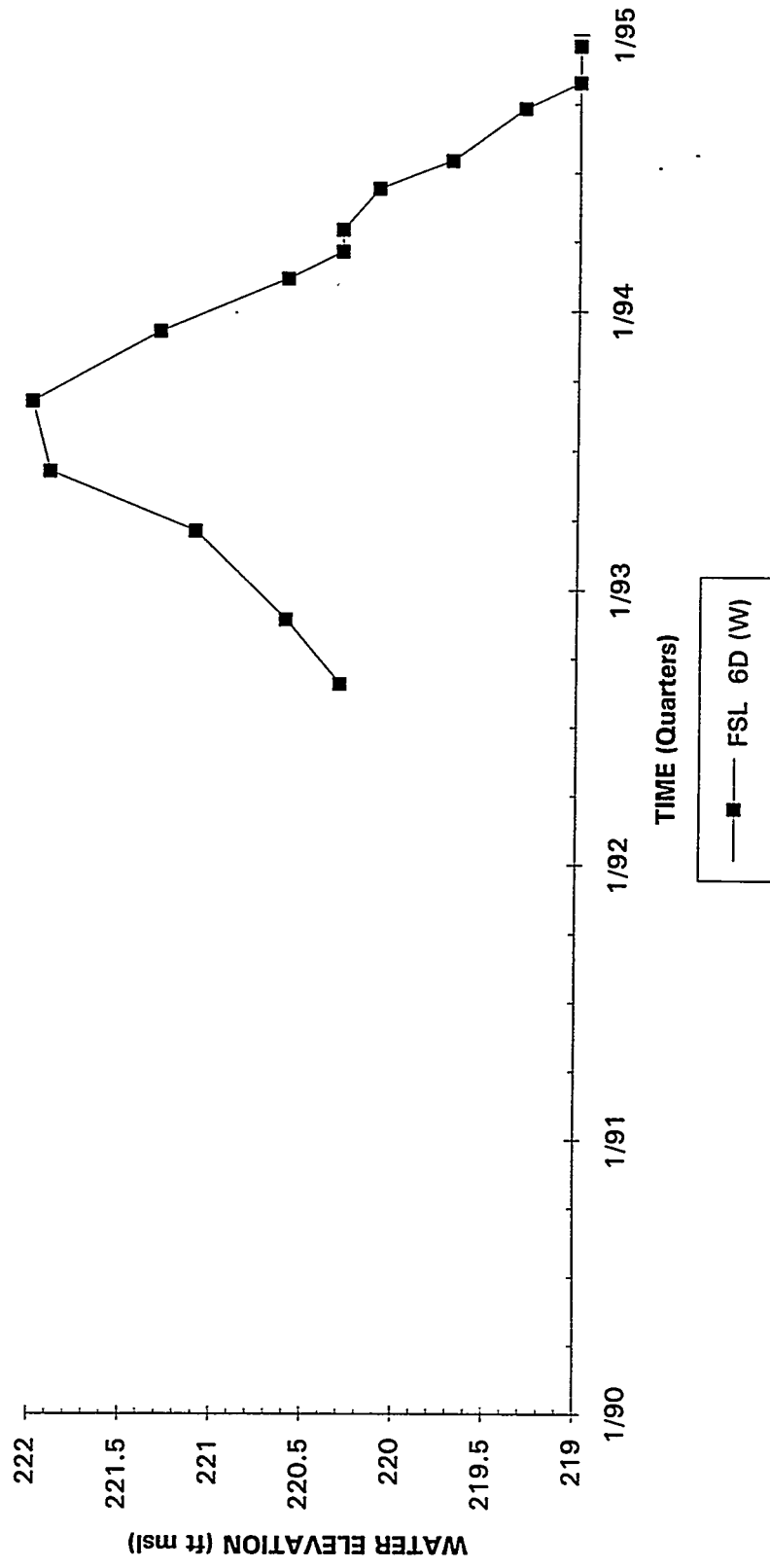
Note: W=Water Table (IIB1); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 5D



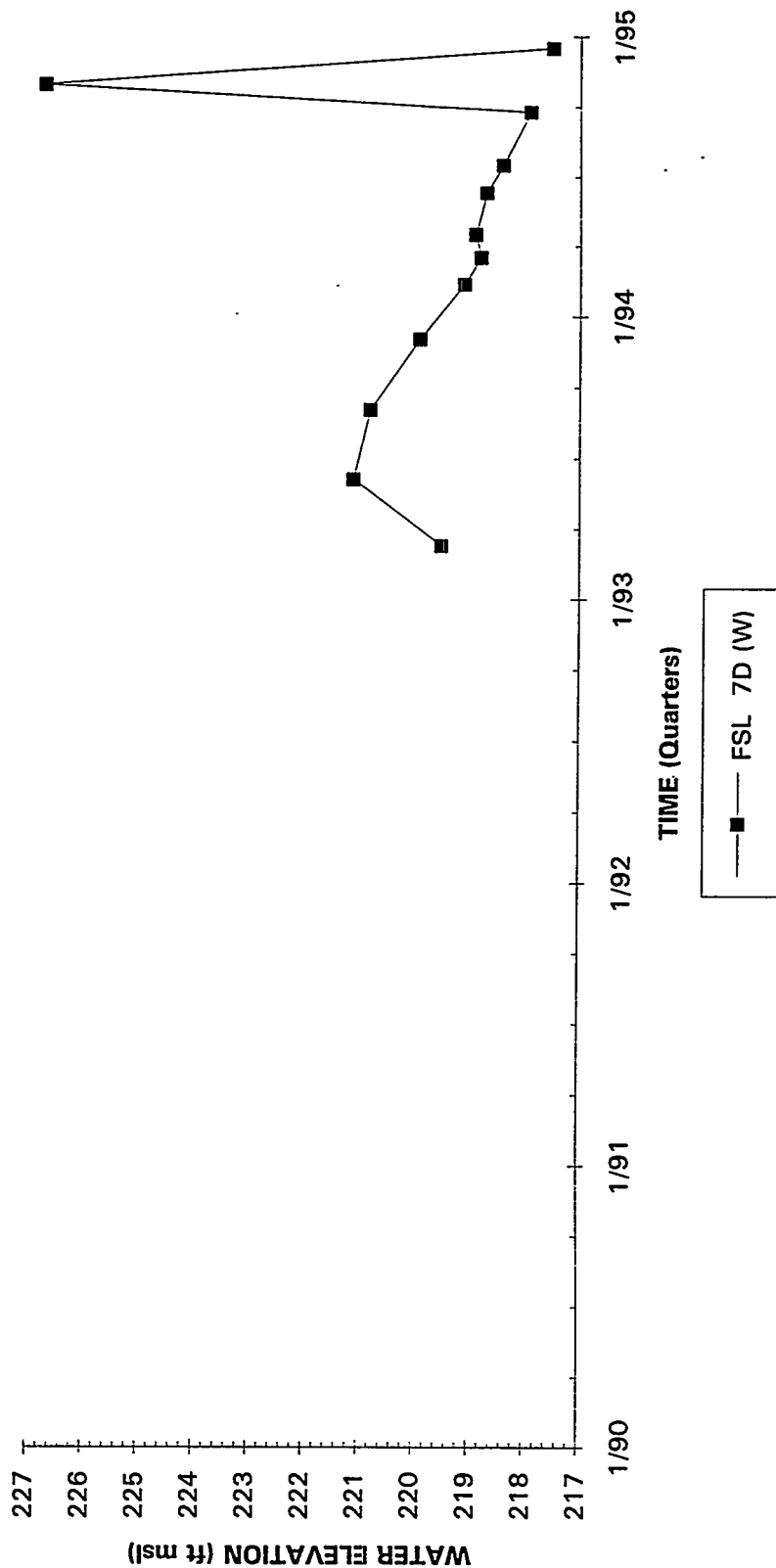
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 6D



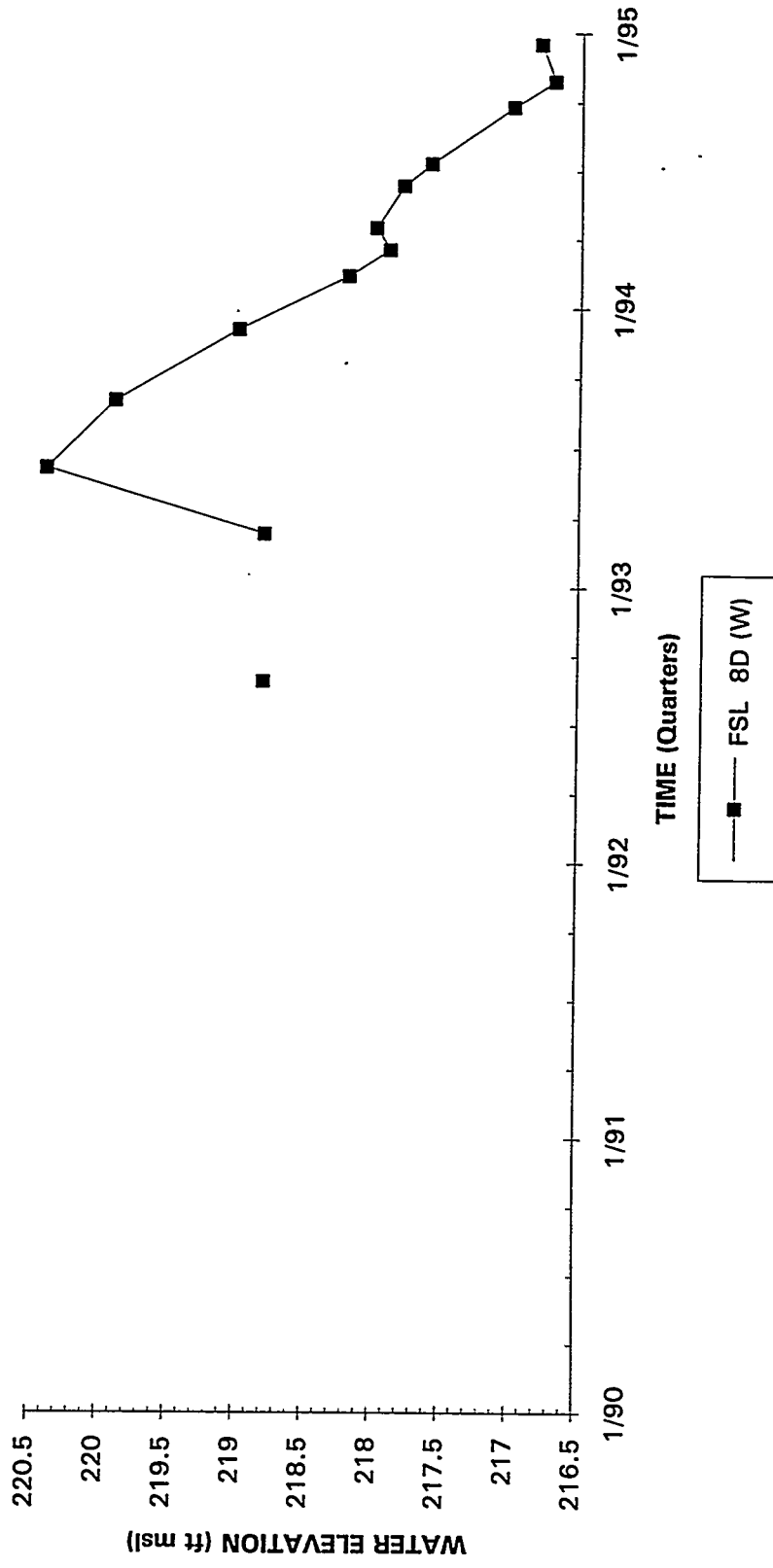
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 7D



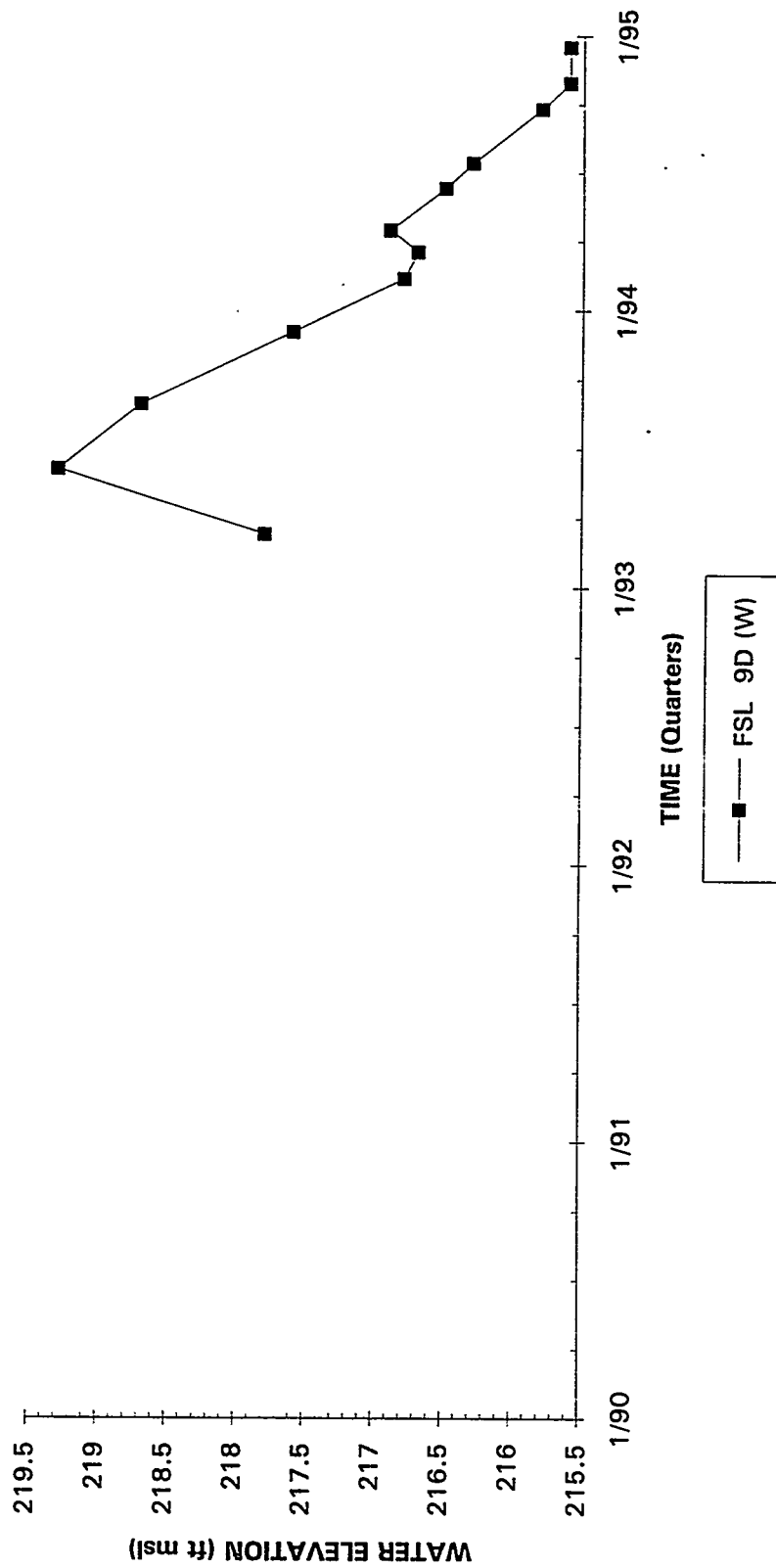
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 8D



Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IA); MC=Middle Congaree (IA); LC=Lower Congaree (IA)

Hydrograph Well FSL 9D



Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)