
F-AREA SEEPAGE BASINS GROUNDWATER MONITORING REPORT (U)

FIRST AND SECOND QUARTERS 1995

Volume I

Publication Date: September 1995

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and Reviewing Official:

UNCLASSIFIED
Does Not Contain Unclassified
Controlled Nuclear Information

Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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Key Words

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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; the FSL wells are not part of Permit SC1-890-008-989.

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 first half of 1995, notably aluminum, iodine-129, pH, strontium-90, 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 first half of 1995. 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, cadmium, gross alpha, 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 first and second quarters 1995. Data from 9 FSL wells are included only to provide additional information on the area; the FSL wells are not part of Permit SC1-890-008-989. 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.

Thirty-three FSB wells and 1 FSL well were not sampled during second quarter 1995 because they were added to the Purge Water Containment (PWC) Program. During the first half of 1995, the following parameters exceeded the GWPS in FSB wells at the FASB: aluminum, americium-241, barium, bis(2-ethylhexyl) phthalate, cadmium, cesium-137, cobalt, copper, curium-243/244, curium-245/246, cyanide, dichloromethane, gross alpha, iodine-129, lead, mercury, nickel, nitrate, nonvolatile beta, pH, plutonium-238, radium-226, radium-228, silver, strontium-89, 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, strontium-90, tritium, and zinc were elevated most frequently, exceeding GWPS in 35 or more FSB wells each. In 74 (86%) of the 86 FSB wells, pH exceeded the GWPS, most often exceeding the acidic standard. Barium, bis(2-ethylhexyl) phthalate, cesium-137, curium-245/246, cyanide, dichloromethane, lead, mercury, plutonium-238, silver, trichloroethylene, and trichlorofluoromethane were elevated less frequently, exceeding GWPS in 5 or fewer FSB wells each. Elevated levels of aluminum, nitrate, pH, trichlorofluoromethane, tritium, and zinc were found in one or more of the upgradient FSB wells.

Elevated constituents were found primarily in Aquifer Zone IIB₂ (Water Table) and Aquifer Zone IIB₁ (Barnwell/McBean). However, gross alpha, iodine-129, nitrate, pH, and tritium 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 first half of 1995: aluminum, gross alpha, lead, 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 and 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 wastewater containing low-level radioactive constituents and chemicals primarily from the F-Area Separations Facility. The main sources for this wastewater 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 wastewater 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 first and second quarters 1995, 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 are 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 first 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, 1995). 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 first and second quarters 1995 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, 87D, 91C, 94C, 97C, 97D, 98D, 108D, 109D, 113A, 113C, 115C, 115D, 116D, 119D, 120D, and 121DR and FSL 1D, 2D, 3D, 4D, 5D, and 7D during first quarter; and wells FSB106D, 108D, 109D, 113A, 113C, 115C, 116D, 120D, and 121DR and FSL 1D, 2D, 3D, 4D, and 5D during second quarter.
- Wells that went dry during sampling, there was insufficient water to collect all samples (I): FSB 90D, 93D, and 106D during first quarter. These wells went dry after field analysis and did not yield enough water for complete laboratory analysis. SRS currently is evaluating the performance of well FSB106D.

- Wells that were inaccessible or had mechanical failure that prevented sampling (P): FSB 88D during first quarter. This problem is currently being addressed.
- Wells that were not sampled during second quarter 1995 because they were added to the Purge Water Containment (PWC) Program (W): FSB 77, 78, 78C, 79, 79C, 88D, 89D, 90D, 91C, 91D, 92C, 92D, 93D, 94C, 94DR, 95CR, 95DR, 97C, 97D, 98C, 98D, 102C, 104D, 105C, 105DR, 106C, 107D, 110D, 112C, 112D, 115D, 117D, and 119D and well FSL 7D. SRS is currently implementing the PWC Program as stated in the approved Investigation-Derived Waste Management Plan (WSRC, 1994). It is anticipated that these wells will be sampled during fourth quarter 1995.

Analytical Results Exceeding Standards

Results for analytes that exceeded the GWPS (see Appendix A) during first and second quarters 1995 are summarized in Table 1 (Appendix D) and in the discussion below.

Aquifer Zone IIB₂ (Water Table), First Quarter 1995

Thirty-five of 36 FSB wells and all 9 FSL wells in Aquifer Zone IIB₂ (Water Table) exhibited one or more parameters that exceeded the GWPS during first quarter 1995. Laboratory pH measurements for 35 FSB wells exceeded the GWPS; laboratory pH was not measured for the FSL wells. Aluminum was elevated in 29 FSB wells, with a maximum concentration of 96,000 $\mu\text{g/L}$ in well FSB110D, and in 8 FSL wells, with a maximum concentration of 2,600 $\mu\text{g/L}$ in well FSL 9D. Zinc was elevated in 28 FSB wells, with a maximum concentration of 720 $\mu\text{g/L}$ in well FSB106D, and was not analyzed in FSL wells. Tritium was elevated in 24 FSB wells, with a maximum activity of $1.9\text{E}+04$ pCi/mL in well FSB110D, and in 7 FSL wells, with a maximum activity of $1.9\text{E}+03$ pCi/mL in well FSL 7D. Gross alpha was elevated in 21 FSB wells, with a maximum activity of $2.5\text{E}+03$ pCi/L in well FSB 78, and in 2 FSL wells, with a maximum activity of $8.1\text{E}+01$ pCi/L in well FSL 9D. Iodine-129 was elevated in 21 FSB wells, with a maximum activity of $2.9\text{E}+02$ pCi/L in well FSB 78, and was not analyzed in FSL wells.

Nitrate was elevated in 20 FSB wells, with a maximum concentration of 380,000 $\mu\text{g/L}$ in well FSB 77, and in 6 FSL wells, with a maximum concentration of 370,000 $\mu\text{g/L}$ in well FSL 1D. Nonvolatile beta was elevated in 20 FSB wells, with a maximum activity of $3.1\text{E}+03$ pCi/L in wells FSB 78 and 112D, and in 3 FSL wells, with a maximum activity of $8.5\text{E}+02$ pCi/L in well FSL 5D.

Strontium-90 was elevated in 20 FSB wells, with a maximum activity of $2.1\text{E}+03$ pCi/L in well FSB 78. Uranium-238 was elevated in 19 FSB wells, with a maximum activity of $1.3\text{E}+03$ pCi/L in wells FSB 94DR and 110D. Uranium-233/234 was elevated in 18 FSB wells, with a maximum activity of $8.8\text{E}+02$ pCi/L in well FSB119D. Americium-241 was elevated in 14 FSB wells, and curium-243/244, radium-228, and uranium-235 were elevated in 11 FSB wells each. None of these constituents were analyzed in FSL wells during first quarter 1995.

Copper was elevated in 9 FSB wells, and strontium-89¹ and thorium-234 were elevated in 7 FSB wells each. Cadmium was elevated in 5 FSB wells, and radium-226 was elevated in 4 FSB wells. The aforementioned constituents were not analyzed in FSL wells. Mercury was elevated in 4 FSB and no FSL wells, and cesium-137 and cobalt were elevated in 3 FSB wells each but were not analyzed in FSL wells.

Lead was elevated in 2 FSB and 2 FSL wells, and bis(2-ethylhexyl) phthalate, curium-245/246, cyanide, and nickel were elevated in 2 FSB wells each but were not analyzed in FSL wells. Barium and trichlorofluoromethane were elevated in 1 FSB well each and were not analyzed in FSL wells. Trichloroethylene was not elevated in any of the FSB wells but was elevated in 2 FSL wells.

Aquifer Zone IIB₁ (Barnwell/McBean), First Quarter 1995

All 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 1.4E+04 pCi/mL in well FSB 95CR. Iodine-129 was elevated in 21 FSB wells, with a maximum activity of 2.3E+02 pCi/L in well FSB 95CR.

Nitrate was elevated in 20 FSB wells, with a maximum concentration of 250,000 µg/L in well FSB 94C. Aluminum was elevated in 19 FSB wells, with a maximum concentration of 77,000 µg/L in well FSB 97C. Zinc was elevated in 17 FSB wells, with a maximum concentration of 590 µg/L in well FSB 78C. Nonvolatile beta and strontium-90 were elevated in 15 FSB wells each. Nonvolatile beta had a maximum activity of 2.5E+03 pCi/L in well FSB 79C, and strontium-90 had a maximum activity of 1.2E+03 pCi/L in well FSB 95CR.

Gross alpha was elevated in 14 FSB wells, radium-226 was elevated in 9 FSB wells, and cobalt was elevated in 8 FSB wells. Cadmium, uranium-233/234, and uranium-238 were elevated in 7 FSB wells each. Americium-241, curium-243/244, nickel, radium-228, strontium-89¹, and uranium-235 were elevated in 5 FSB wells each, and copper was elevated in 3 FSB wells. Trichloroethylene and trichlorofluoromethane were elevated in 2 FSB wells each, and dichloromethane and plutonium-238 were elevated in 1 FSB well each.

Upper portion of Aquifer Unit IIA (Congaree), First Quarter 1995

Thirteen 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 10 FSB wells, with a maximum activity of 2.7E+02 pCi/mL in well FSB 78B. Aluminum was elevated in 4 FSB wells, and iodine-129 was elevated in 3 FSB wells. Laboratory measurements of pH exceeded the GWPS in 3 FSB wells. Nitrate was elevated in 1 FSB well.

Lower portion of Aquifer Unit IIA (Congaree), First Quarter 1995

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), Second Quarter 1995

During second quarter 1995, 21 of the 36 FSB wells and 1 of the 9 FSL wells in Aquifer Zone IIB₂ (Water Table) were not sampled because they were part of the PWC Program. The remaining wells were sampled for a reduced number of constituents. Fifteen FSB wells and 8 FSL wells in Aquifer Zone IIB₂ (Water Table) exhibited one or more parameters that exceeded the GWPS during second quarter 1995. Laboratory pH measurements were elevated in 15 FSB wells and 7 FSL wells.

Tritium was elevated in 5 FSB wells, with a maximum activity of $4.8\text{E}+02$ pCi/mL in well FSB118D, and in 6 FSL wells, with a maximum activity of $6.4\text{E}+02$ pCi/mL in well FSL 5D. Gross alpha was elevated in 3 FSB wells and 1 FSL well. Lead and nonvolatile beta were elevated in 1 FSB well and 2 FSL wells each. Silver was elevated in 1 FSB well and no FSL wells. Nitrate was elevated in no FSB wells and 3 FSL wells.

Zinc was elevated in 4 FSL wells, trichlorofluoromethane was elevated in 3 FSL wells, and trichloroethylene was elevated in 1 FSL well. These constituents were not analyzed in FSB wells.

Aquifer Zone IIB₁ (Barnwell/McBean), Second Quarter 1995

During second quarter 1995, 12 of the 32 FSB wells in Aquifer Zone IIB₁ (Barnwell/McBean) were not sampled because they were part of the PWC Program. The remaining wells were sampled for a reduced number of constituents. No FSL wells are located in Aquifer Zone IIB₁ (Barnwell/McBean). Twenty FSB wells in Aquifer Zone IIB₁ (Barnwell/McBean) had one or more parameters that exceeded the GWPS. Laboratory pH measurements exceeded the GWPS in 20 FSB wells.

Tritium was elevated in 11 FSB wells, with a maximum activity of $1.7\text{E}+03$ pCi/mL in well FSB122C. Nitrate was elevated in 8 FSB wells, nonvolatile beta was elevated in 3 FSB wells, and gross alpha was elevated in 2 FSB wells.

Upper portion of Aquifer Unit IIA (Congaree), Second Quarter 1995

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 8 FSB wells, with a maximum activity of $4.9\text{E}+02$ pCi/mL in well FSB114A. Laboratory pH measurements exceeded the GWPS in 3 FSB wells. Gross alpha and nitrate were elevated in 1 FSB well each.

Lower portion of Aquifer Unit IIA (Congaree), Second Quarter 1995

Laboratory measurements of pH exceeded the GWPS in all 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 first and second quarters 1995 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 first and second quarters 1995. 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 first quarter 1995 are presented in Figures 8 through 31 (Appendix C). Isoconcentration contouring for radium-226 and -228 maps for second quarter 1995 was not possible because of these constituents were not scheduled for sampling. Only first quarter 1995 data were used for all constituents because some of the wells in the General Separations Area were not sampled second quarter 1995. Piezometric and potentiometric surface maps for the monitored water-bearing units during first and second quarters 1995 are located in Figures 32 through 37 (Appendix C). Levels of pH and specific conductance in the three hydrostratigraphic units during first quarter 1995 are shown in Figures 38 through 43 (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 first quarter 1995, as required by section IIIC.H.10.b.iv of the permit, and large-scale piezometric and potentiometric maps for first quarter 1995, 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 March 27 during first quarter 1995 and on June 15 and 16 during second quarter 1995.

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 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 first half of 1995 is compared with the SRS average monthly rainfall for the same period and to the SRS historical average monthly rainfall.

Rainfall (in.) during First and Second Quarters of 1995

	F-Area (200-F) Rainfall/Month (1995)	SRS Average Rainfall/Month (1995)	SRS Average Rainfall/Month (historical)
January	5.97	6.95	4.30
February	7.50	7.46	4.46
March	0.83	5.28	4.90
April	0.93	4.28	3.35
May	2.10	3.78	3.86
June	12.47	4.58	4.48
Six-month total	29.80	32.33	25.35

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	3Q94	4Q94	1Q95	2Q95
Aquifer Zone IIB ₂ (Water Table)	211.78	211.66	212.56	211.94
Aquifer Zone IIB ₁ (Barnwell/McBean)	205.23	204.73	206.13	206.15
Aquifer Unit IIA (Congaree, upper portion)	153.90	153.78	154.19 ^a	154.51
Aquifer Unit IIA (Congaree, lower portion)	155.39	155.60	156.51	156.51

^a The water-level measurement for well FSB113A for first quarter 1995 was anomalous and was not used in average water-level calculations.

During first quarter 1995, the average water elevation in Aquifer Zone IIB₂ (Water Table) rose 0.90 ft compared to fourth quarter 1994; the average water level in Aquifer Zone IIB₁ (Barnwell/McBean) rose 1.4 ft; the average water level in the upper portion of Aquifer Unit IIA (Congaree) rose 0.41 ft; and the average water level in the lower portion of Aquifer Unit IIA (Congaree) rose 0.91 ft.

During second quarter 1995, the average water elevation in Aquifer Zone IIB₂ (Water Table) declined 0.62 ft compared to first quarter 1995; the average water level in Aquifer Zone IIB₁ (Barnwell/McBean) rose 0.02 ft; the average water level in the upper portion of Aquifer Unit IIA (Congaree) rose 0.32 ft; and the average water level in the lower portion of Aquifer Unit IIA (Congaree) remained the same.

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 first and second quarters 1995. Large-scale piezometric and potentiometric maps for each hydrostratigraphic unit during first quarter 1995, 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 to southeast and flow in Aquifer Zone IIB₁ (Barnwell/McBean) was south or south to southeast during first and second quarters 1995. 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 first and second quarters are provided in the following table.

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

Unit	1Q95	2Q95
Aquifer Zone IIB ₂ (Water Table)	88–110	95–110
Aquifer Zone IIB ₁ (Barnwell/McBean)	84–210	73–180
Aquifer Unit IIA (Congaree)	550	620

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 rate 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 is 10.4 ft/day; and for Aquifer Unit IIA (Congaree), Kh is 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 first quarter 1995 as follows:

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

Flow path A

$$\frac{10}{0.20} \times \frac{10}{2,100} \approx 0.24 \text{ ft/day}$$

$$0.24 \text{ ft/day} \times 365 \text{ days} \approx 88 \text{ ft/year}$$

Flow path B

$$\frac{10}{0.20} \times \frac{12}{2,050} \approx 0.29 \text{ ft/day}$$

$$0.29 \text{ ft/day} \times 365 \text{ days} \approx 110 \text{ ft/year}$$

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

Flow path A

$$\frac{10.4}{0.20} \times \frac{12}{2,700} \approx 0.23 \text{ ft/day}$$

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

Flow path B

$$\frac{10.4}{0.20} \times \frac{16}{1,450} \approx 0.57 \text{ ft/day}$$

$$0.57 \text{ ft/day} \times 365 \text{ days} \approx 210 \text{ ft/year}$$

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

$$\frac{65}{0.20} \times \frac{7}{1,500} \approx 1.5 \text{ ft/day}$$

$$1.5 \text{ ft/day} \times 365 \text{ days} \approx 550 \text{ ft/year}$$

Groundwater flow rates were calculated for second quarter 1995 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

$$\frac{10}{0.20} \times \frac{10}{1,600} \approx 0.31 \text{ ft/day}$$

$$0.31 \text{ ft/day} \times 365 \text{ days} \approx 110 \text{ ft/year}$$

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

Flow path A

$$\frac{10.4}{0.20} \times \frac{10}{2,600} \approx 0.20 \text{ ft/day}$$

$$0.20 \text{ ft/day} \times 365 \text{ days} \approx 73 \text{ ft/year}$$

Flow path B

$$\frac{10.4}{0.20} \times \frac{14}{1,500} \approx 0.49 \text{ ft/day}$$

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

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

$$\frac{65}{0.20} \times \frac{7}{1,350} \approx 1.7 \text{ ft/day}$$

$$1.7 \text{ ft/day} \times 365 \text{ days} \approx 620 \text{ ft/year}$$

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 first half of 1995, upgradient wells FSB 78B, 108D, 109D, and 113A contained elevated levels of aluminum. Upgradient wells FSB 76C, 78A, 79A, 108D, 109D, and 113A exhibited pH values that exceeded the GWPS. Upgradient wells FSB 108D and 109D contained elevated levels of zinc. Upgradient well FSB 78B contained elevated levels of nitrate. Upgradient wells FSB 78B, 79B, 109D, 112A, and 113A contained elevated levels of tritium. Upgradient well FSB 76C also contained an elevated level of trichlorofluoromethane.

Wells FSB 76C and 108D and well HSB 85A are the designated background wells for the FASB. Aluminum, pH, trichlorofluoromethane, and zinc were the only parameters exceeding GWPS in one or more of the background wells during the first half of 1995.

Conclusions

The groundwater at the FASB contains elevated levels of radionuclides and chemicals from 30 years of receiving contaminated wastewater from the F-Area Separations Area. During the first half of 1995, 34 parameters exceeded the GWPS in wells at the FASB. Elevated constituents occurred in 84 of the 86 FSB wells monitoring the FASB and in all 9 FSL monitoring wells.

Aluminum and zinc were the primary metals that exceeded the GWPS during the first half of 1995. Aluminum occurred at a maximum concentration of 96,000 $\mu\text{g/L}$ in well FSB110D during first quarter 1995, and zinc was found at a maximum concentration of 720 $\mu\text{g/L}$ in well FSB106D during first quarter 1995. Barium, cadmium, cobalt, copper, cyanide, lead, mercury, nickel, and silver also exceeded the GWPS in one or more FSB wells during the first half of 1995.

Nitrate and pH, which are monitored along with aluminum as water-quality indicator parameters, exceeded the GWPS in numerous FSB wells during the first half of 1995. Most of the pH results exceeded the acidic standard of 6.8 pH units. Bis(2-ethylhexyl) phthalate, dichloromethane (a common laboratory contaminant), trichloroethylene, and trichlorofluoromethane exceeded GWPS in 3 or fewer FSB wells each during the first half of 1995.

During the first half of 1995, americium-241, curium-243/244, gross alpha, iodine-129, nonvolatile beta, radium-228, strontium-90, tritium, uranium-233/234, uranium-235, 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' maximum activities, which were all detected during first quarter 1995, were as follows: americium-241 at $9.9\text{E}+01$ pCi/L in well FSB110D, curium-243/244 at $1.6\text{E}+02$ pCi/L in well FSB 94DR, gross alpha at $2.5\text{E}+03$ pCi/L in well FSB 78, iodine-129 at $2.9\text{E}+02$ pCi/L in well FSB 78, nonvolatile beta at $3.1\text{E}+03$ pCi/L in wells FSB 78 and 112D, radium-228 at $2.5\text{E}+02$ pCi/L in well FSB 95CR, strontium-90 at $2.1\text{E}+03$ pCi/L in well FSB 78, tritium at $1.9\text{E}+04$ pCi/mL in well FSB110D, uranium-233/234 at $8.8\text{E}+02$ pCi/L in well FSB119D, uranium-235 at $4.6\text{E}+01$ pCi/L in well FSB119D, and uranium-238 at $1.3\text{E}+03$ pCi/L in wells FSB 94DR and 110D. Elevated activities of cesium-137, curium-245/246, plutonium-238, radium-226, strontium-89¹, and thorium-234 also were detected during this period.

The constituents that occurred most frequently in FSB wells during the first half of 1995, with the addition of strontium-90, are the same as those that occurred most frequently during the second half of 1994. During the second half of 1994, aluminum, gross alpha, iodine-129, nitrate, non-volatile beta, tritium, and zinc were elevated in 34 or more FSB wells each. These same constituents were elevated in 35 or more FSB wells each during the first half of 1995.

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 first half of 1995, upgradient FSB wells contained elevated levels of aluminum, nitrate, pH, trichlorofluoromethane, 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 first half of 1995: aluminum, gross alpha, lead, 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 first quarter 1995 ranged from approximately 88 to 110 ft/year and from approximately 95 to 110 ft/year in Aquifer Zone IIB₂ (Water Table). The flow rate in Aquifer Zone IIB₁ (Barnwell/McBean) ranged from approximately 84 to 210 ft/year during first quarter 1995 and from approximately 73 to 180 ft/year during second quarter 1995. The flow rate in Aquifer Unit IIA (Congaree) was estimated at 550 ft/year during first quarter 1995 and 620 ft/year during second quarter 1995.

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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Errata

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 third and fourth quarters 1994 report (WSRC-TR-94-0487) 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 the third and fourth quarters 1994 report (WSRC-TR-94-0487).

Third and Fourth Quarters 1994:

- Modifiers for the following analyses in Table 3 (Appendix D) were not assigned correctly for some wells as follows: laboratory pH values should have had holding time indicators and measured radionuclides with a result of 0.0E+00 preceded by a less than (<) sign should have had UI modifiers instead of the less than sign.
- Volume II: The large isoconcentration maps included with the report had the incorrect document numbers listed in the map legends. The correct document numbers are WSRC-TR-94-0487 and WSRC-TR-94-0488, F-Area and H-Area, respectively.

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>

SCHWMMR 264.94 Table 1 Hazardous Constituents

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

SCHWMMR 261 Appendix VIII/264 Appendix IX Hazardous Constituents

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

Water Quality Indicator Parameters

Aluminum	µg/L	50–200 ^c
Nitrate	µg/L	10,000
pH	pH	6.8–8.5

Common Laboratory Contaminants

Bis(2-ethylhexyl) phthalate	µg/L	10
Dichloromethane	µg/L	5

Radiological Indicator Parameters

Gross alpha	pCi/L	15
Nonvolatile beta	pCi/L	50 ^d

Measured Radionuclides^e

Actinium-228	pCi/L	3.27E+03
Americium-241	pCi/L	6.34E+00
Cesium-137	pCi/L	2E+02
Cobalt-60	pCi/L	1E+02

Analyte	Unit	Concentration/Activity Limit
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 µg/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 µg/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 µg/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.
- ^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 ≈ 3E-03; nickel-63/cobalt-60 ≈ 1; plutonium-241/plutonium-239/240 ≈ 4; and plutonium-242/plutonium-239/240 ≈ 2E-05.

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Table 2. Final Primary Drinking Water Standards

<u>Analyte</u>	<u>Unit</u>	<u>Level</u>	<u>Status</u>	<u>Source</u>
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

Analyte	Unit	Level	Status	Source
Strontium-89/90 ^a	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

- ^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, ketones, phthalates, and toluene are not assigned flagging criteria unless they have PDWS. 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-Benzoquinone	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	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)
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)
Dissolved organic carbon	µg/L	5,000	10,000	EPA Method 9060

Analyte	Unit	Flag 1	Flag 2	Source
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
Isophorone	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source
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
4-Nitrophenol	µg/L	50	100	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source
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)
Plutonium-242 ^c	pCi/L	3.27E+01	6.54E+01	Proposed PDWS (EPA, 1991)

Analyte	Unit	Flag 1	Flag 2	Source
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)
Thallium, dissolved	µg/L	1	2	Final PDWS (EPA, 1993a)

Analyte	Unit	Flag 1	Flag 2	Source
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
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)

<u>Analyte</u>	<u>Unit</u>	<u>Flag 1</u>	<u>Flag 2</u>	<u>Source</u>
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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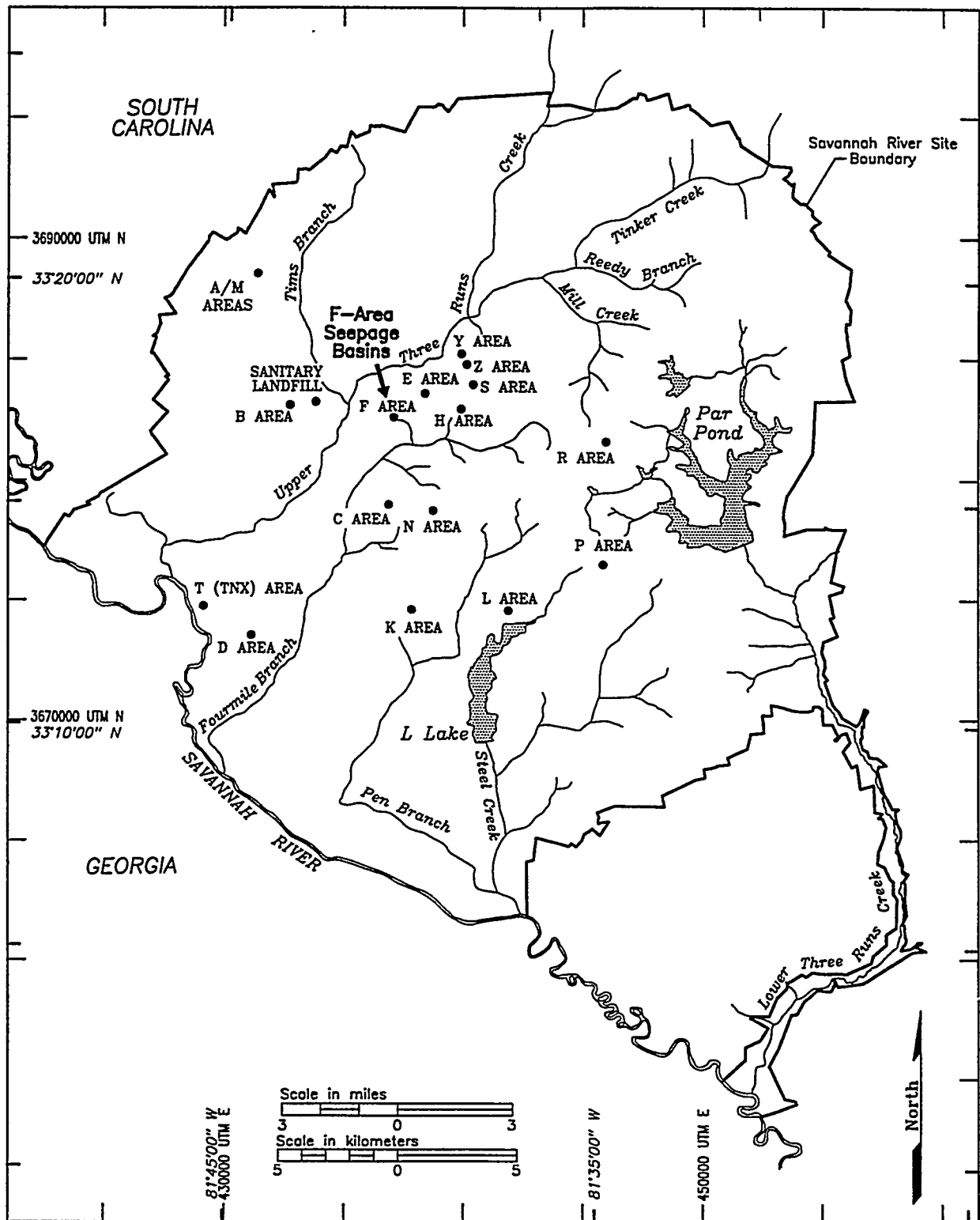


Figure 1. Location of the F-Area Seepage Basins at the Savannah River Site

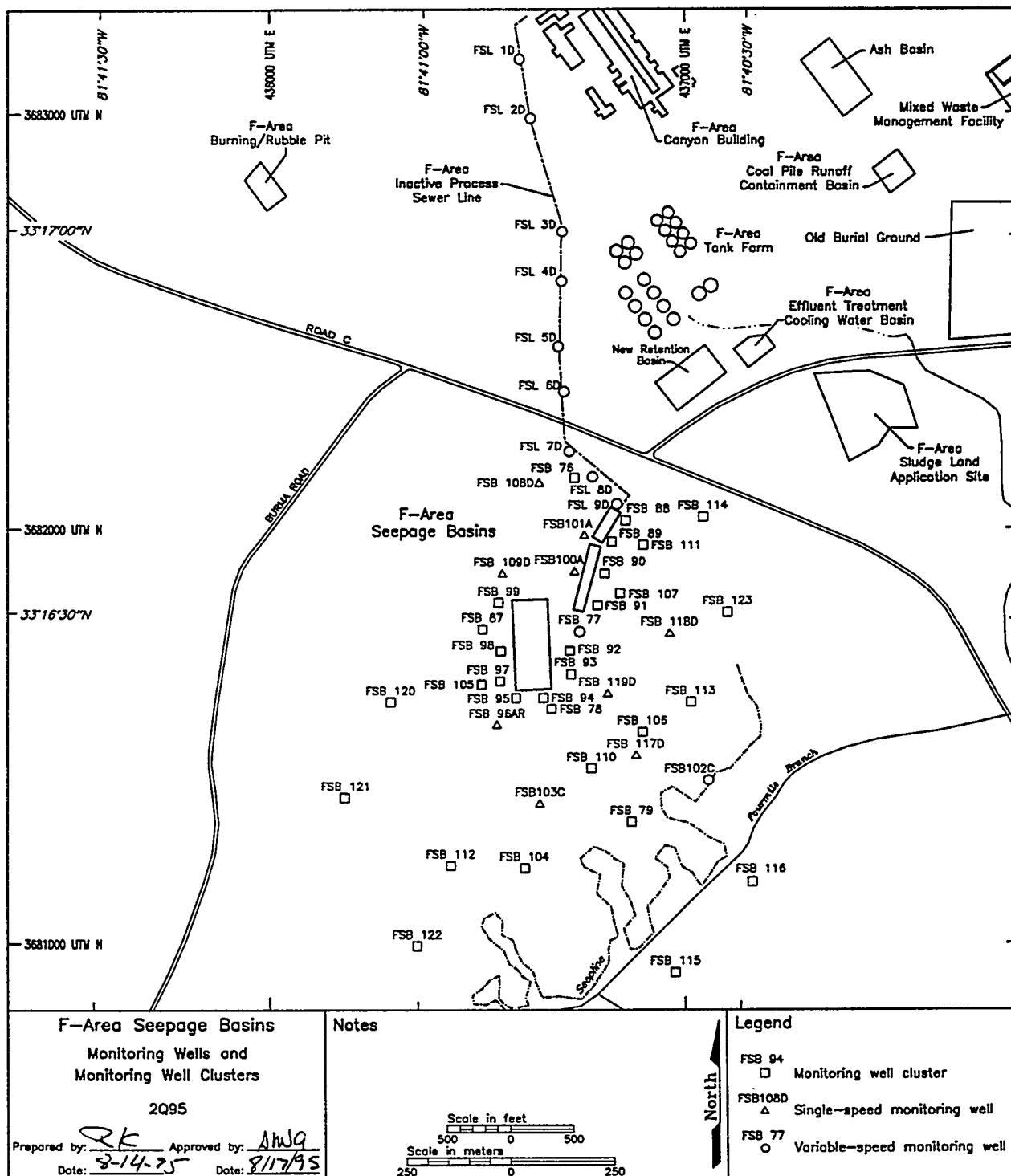


Figure 2. Location of the Groundwater Monitoring Wells at the F-Area Seepage Basins

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					
	Santee Limestone Formation						
	Warley Hill Formation			Confining Unit IIA-IIB			
	Congaree/ Fishburne Formations			Aquifer Unit IIA			
	Williamsburg Formation			Confining System I-II			
	Ellenton Formation						

Figure 3. Hydrostratigraphic Nomenclature

SIPLE (1967)		SRS BASELINE HYDROGEOLOGIC STUDY		GEOTRANS (1988)	AUCOTT (1987)	DUPONT (1989)	AADLAND AND BLEDSOE (1990)																																																																																																																																																																																																																																																																																																
HAWTHORNE AQUIFER	UPLAND UNIT		BARNWELL AQUIFER	AGBARRON UPPER DRY BRANCH FM	AQUIFER 4	TERTIARY SAND AQUIFER	ZONE 8	AQUIFER UNIT I/IIc	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT IIB	AQUIFER UNIT IIA	AQUIFER UNIT 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Figure 4. Regional Correlation of Hydrostratigraphic and Lithostratigraphic Nomenclatures

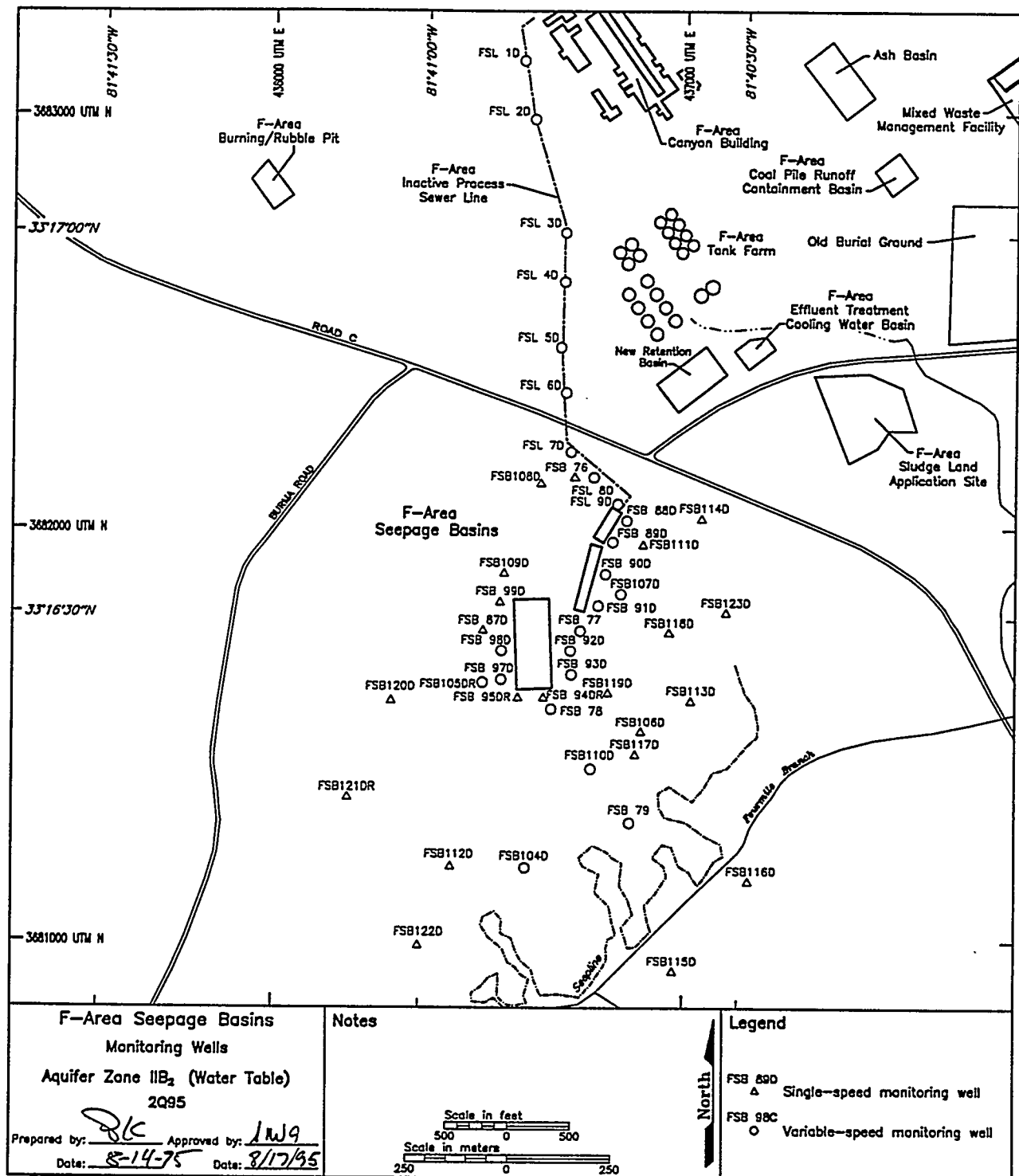


Figure 5. Location of Aquifer Zone IIB₂ (Water Table) Monitoring Wells at the F-Area Seepage Basins

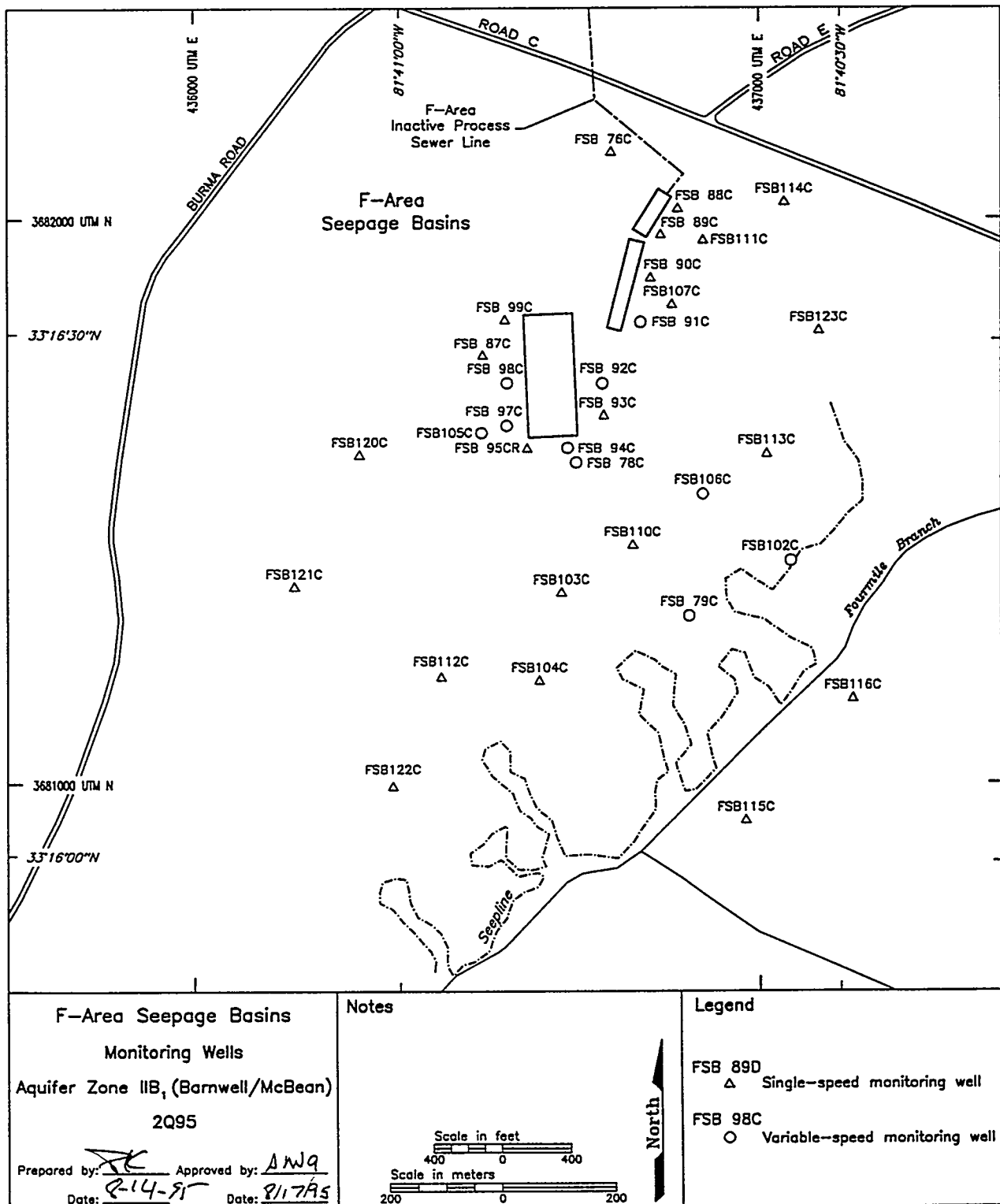


Figure 6. Location of Aquifer Zone IIB₁ (Barnwell/McBean) Monitoring Wells at the F-Area Seepage Basins

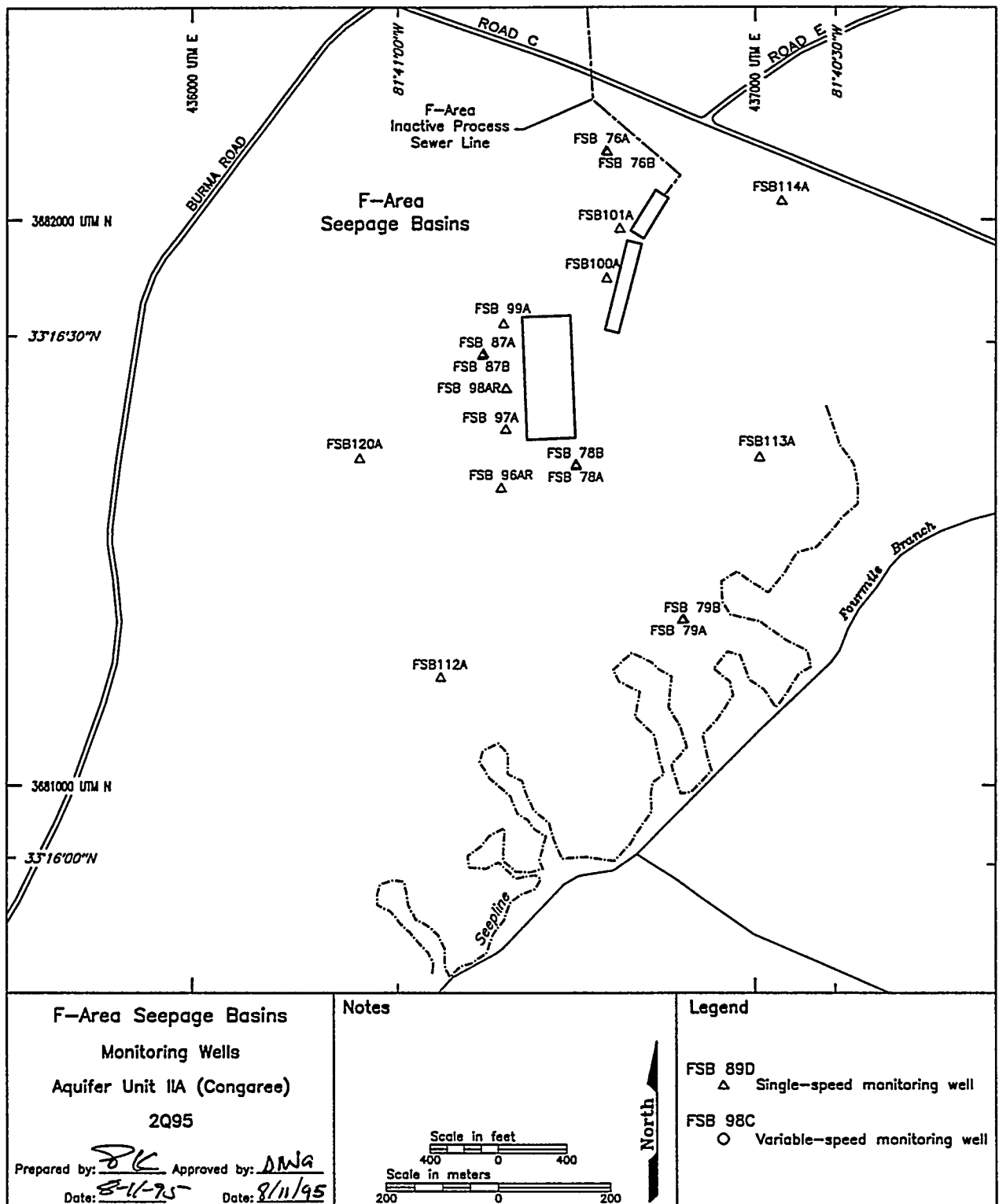


Figure 7. Location of Aquifer Unit IIA (Congaree) Monitoring Wells at the F-Area Seepage Basins

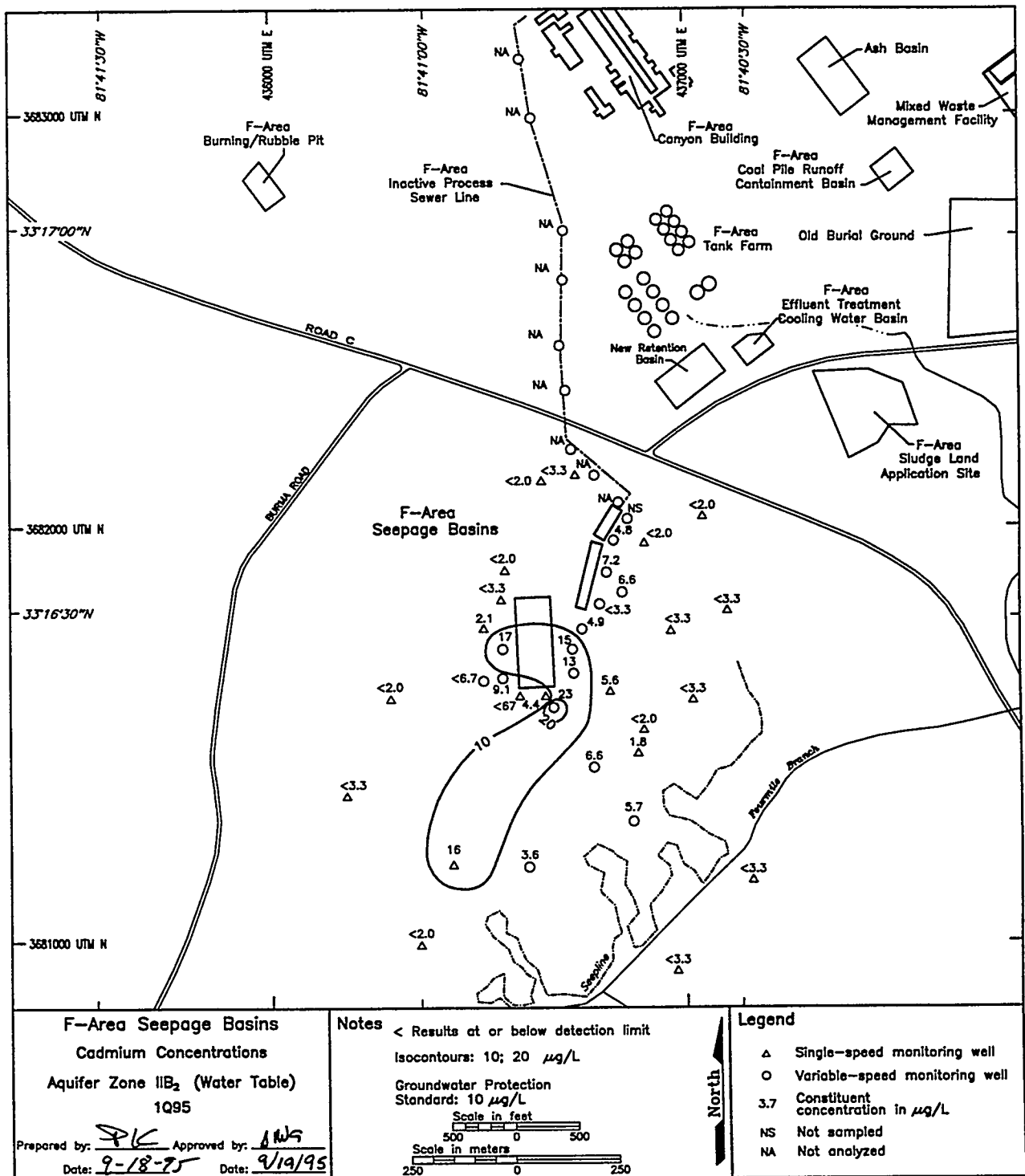


Figure 8. Cadmium Concentrations in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

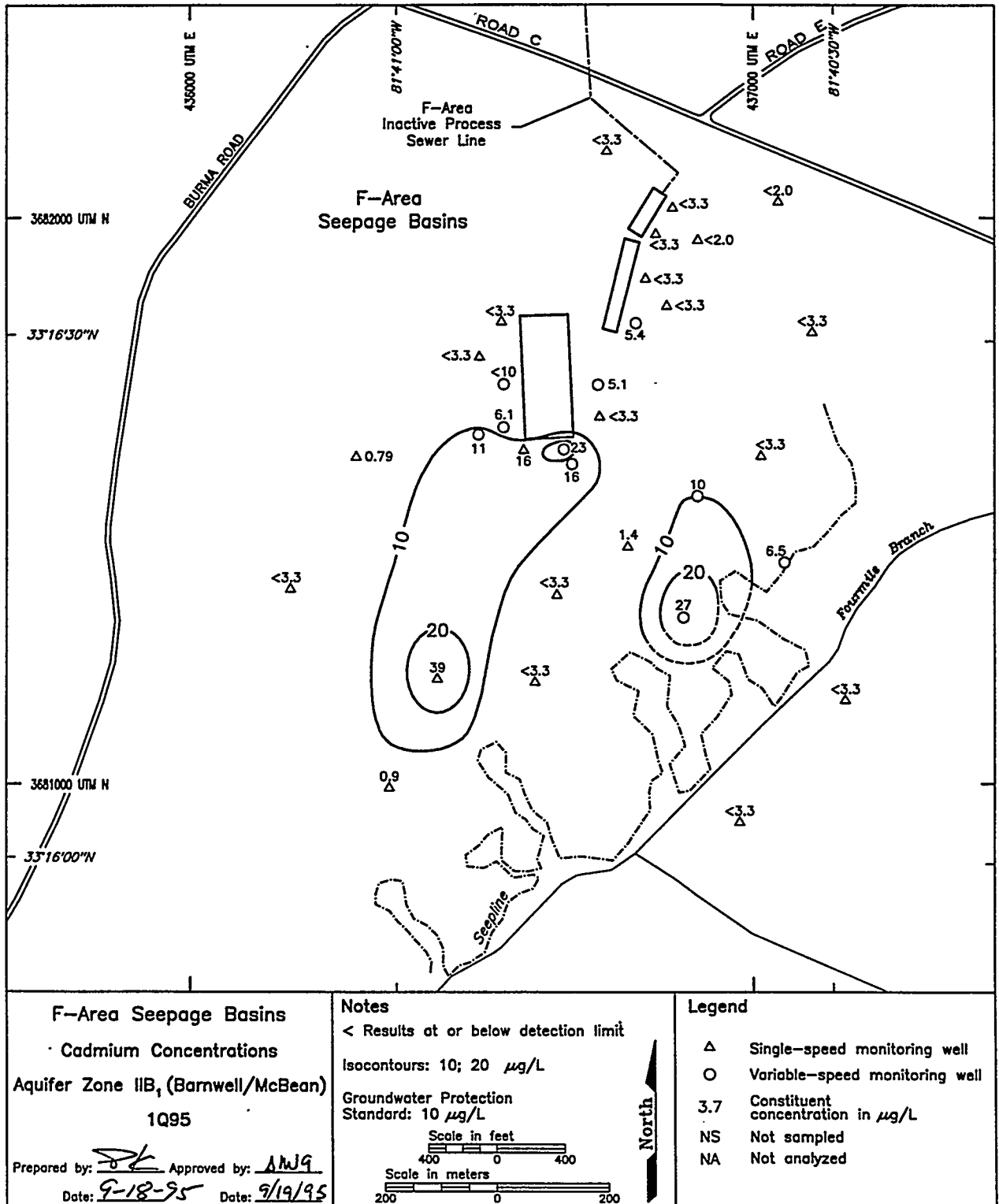


Figure 9. Cadmium Concentrations in Aquifer Zone IIB, (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

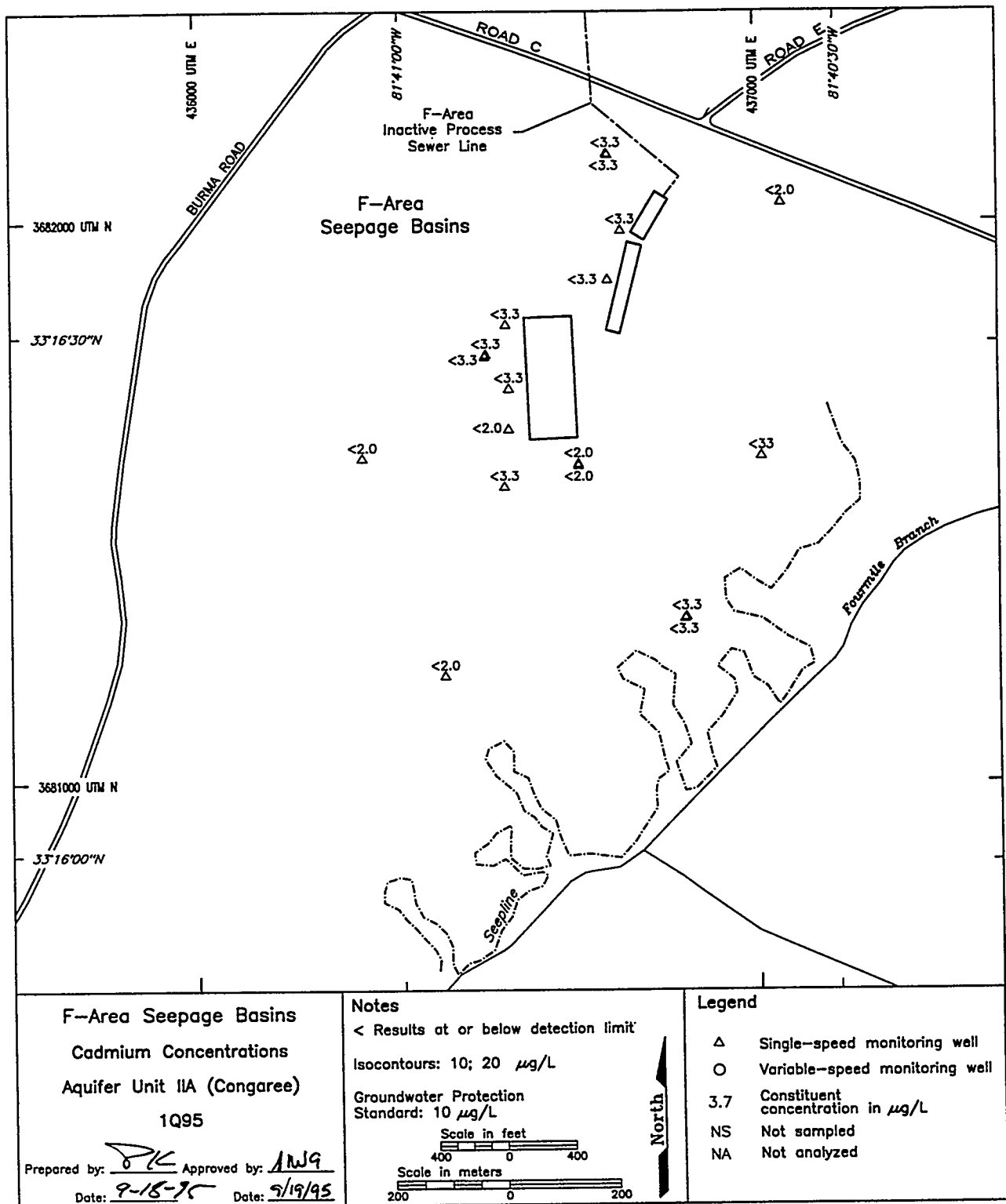


Figure 10. Cadmium Concentrations in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

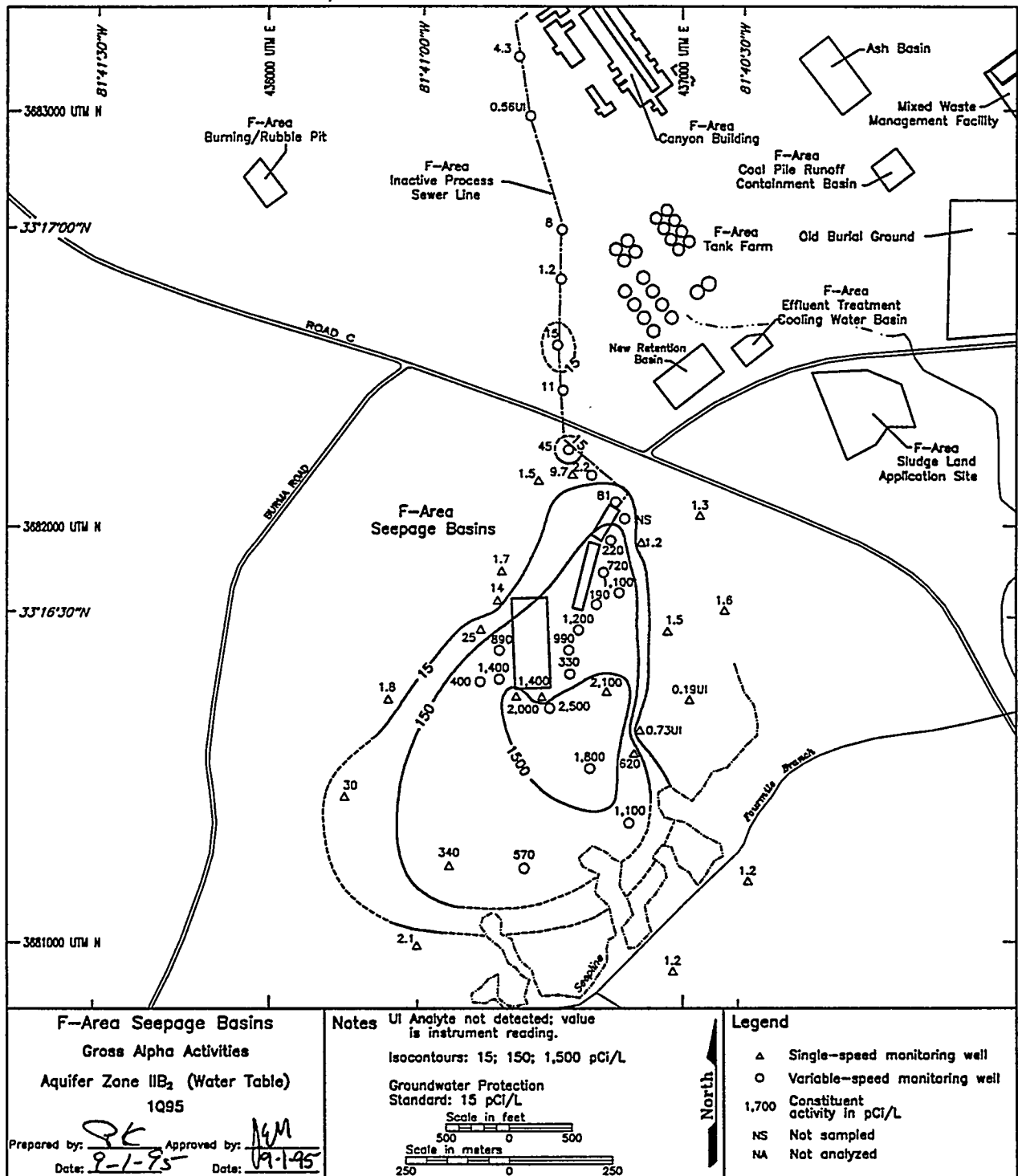


Figure 11. Gross Alpha Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

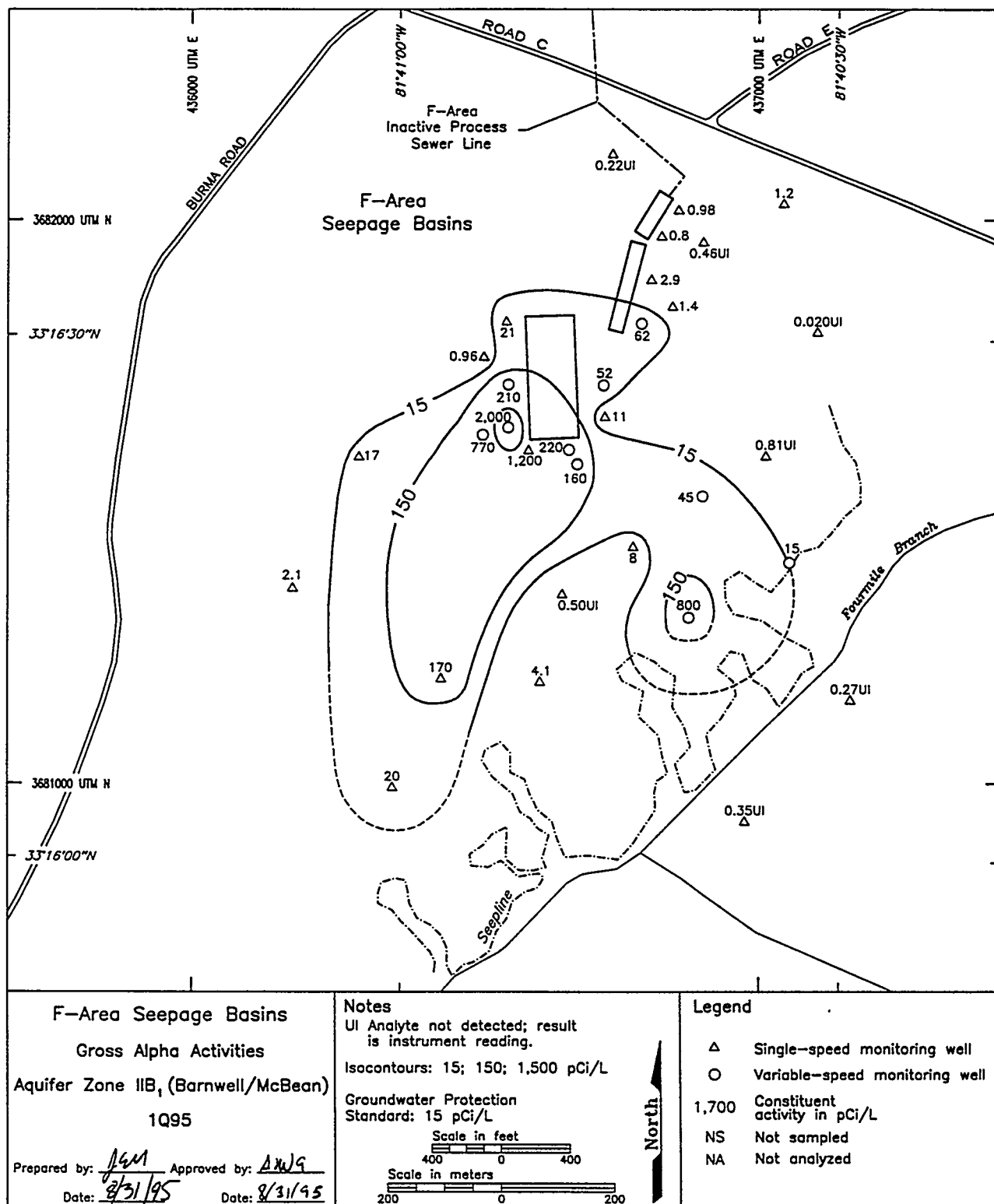


Figure 12. Gross Alpha Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

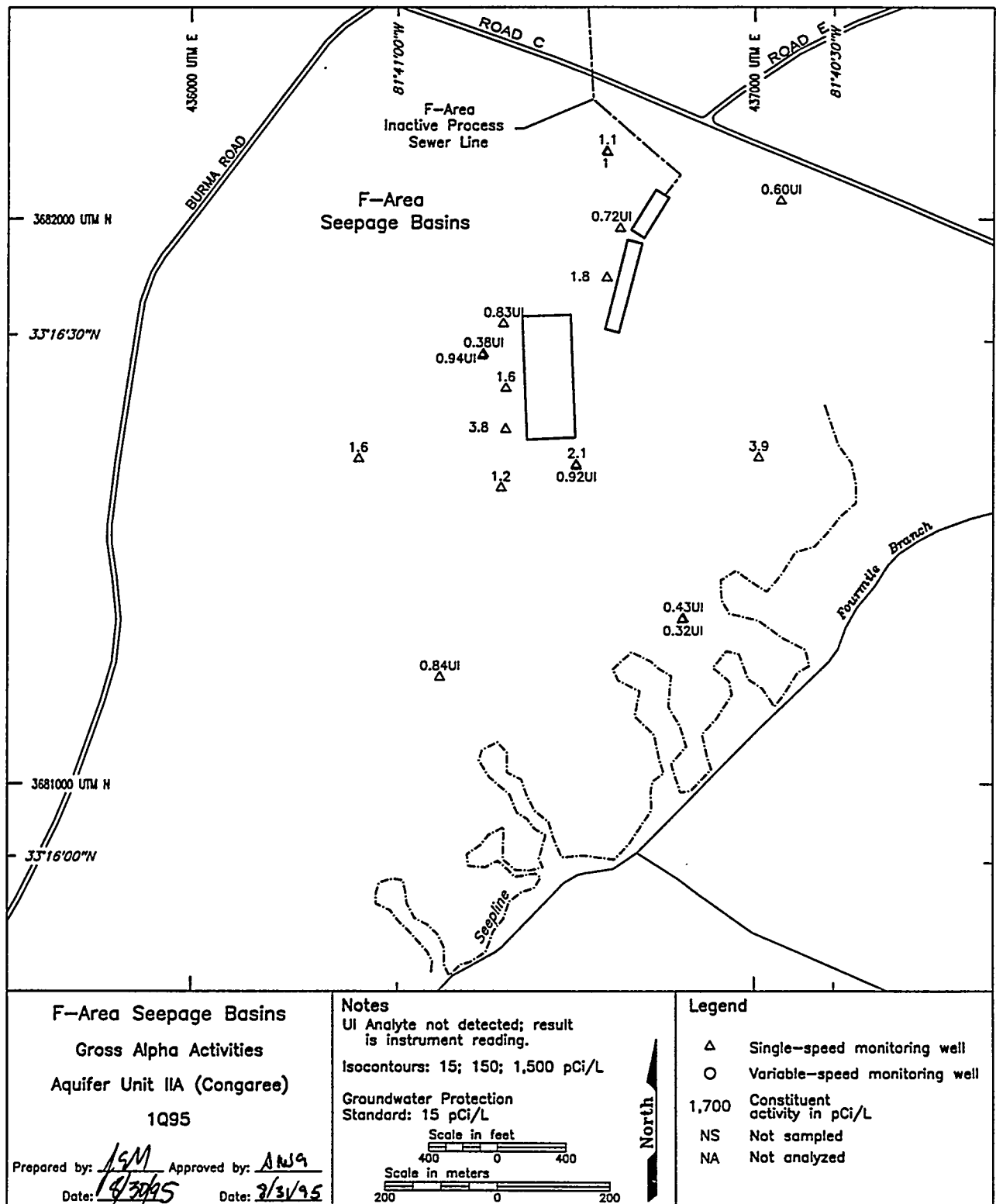


Figure 13. Gross Alpha Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

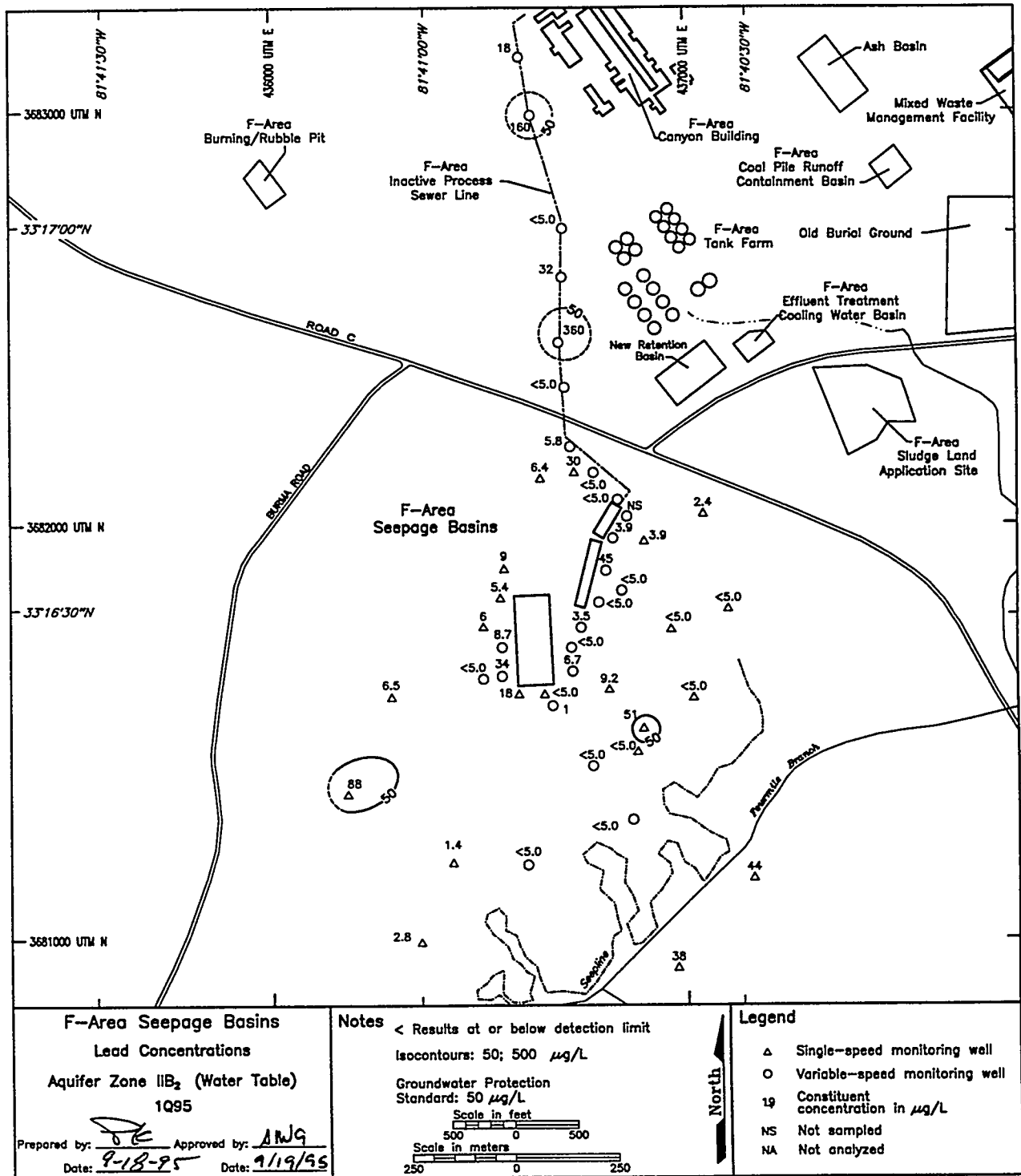


Figure 14. Lead Concentrations in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

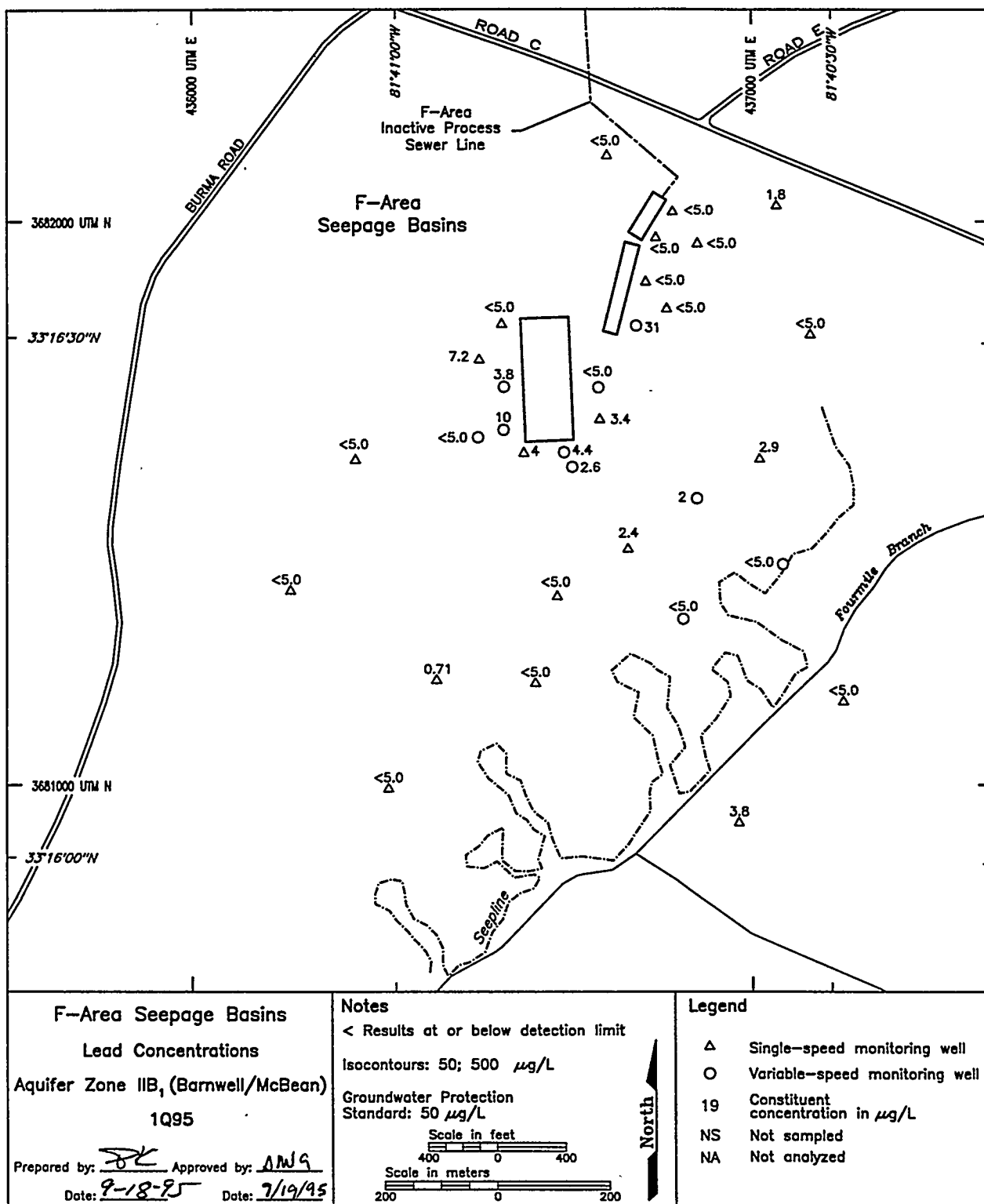


Figure 15. Lead Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

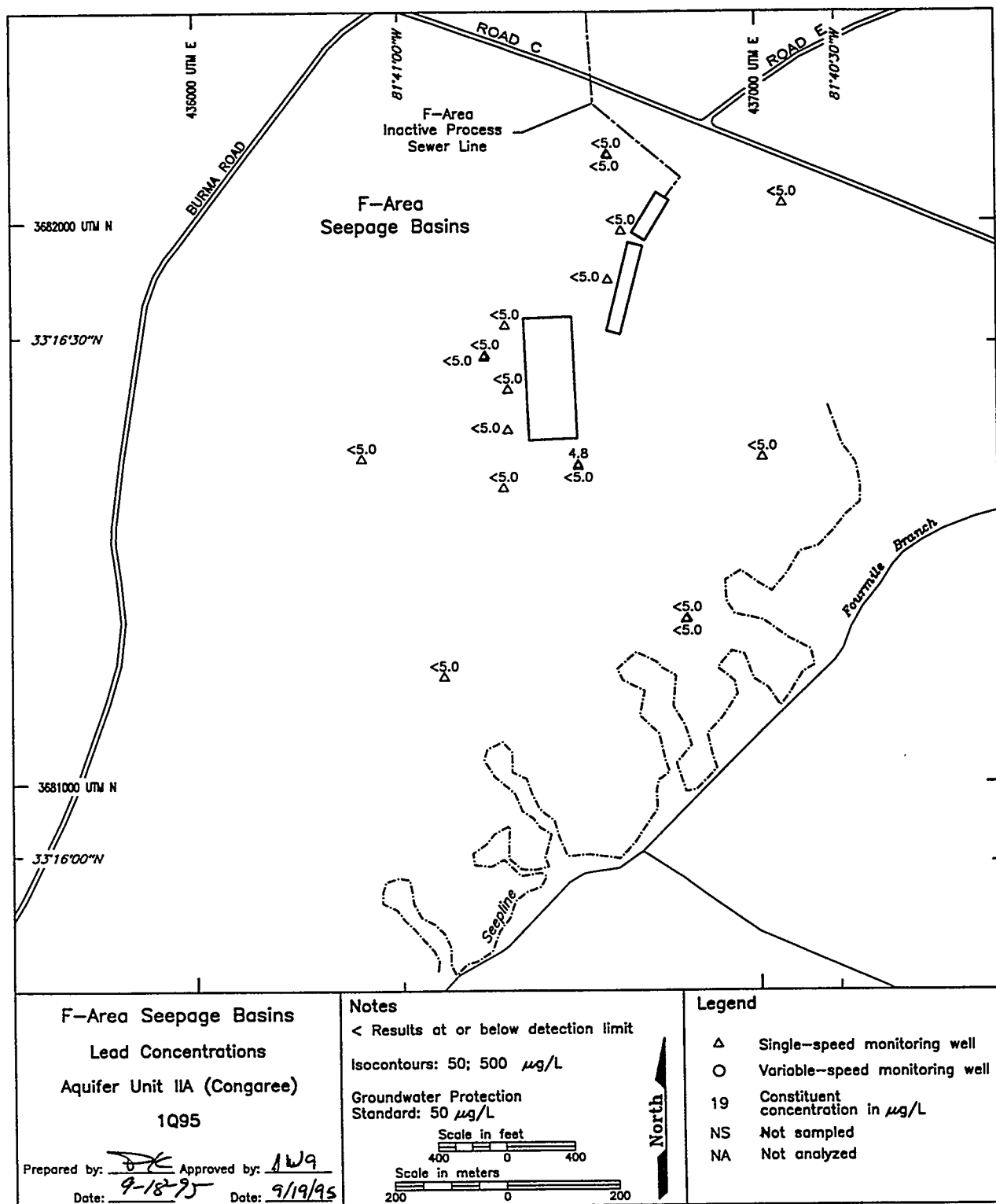


Figure 16. Lead Concentrations in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

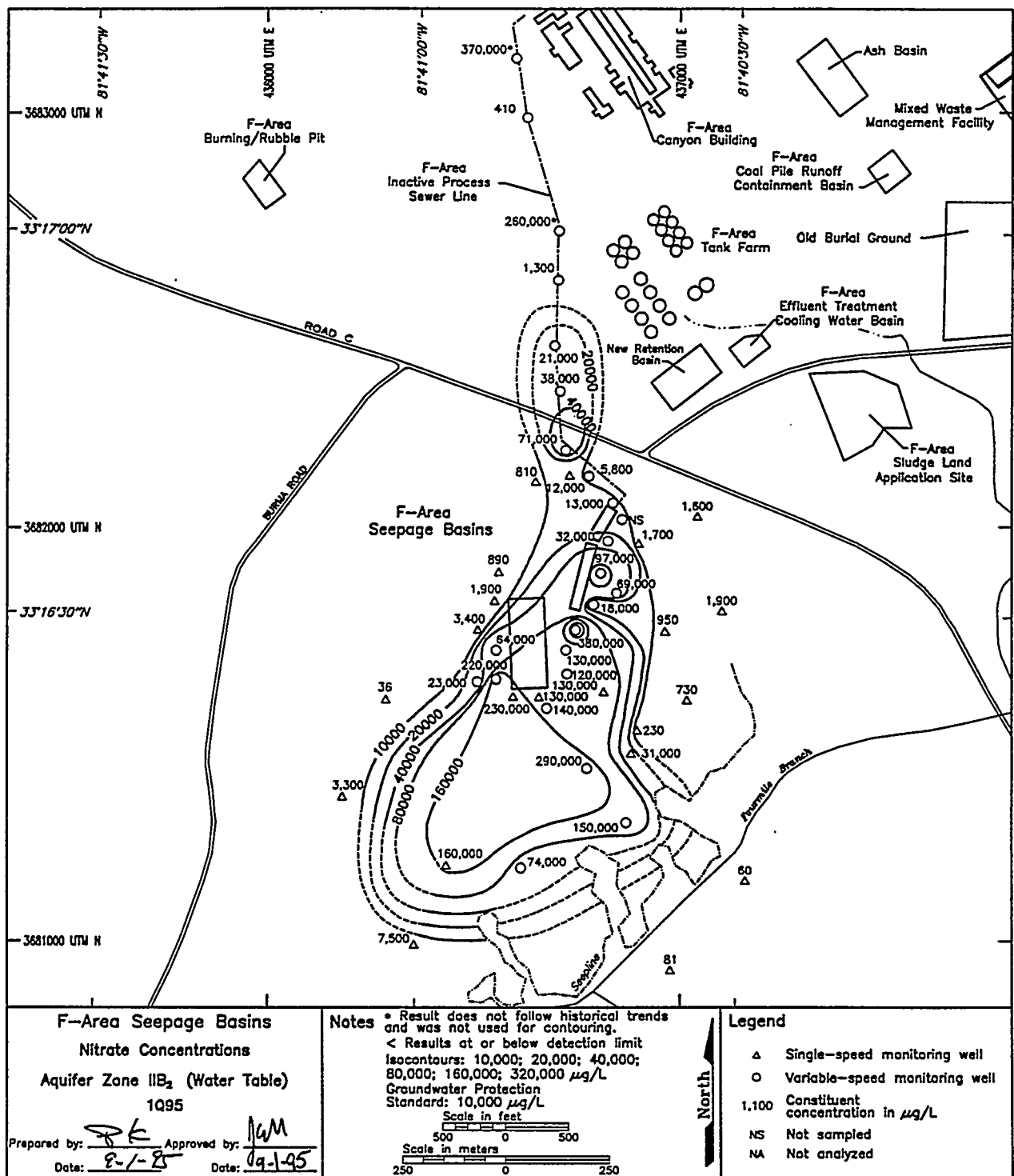


Figure 17. Nitrate Concentrations in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

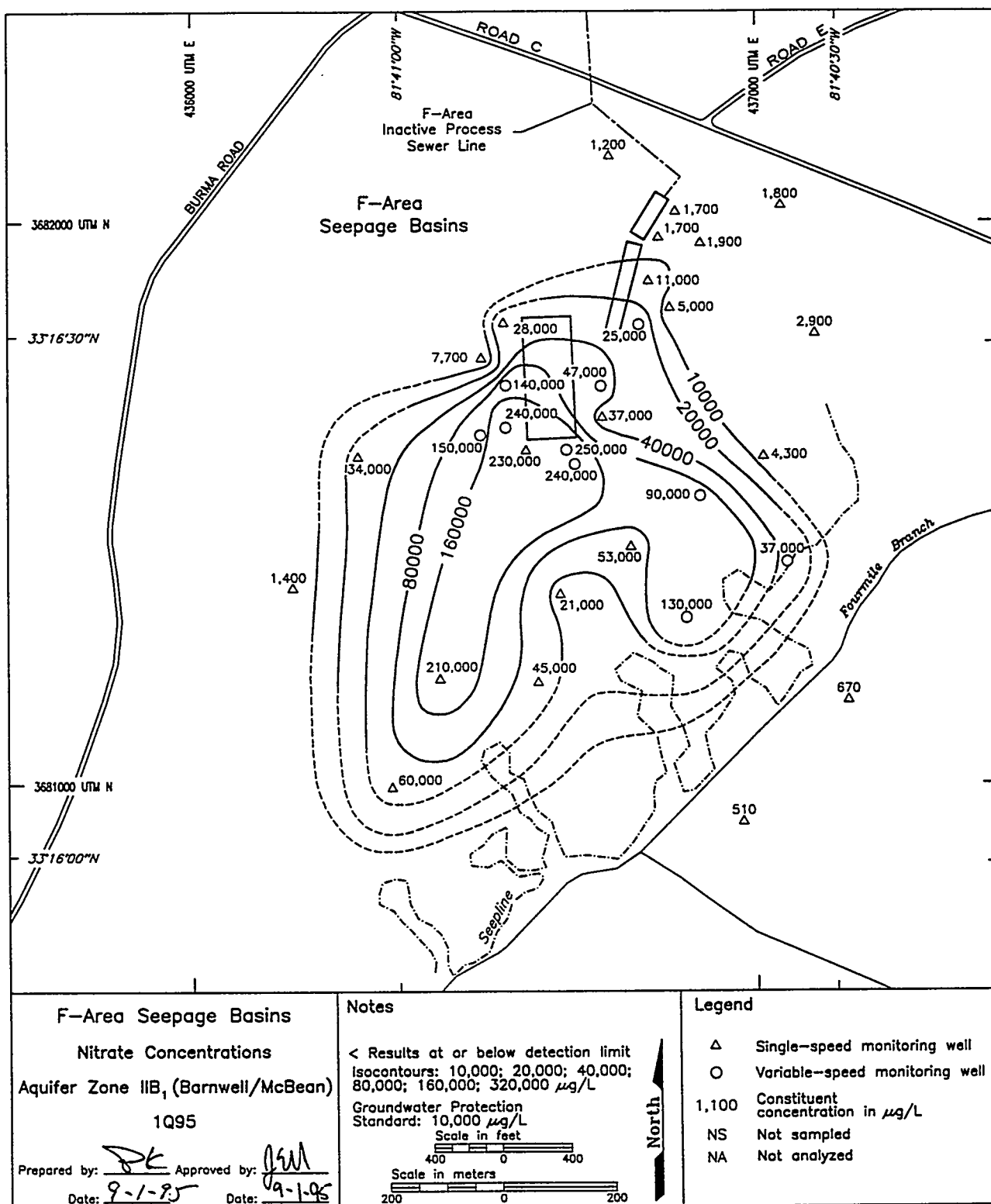


Figure 18. Nitrate Concentrations in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

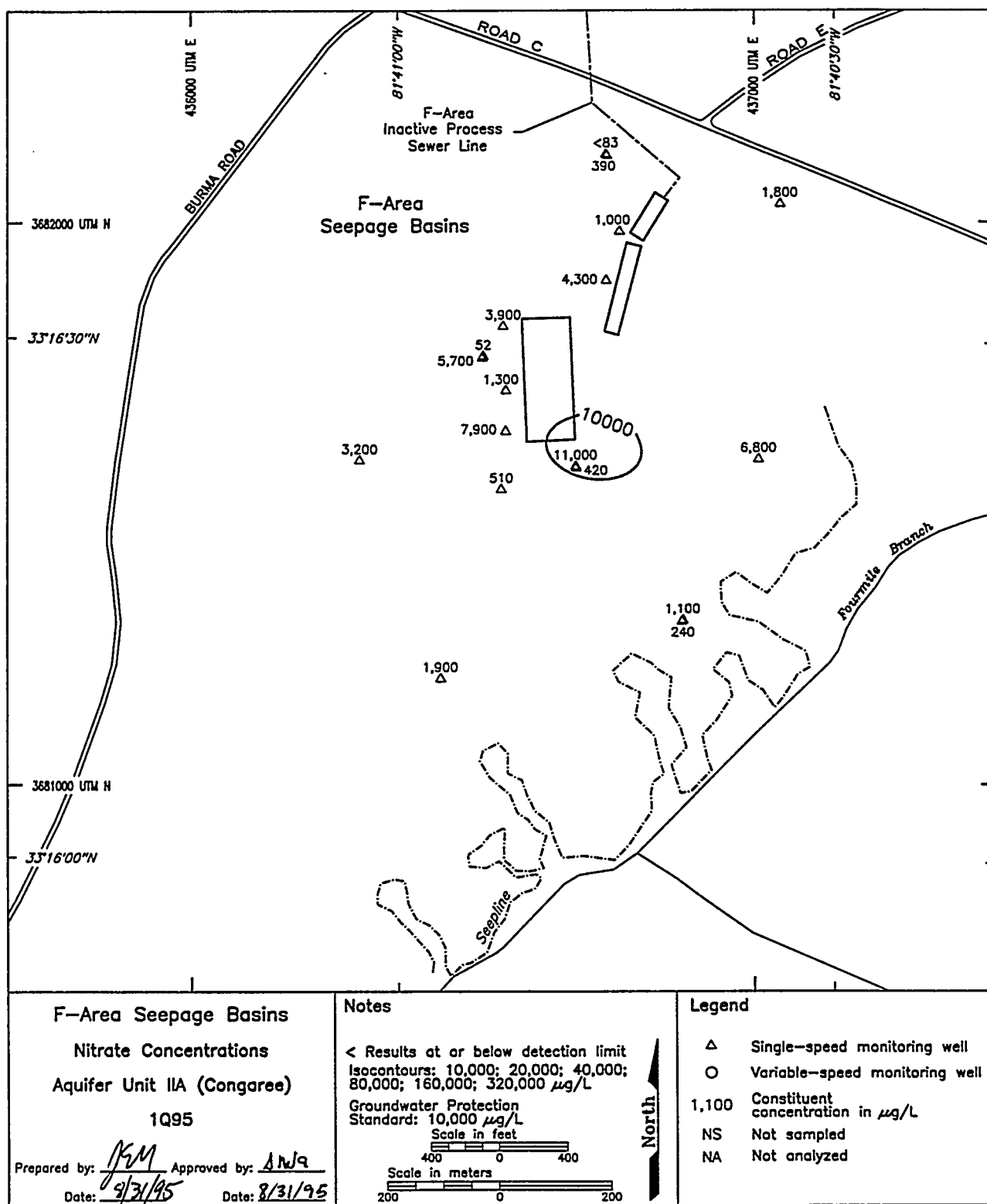


Figure 19. Nitrate Concentrations in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

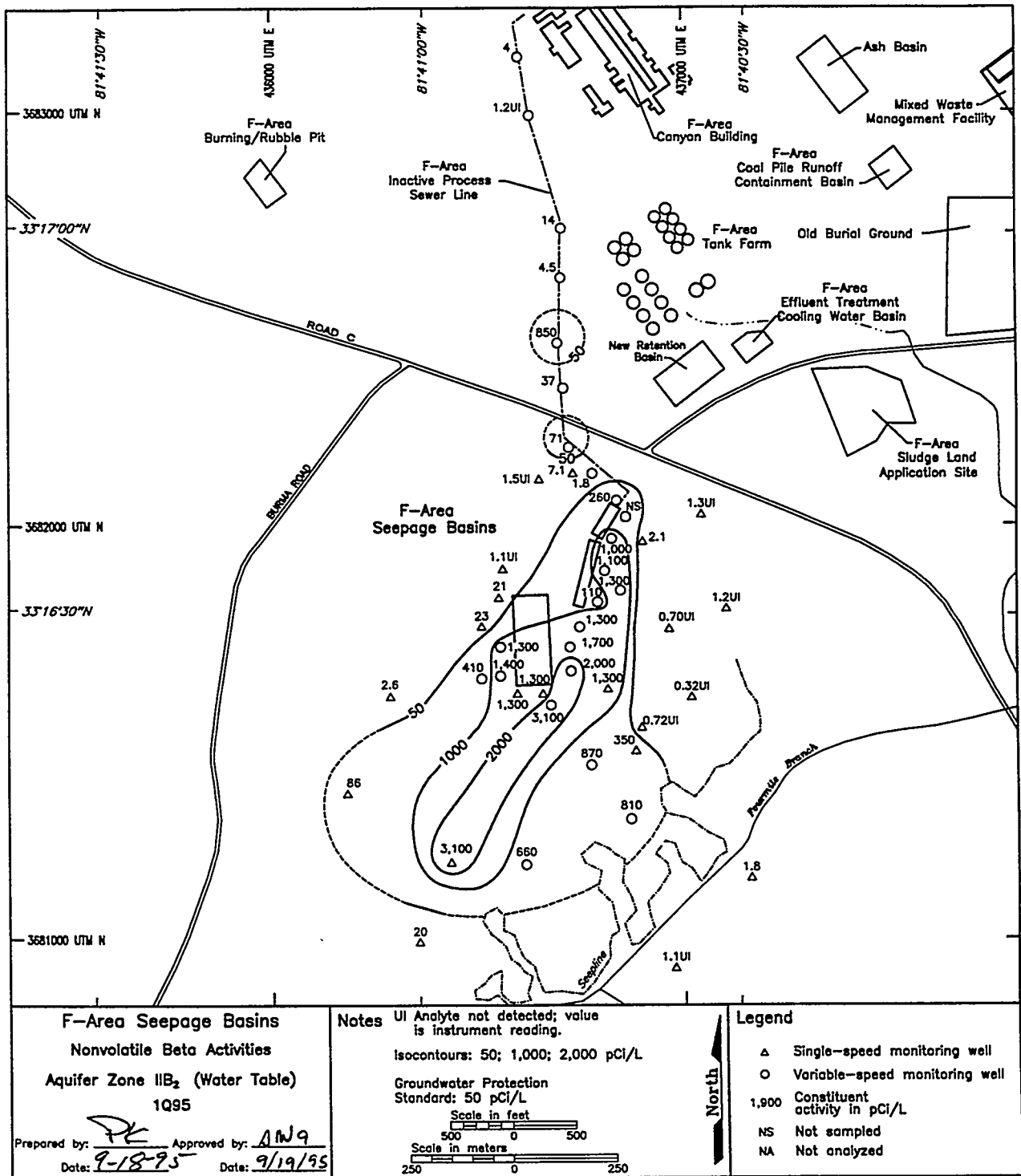


Figure 20. Nonvolatile Beta Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

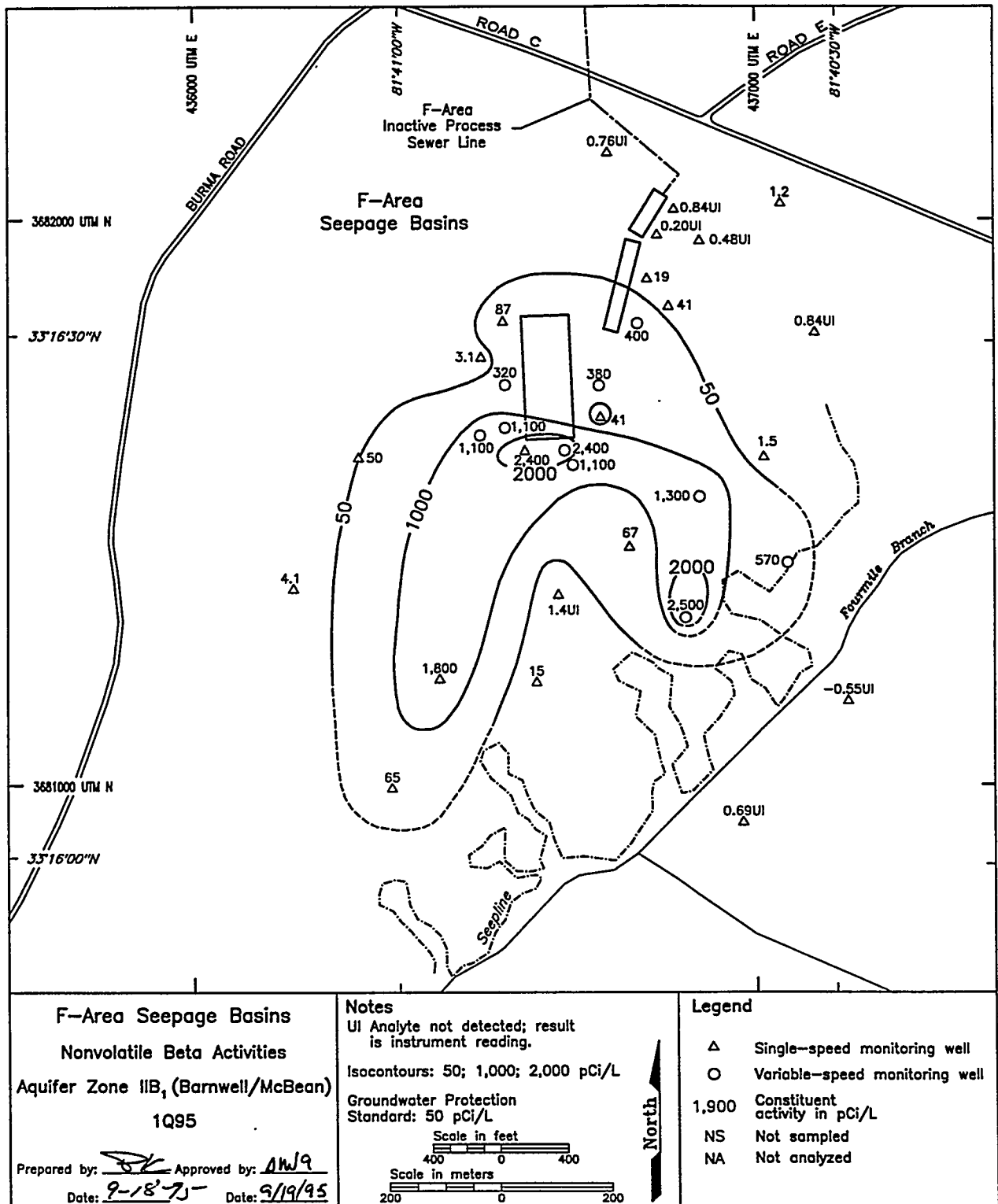


Figure 21. Nonvolatile Beta Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

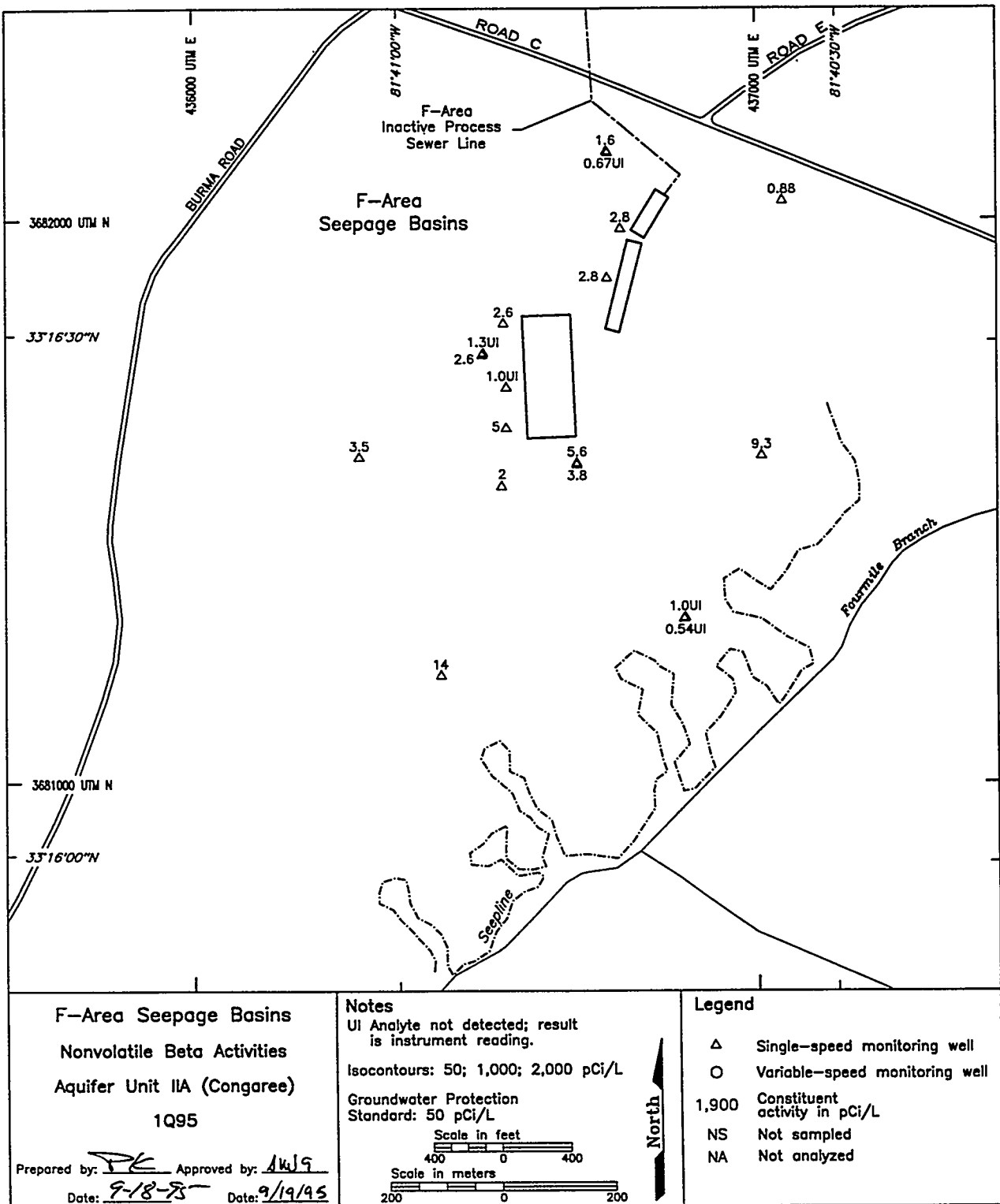


Figure 22. Nonvolatile Beta Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

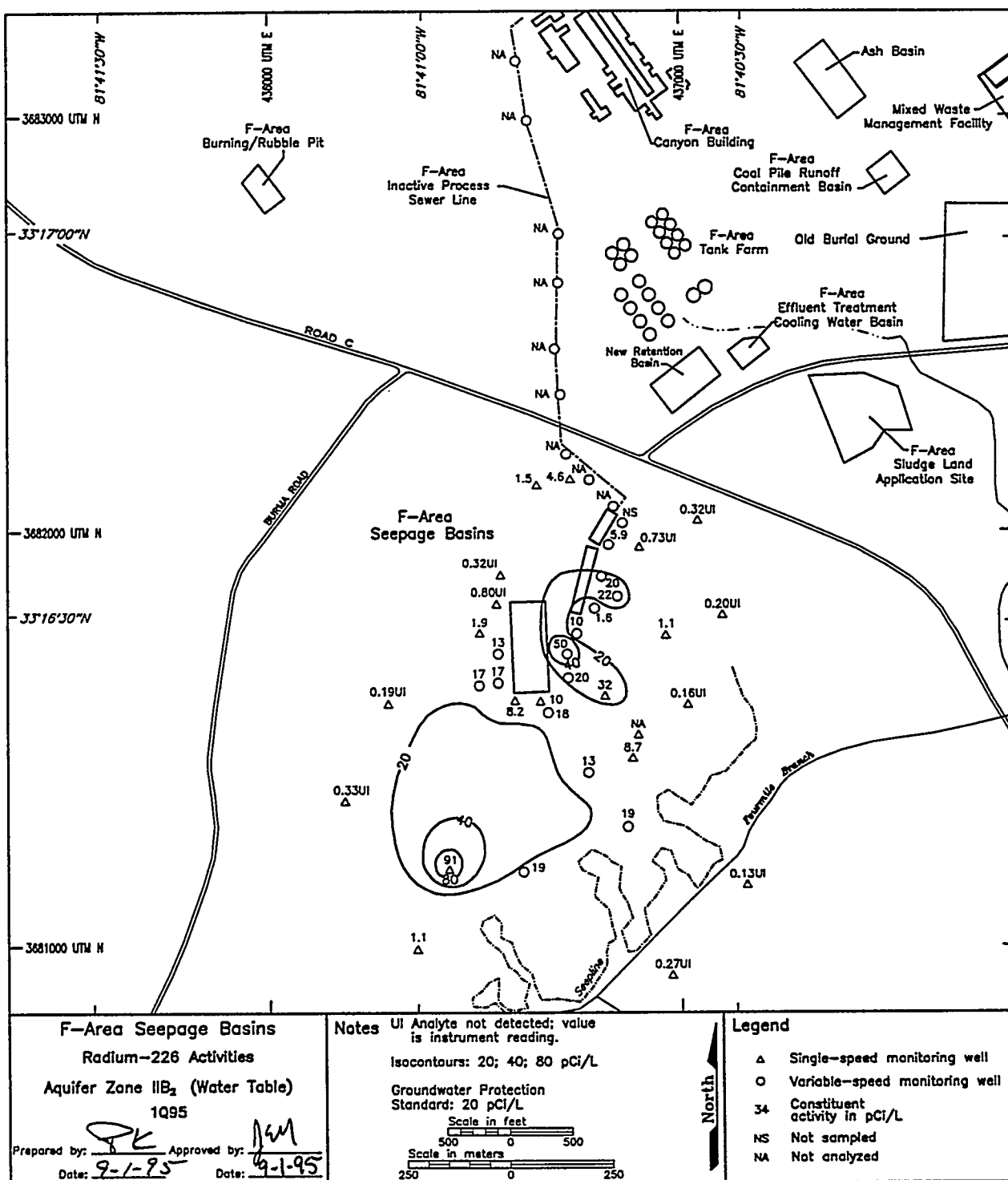


Figure 23. Radium-226 Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

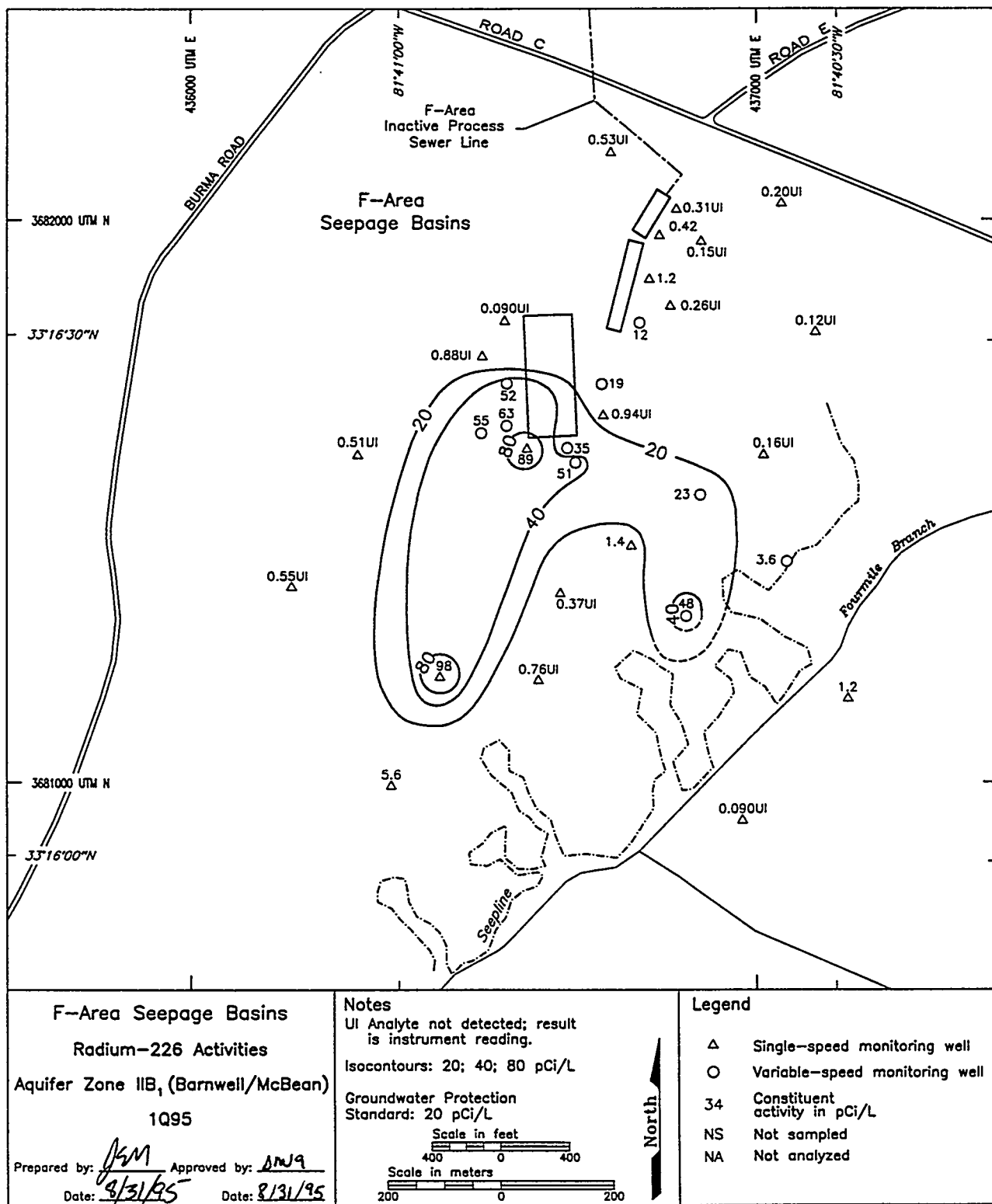


Figure 24. Radium-226 Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

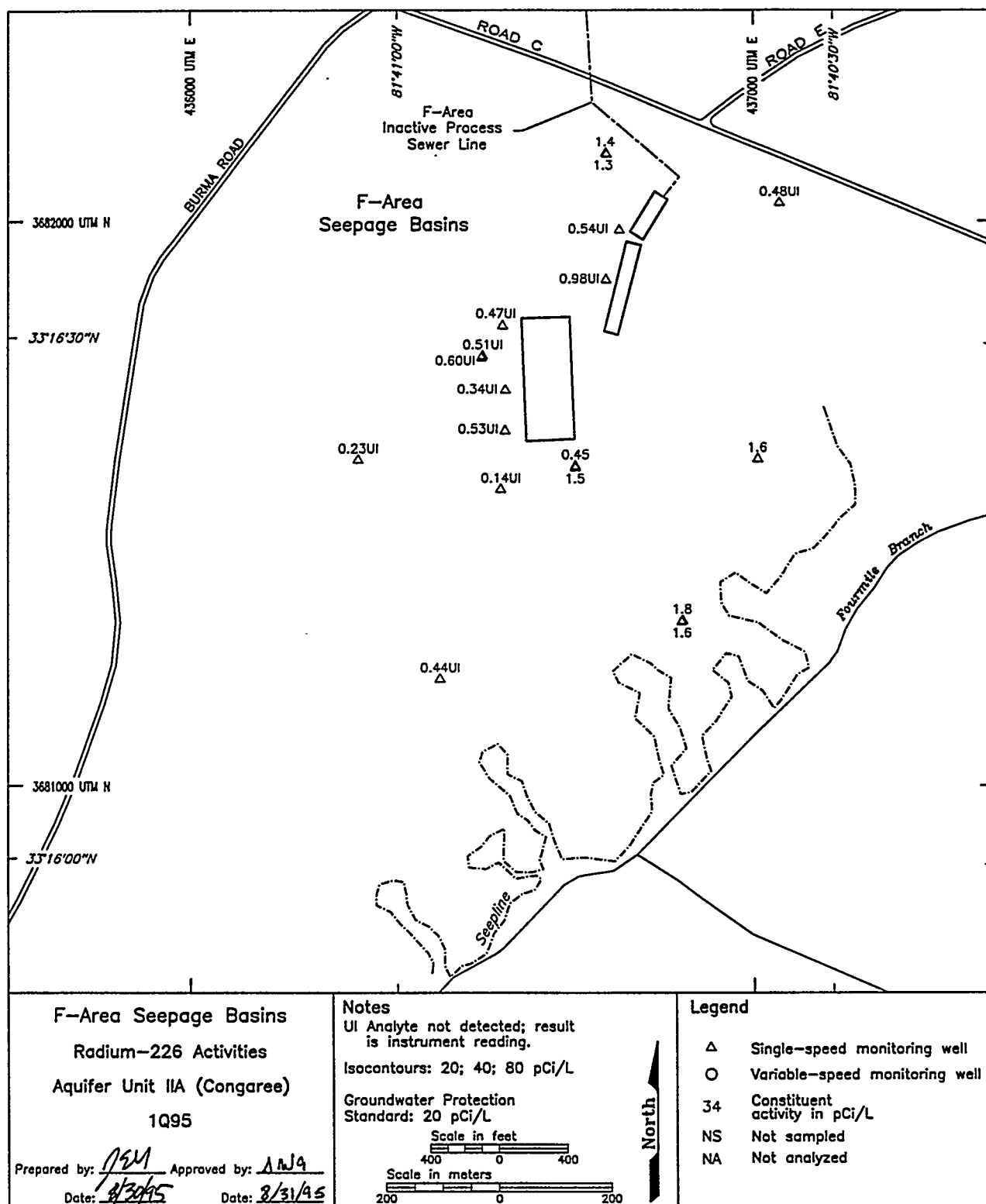


Figure 25. Radium-226 Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

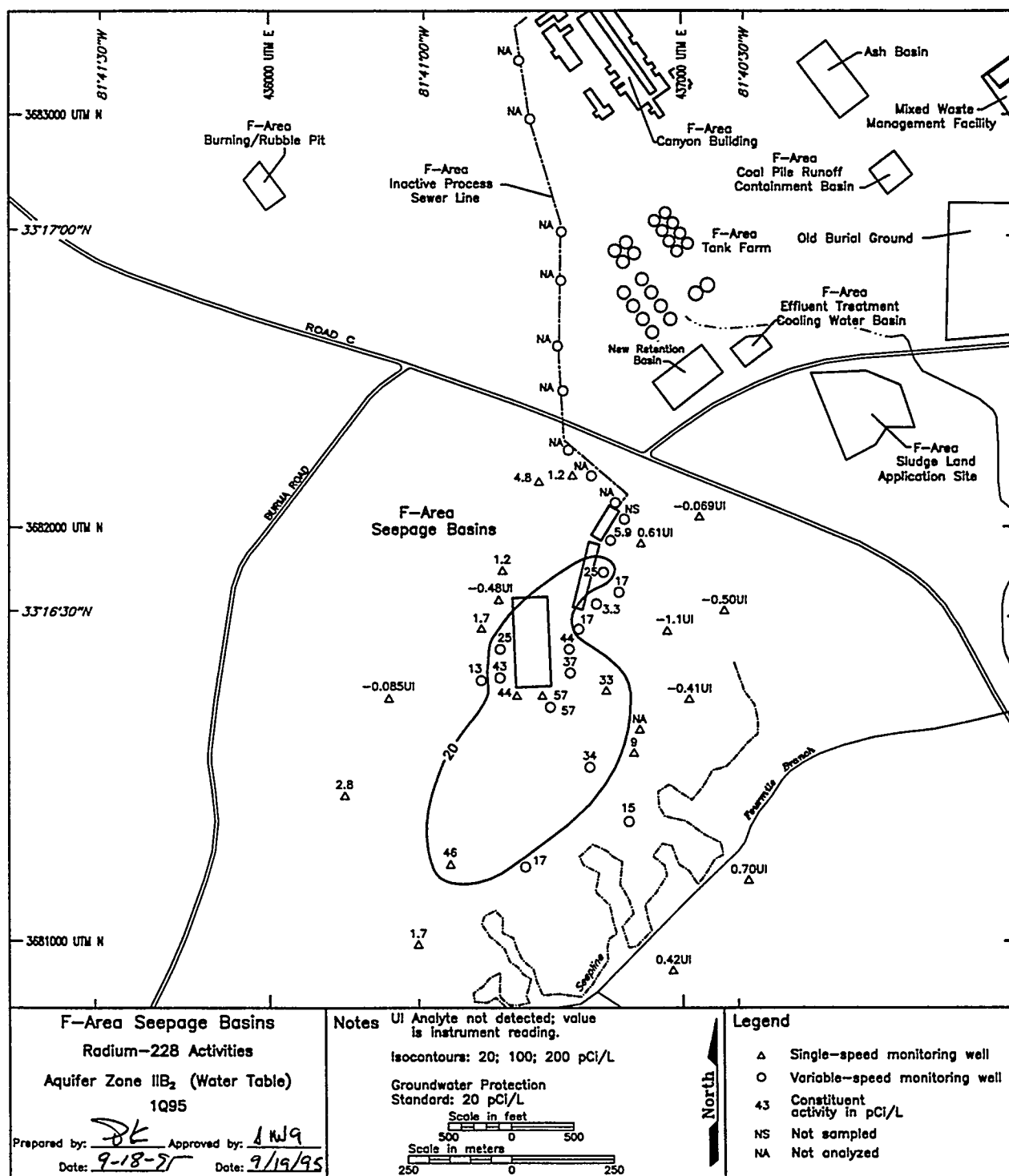


Figure 26. Radium-228 Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

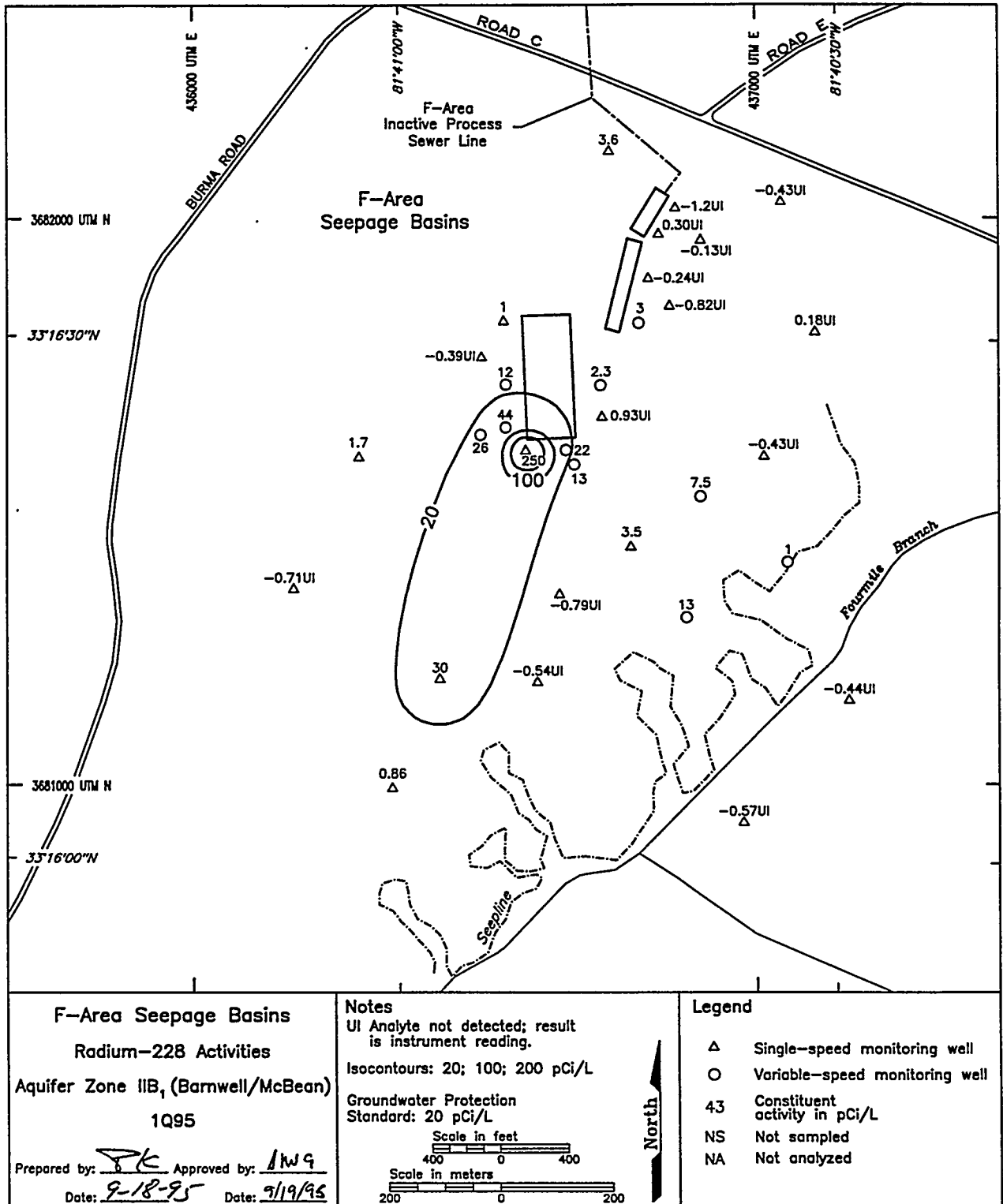


Figure 27. Radium-228 Activities in Aquifer Zone IIB, (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

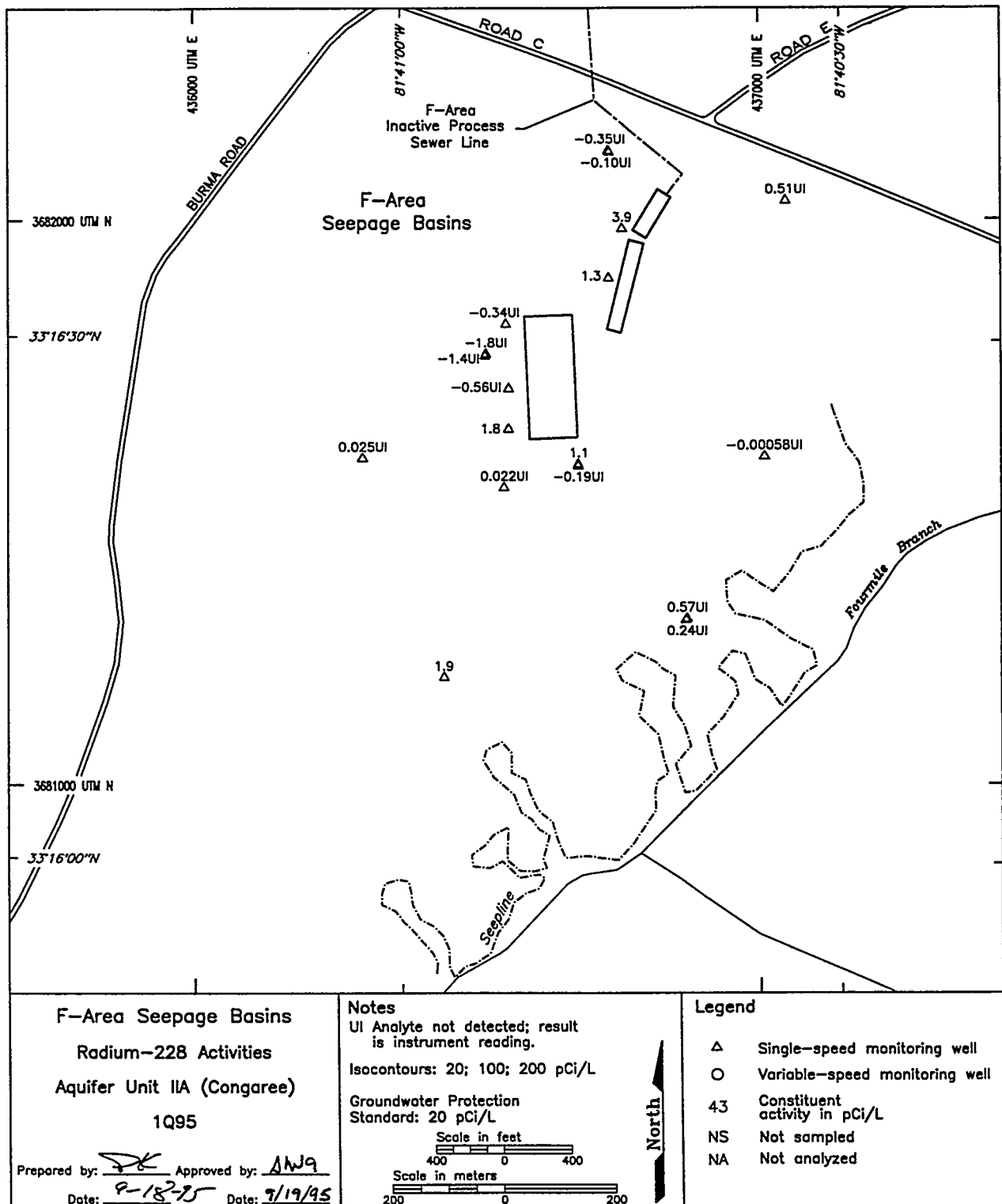


Figure 28. Radium-228 Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

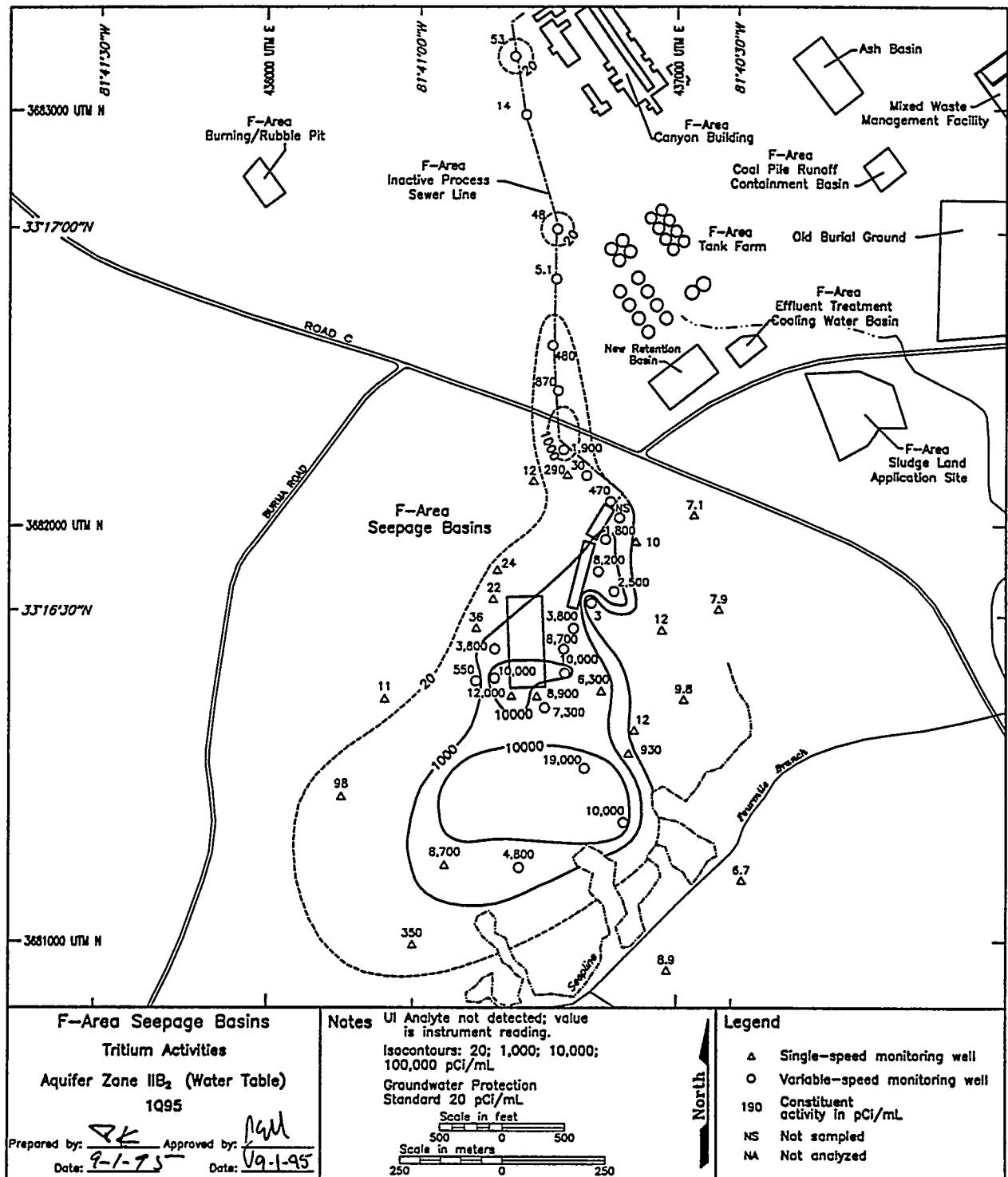


Figure 29. Tritium Activities in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

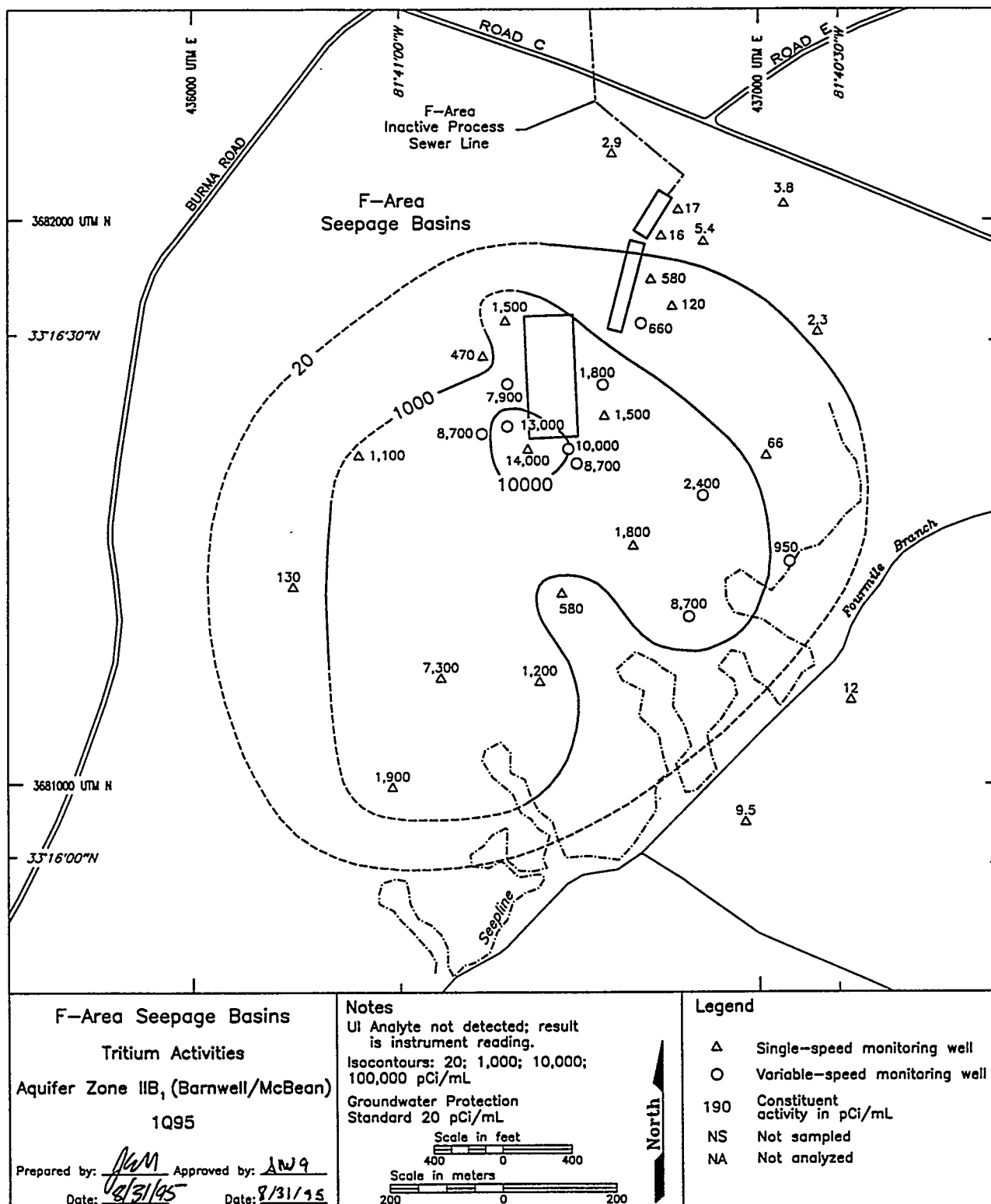


Figure 30. Tritium Activities in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

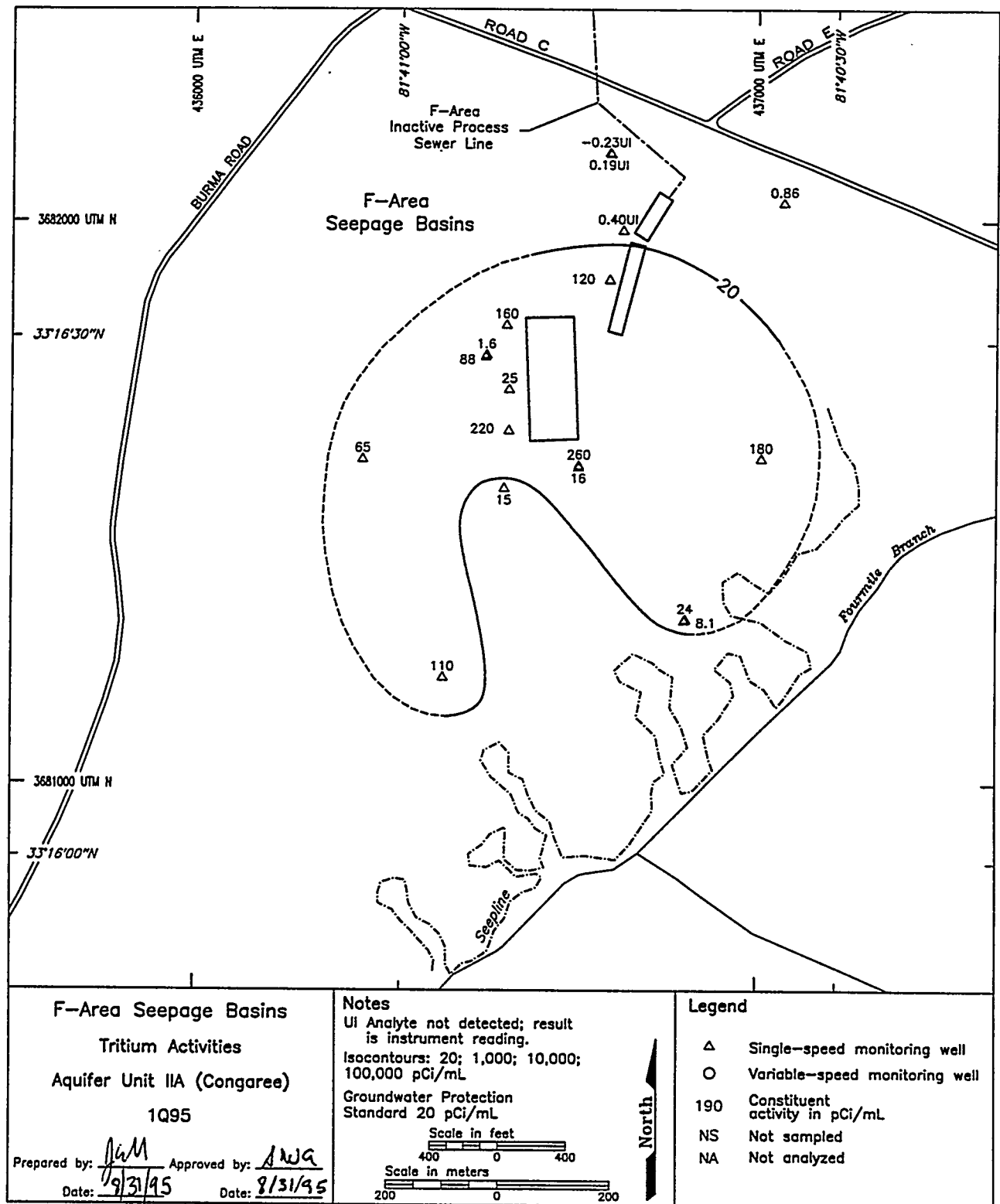


Figure 31. Tritium Activities in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

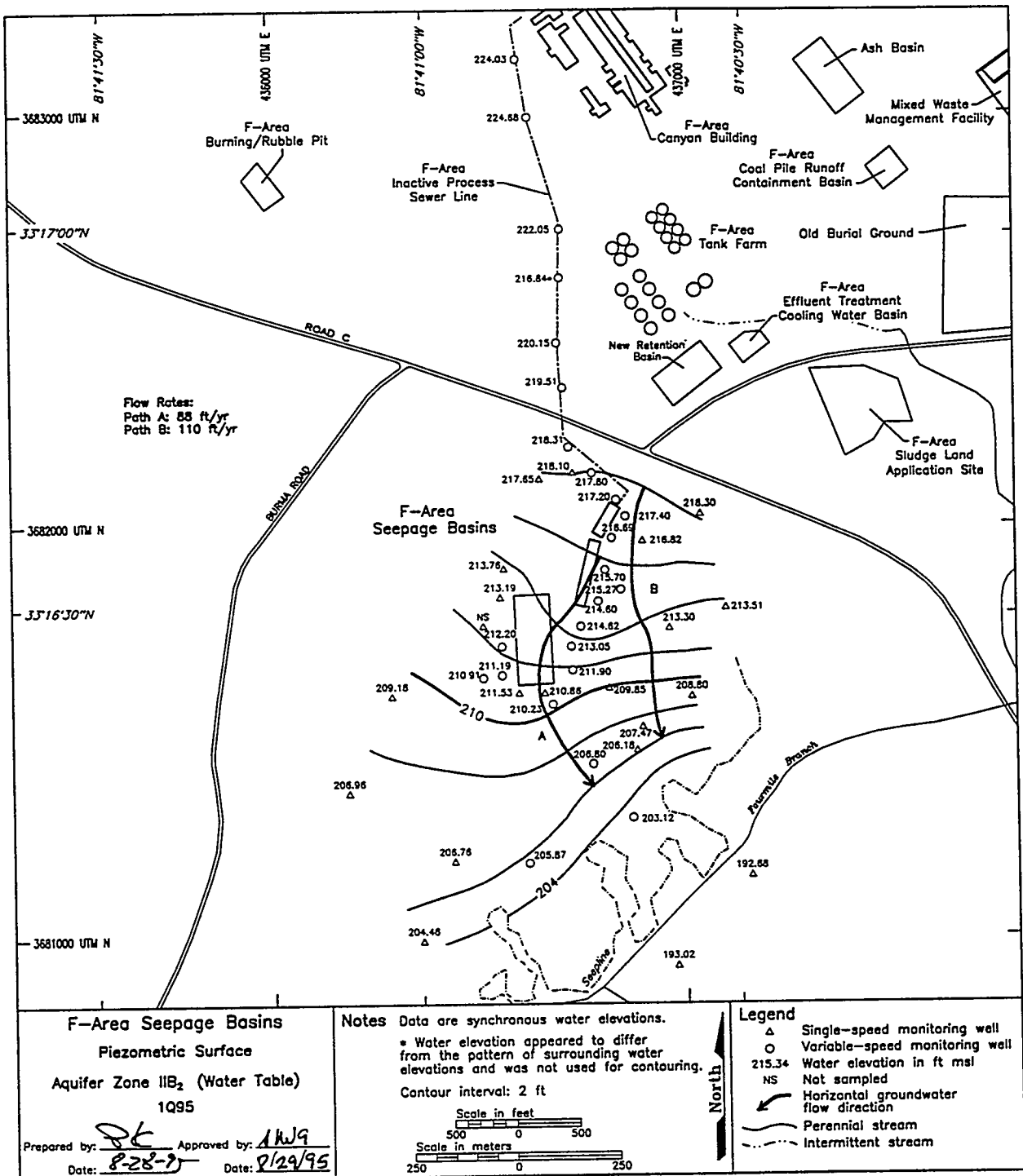


Figure 32. Piezometric Surface Map of Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995



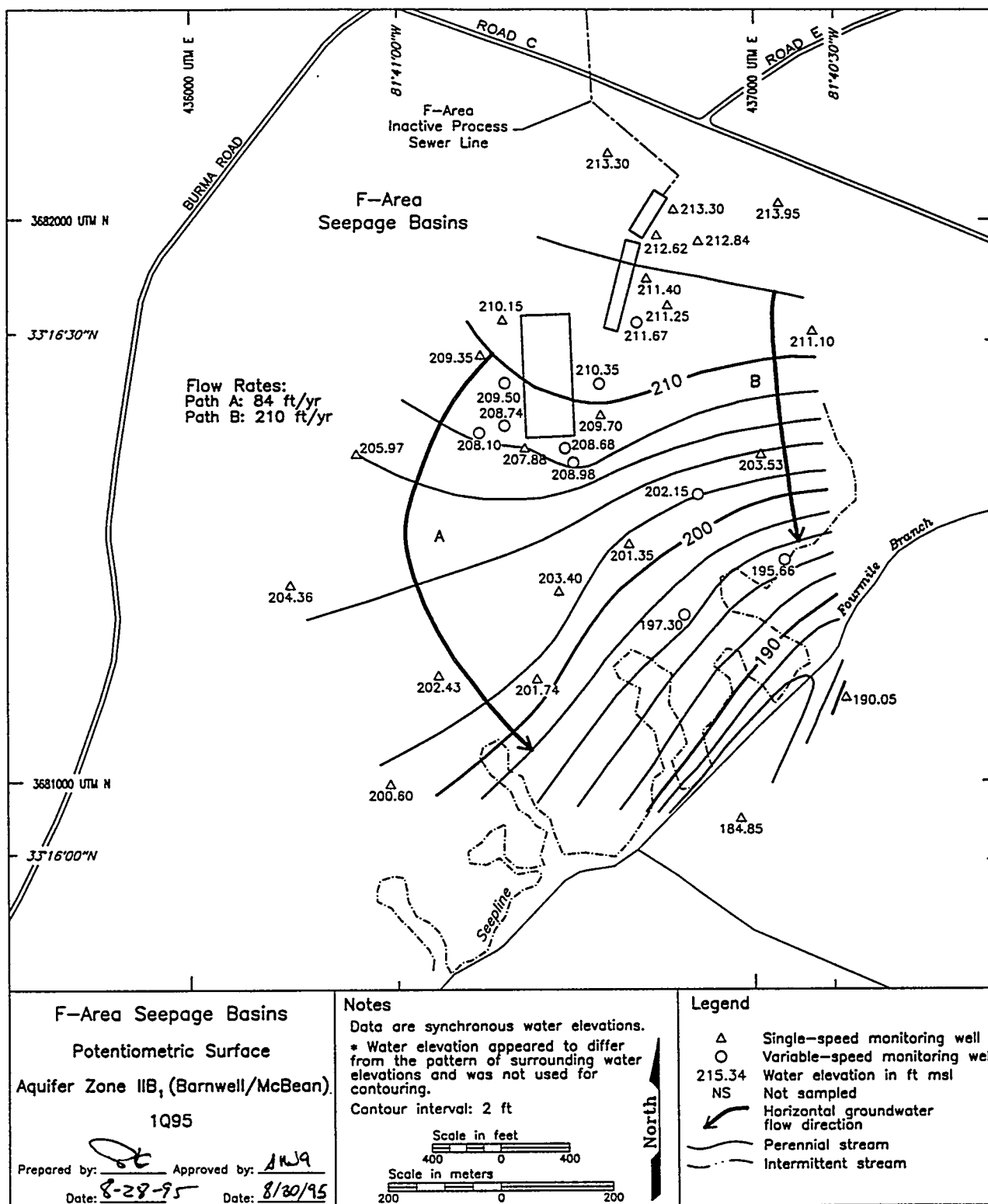


Figure 34. Potentiometric Surface Map of Aquifer Zone IIB, (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

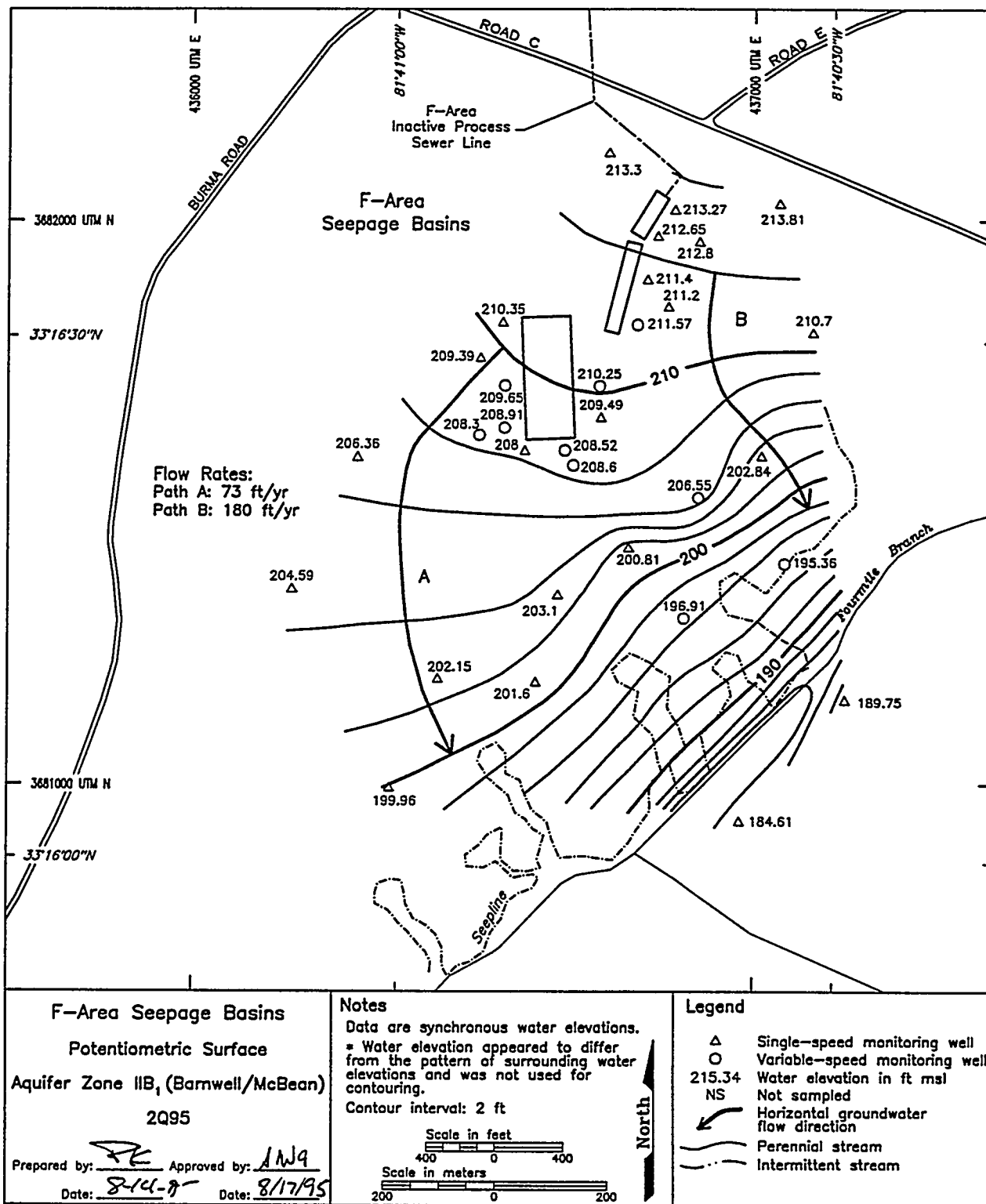


Figure 35. Potentiometric Surface Map of Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, Second Quarter 1995

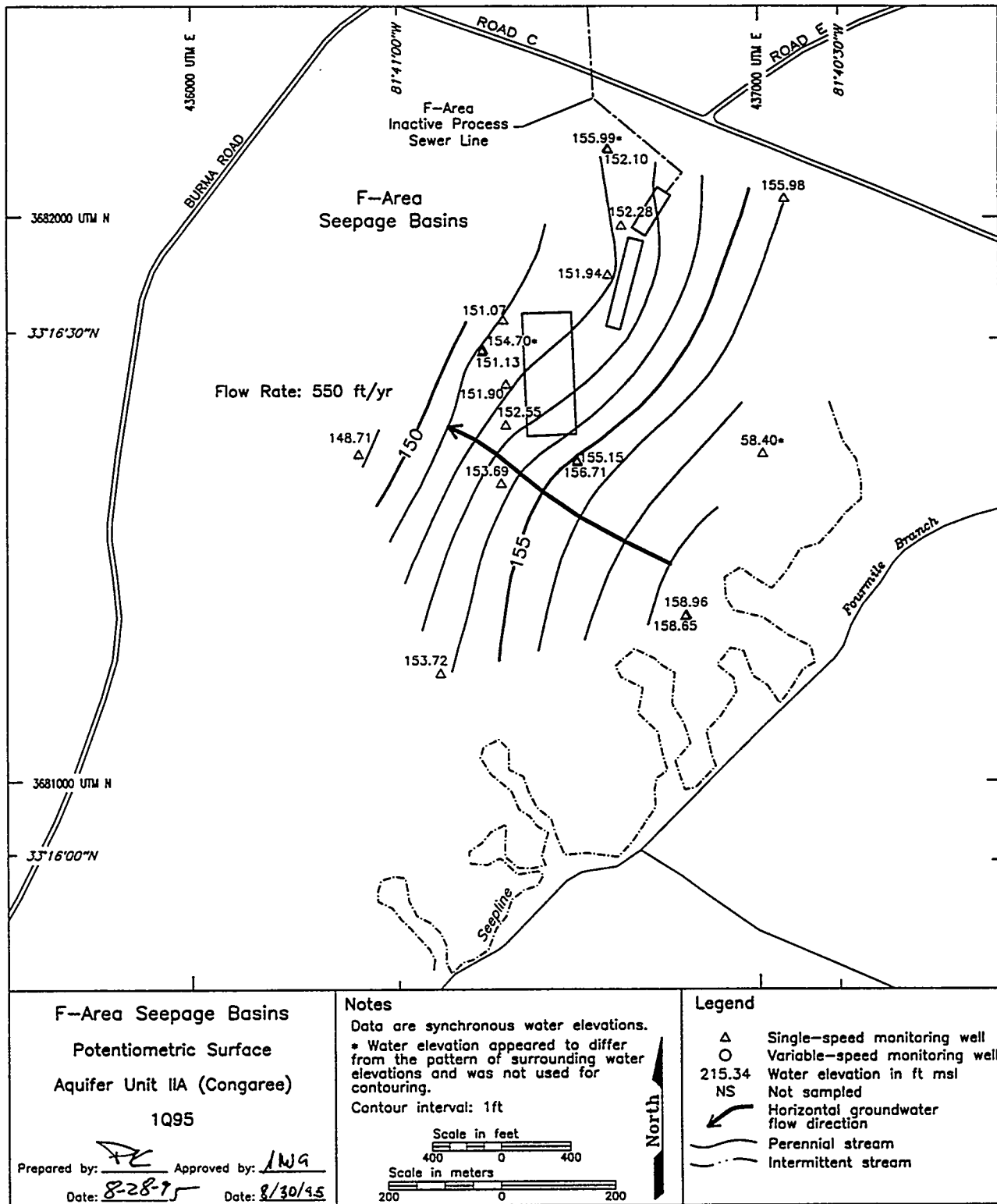


Figure 36. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

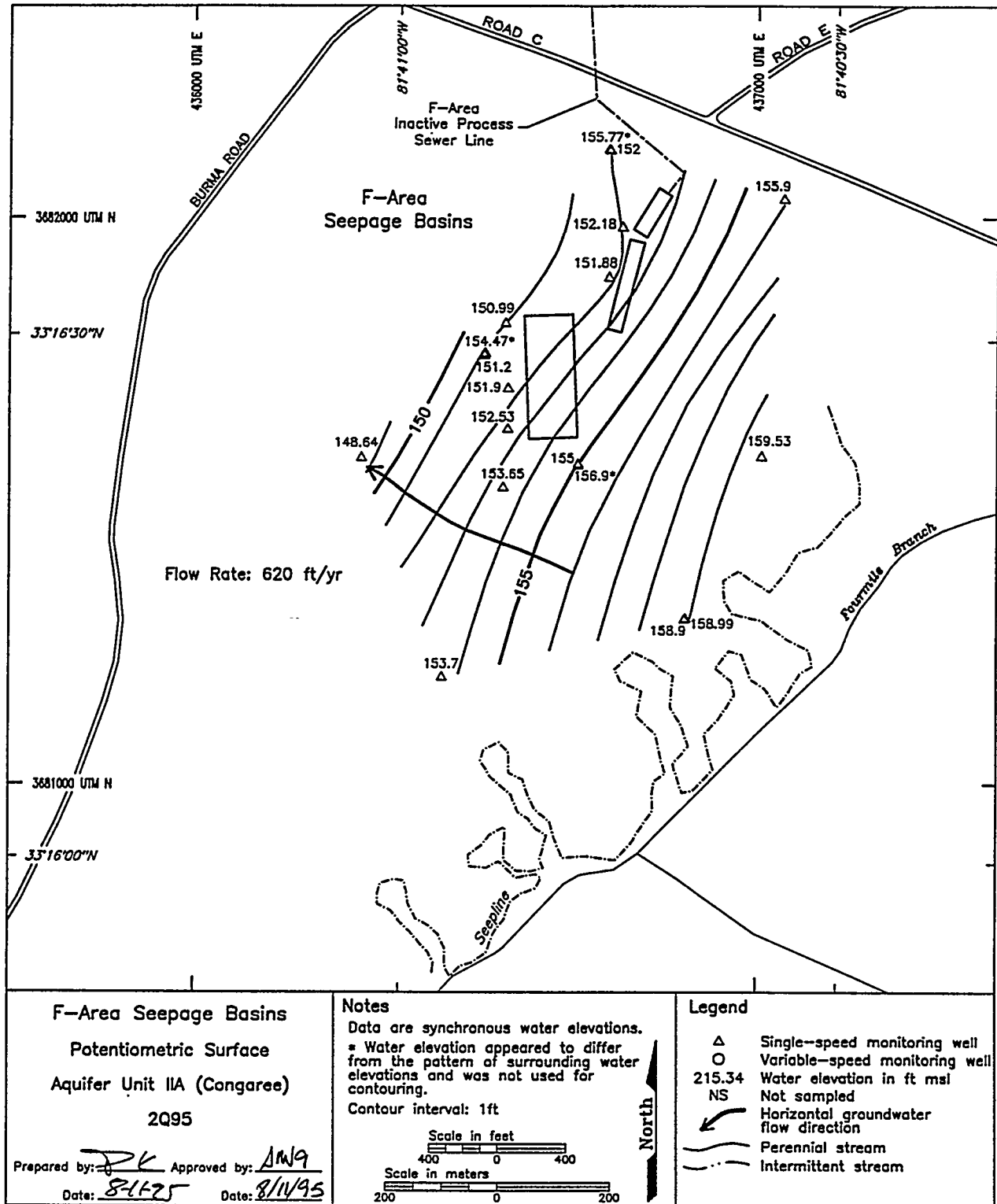


Figure 37. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, Second Quarter 1995

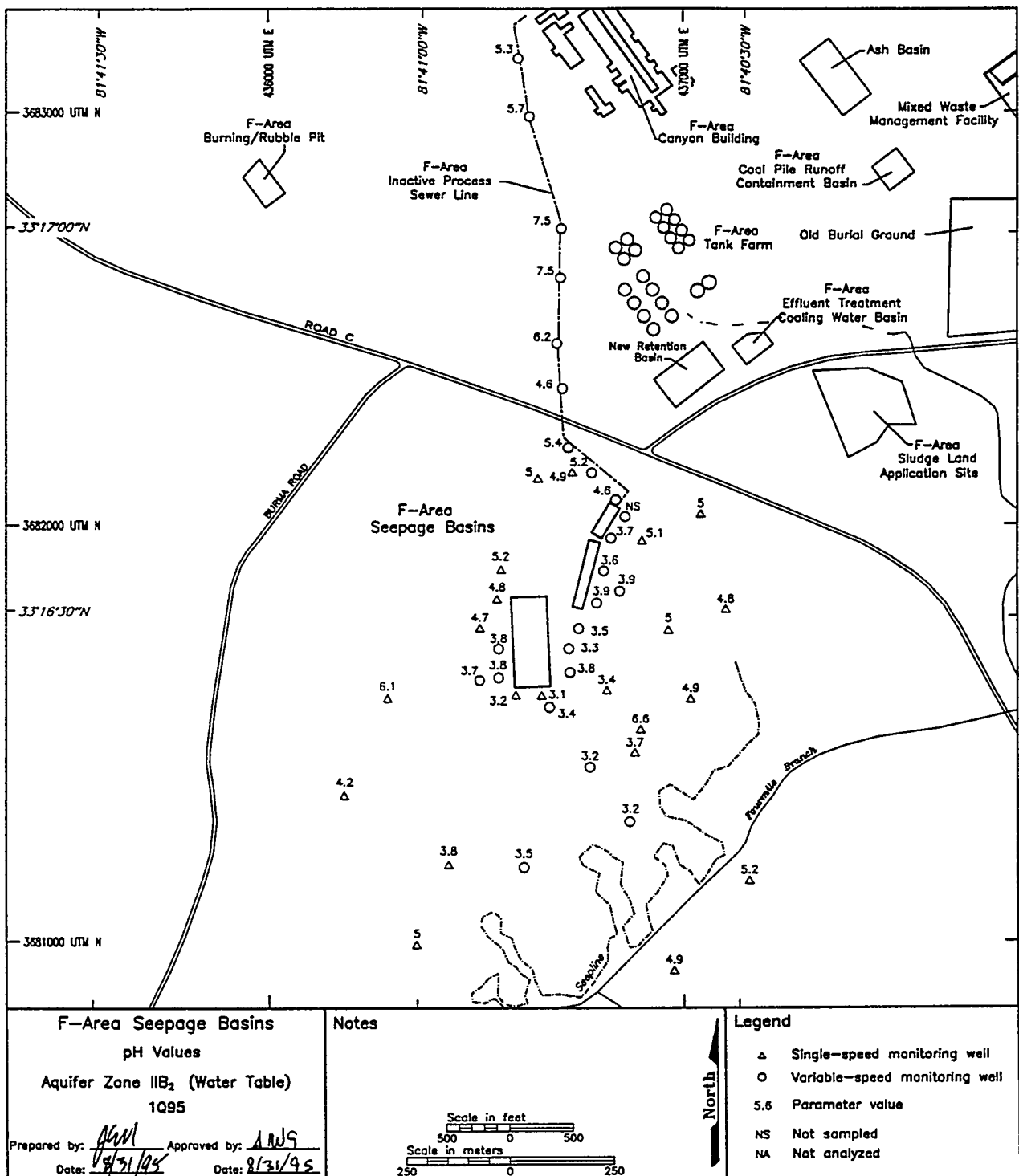


Figure 38. pH Values in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

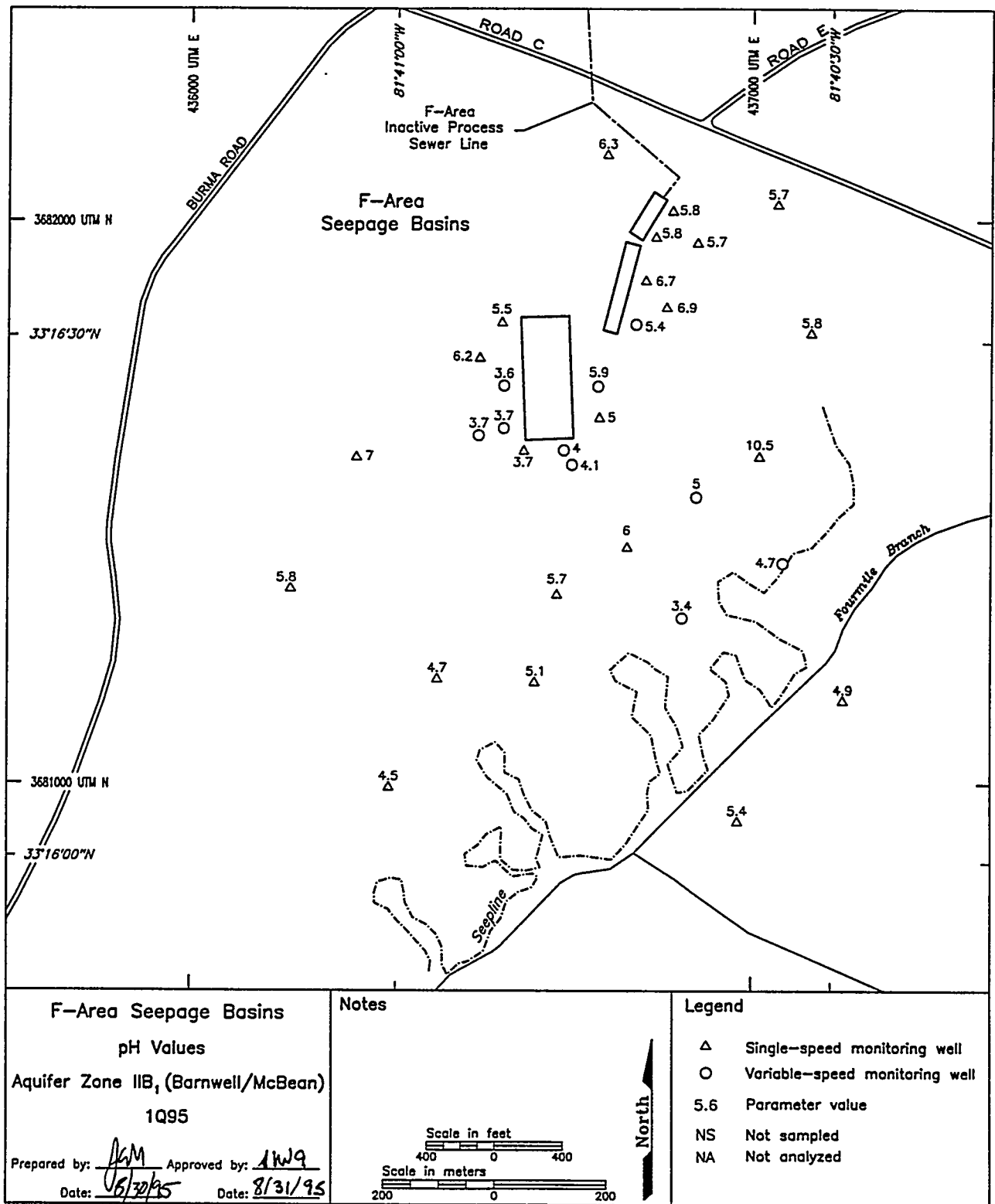


Figure 39. pH Values in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

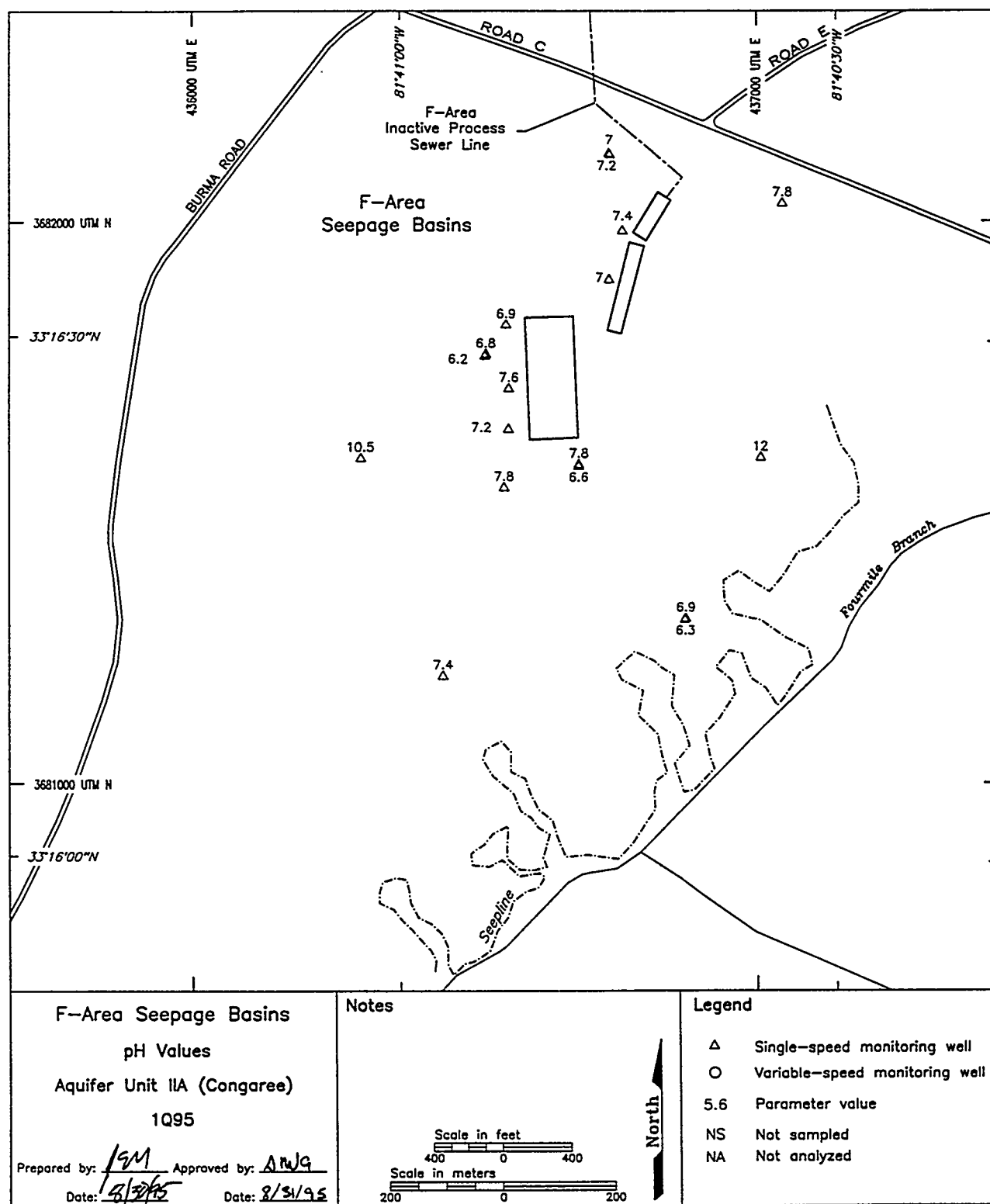


Figure 40. pH Values in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

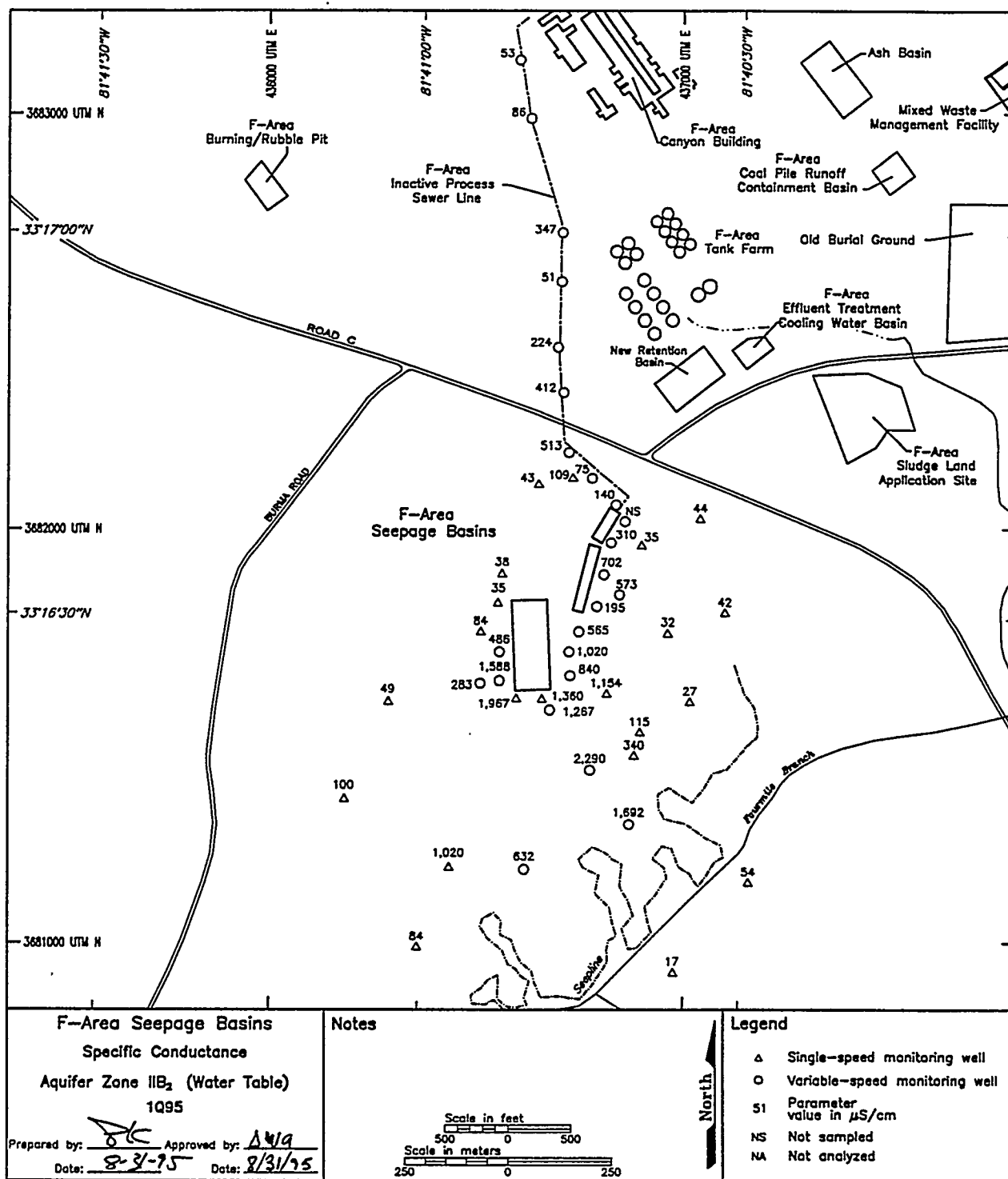


Figure 41. Specific Conductance in Aquifer Zone IIB₂ (Water Table) at the F-Area Seepage Basins, First Quarter 1995

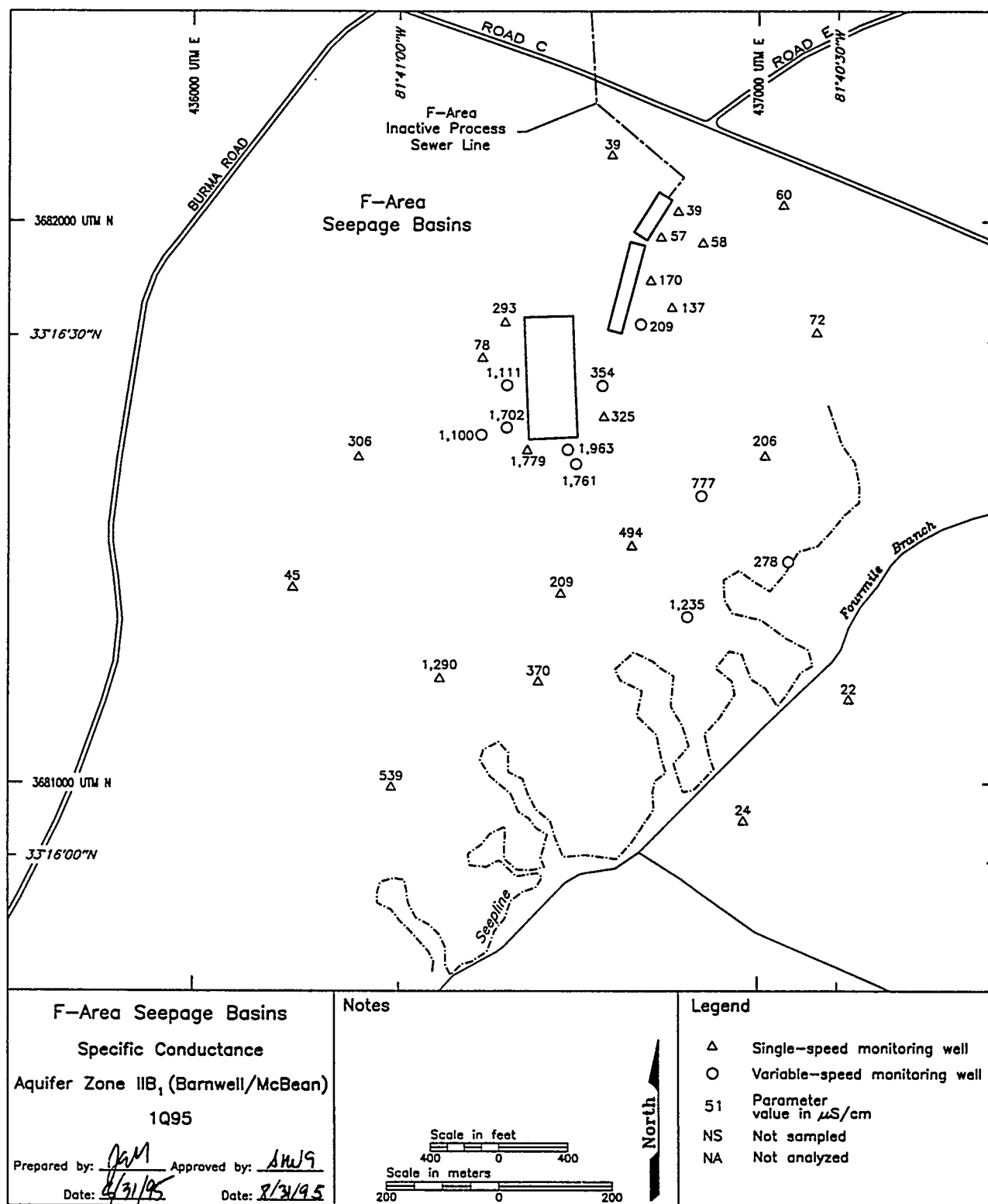


Figure 42. Specific Conductance in Aquifer Zone IIB₁ (Barnwell/McBean) at the F-Area Seepage Basins, First Quarter 1995

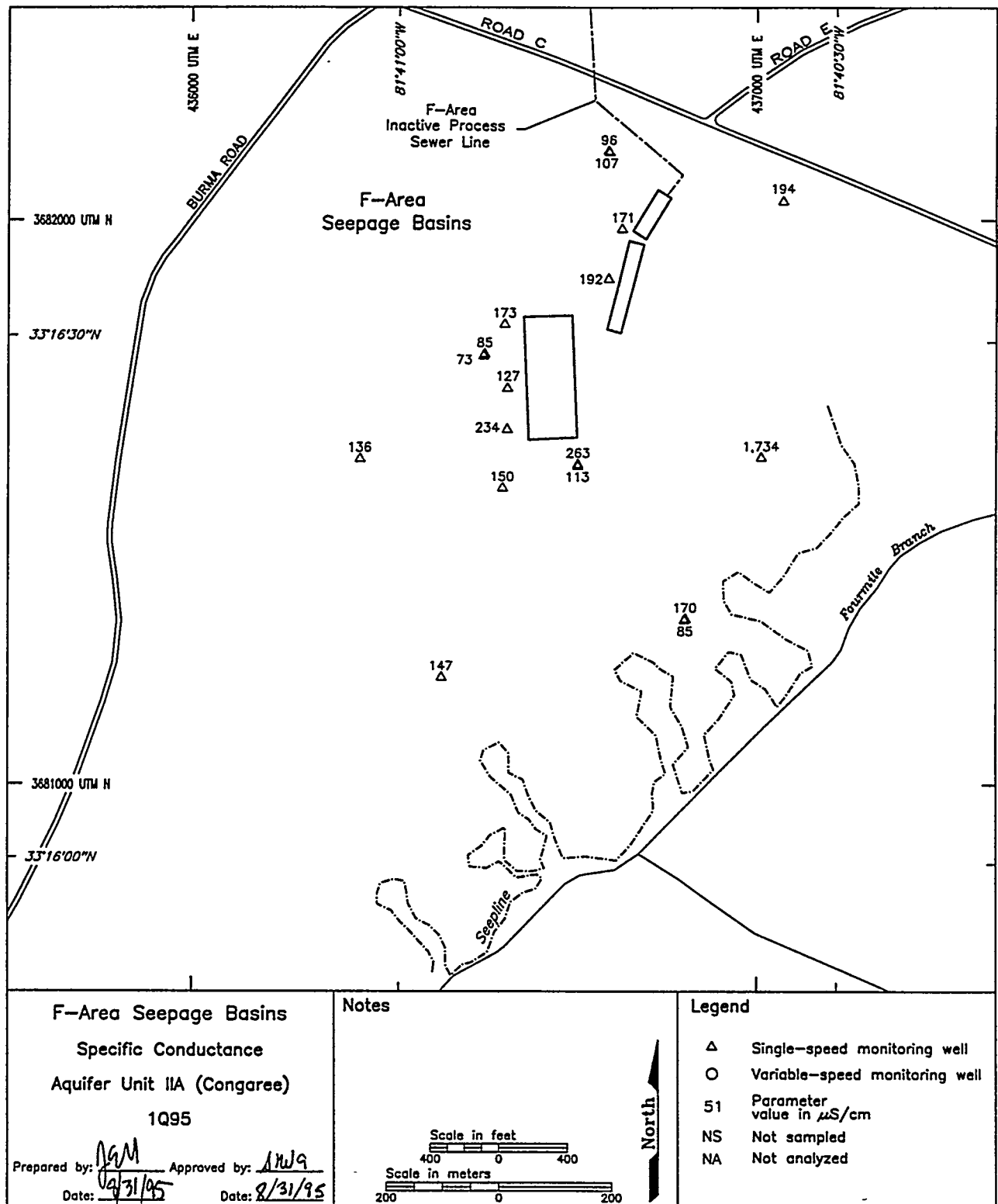


Figure 43. Specific Conductance in Aquifer Unit IIA (Congaree) at the F-Area Seepage Basins, First Quarter 1995

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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, Inc.
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
N	well was not stabilized before sampling began
P	inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	no water in standpipe; for water-level events only
W	purged water must be containerized; only water-level measurements were obtained
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

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
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter

Other

CS	carbon steel
DF	dilution factor column in data tables
E	exponential notation (e.g., 1.1E-09 = 1.1×10^{-9} = 0.0000000011)
H	holding time column in data tables
Mod	modifier column in data tables
PDWS	primary drinking water standard
PVC	polyvinyl chloride
ST	exceeded the final PDWS or screening level 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 (SCDHEC) 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 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 data modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Modifiers designed by 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.

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 quantitation 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 or VV	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.

Note: These are only some of the qualifiers present in the database. All modifiers associated with the data are published in the result tables of EPD/EMS' quarterly groundwater monitoring reports, the official repository of the data.

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>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 76	Aluminum	µg/L	170		NA ^a	
	Copper	µg/L	380		NA _b	
	Nitrate as nitrogen	µg/L	12,000			
	pH	pH	4.6	J1	4.7	J1
	Tritium	pCi/mL	2.9E+02		—	UI
	Zinc	µg/L	110		NA	
FSB 77	Aluminum	µg/L	24,000		NA	
	Americium-241	pCi/L	4.3E+01		NA	
	Curium-243/244	pCi/L	2.2E+01		NA	
	Gross alpha	pCi/L	1.2E+03		NA	
	Iodine-129	pCi/L	1.9E+02		NA	
	Nitrate as nitrogen	µg/L	380,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	3.5	J1	NA	
	Strontium-89	pCi/L	3.3E+01		NA	
	Strontium-90	pCi/L	3.7E+02		NA	
	Tritium	pCi/mL	3.8E+03		NA	
	Uranium-233/234	pCi/L	4.5E+02		NA	
	Uranium-235	pCi/L	2.1E+01		NA	
	Uranium-238	pCi/L	5.0E+02	J	NA	
	Zinc	µg/L	59		NA	
FSB 78	Aluminum	µg/L	38,000	V	NA	
	Americium-241	pCi/L	8.5E+01		NA	
	Cadmium	µg/L	23		NA	
	Cesium-137	pCi/L	2.8E+02		NA	
	Curium-243/244	pCi/L	9.2E+01		NA	
	Gross alpha	pCi/L	2.5E+03	J	NA	
	Iodine-129	pCi/L	2.9E+02		NA	
	Nitrate as nitrogen	µg/L	140,000		NA	
	Nonvolatile beta	pCi/L	3.1E+03	J	NA	
	pH	pH	3.3	J1	NA	
	Radium-228	pCi/L	5.7E+01	J	NA	
	Strontium-90	pCi/L	2.1E+03	J	NA	
	Thorium-234	pCi/L	7.0E+02		NA	
	Tritium	pCi/mL	7.3E+03		NA	
	Uranium-233/234	pCi/L	4.8E+01		NA	
	Uranium-238	pCi/L	5.1E+01	J	NA	
	Zinc	µg/L	150		NA	
FSB 79	Aluminum	µg/L	61,000		NA	
	Americium-241	pCi/L	6.0E+01		NA	
	Cobalt	µg/L	520		NA	
	Curium-243/244	pCi/L	1.4E+02		NA	
	Gross alpha	pCi/L	1.1E+03		NA	
	Iodine-129	pCi/L	2.4E+02		NA	
	Nickel	µg/L	62		NA	
	Nitrate as nitrogen	µg/L	150,000		NA	
	Nonvolatile beta	pCi/L	8.1E+02	J	NA	
	pH	pH	3.5	J1	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Strontium-90	pCi/L	1.9E+02		NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	2.3E+02		NA	
	Uranium-235	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	4.7E+02	J	NA	
	Zinc	µg/L	140		NA	
FSB 87D	Aluminum	µg/L	140		NA	
	Copper	µg/L	230		NA	
	Gross alpha	pCi/L	2.5E+01		5.2E+01	J
	Iodine-129	pCi/L	2.9E+01		NA	
	pH	pH	5.1	J1	4.6	J1
	Tritium	pCi/mL	3.6E+01		—	UI
	Uranium-238	pCi/L	1.9E+01		NA	
	Zinc	µg/L	62		NA	
FSB 89D	Aluminum	µg/L	6,600		NA	
	Americium-241	pCi/L	1.1E+01		NA	
	Gross alpha	pCi/L	2.2E+02		NA	
	Iodine-129	pCi/L	1.4E+02		NA	
	Mercury	µg/L	4.8		NA	
	Nitrate as nitrogen	µg/L	32,000		NA	
	Nonvolatile beta	pCi/L	1.0E+03		NA	
	pH	pH	4.0	J1	NA	
	Strontium-90	pCi/L	4.3E+02		NA	
	Tritium	pCi/mL	1.8E+03		NA	
	Uranium-233/234	pCi/L	9.1E+01		NA	
	Uranium-238	pCi/L	1.1E+02		NA	
	Zinc	µg/L	26		NA	
FSB 90D	Aluminum	µg/L	29,000		NA	
	Americium-241	pCi/L	1.9E+01		NA	
	Copper	µg/L	61		NA	
	Gross alpha	pCi/L	7.2E+02	J	NA	
	Iodine-129	pCi/L	2.2E+02		NA	
	Mercury	µg/L	14	V	NA	
	Nitrate as nitrogen	µg/L	97,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	pH	pH	3.8	J1	NA	
	Radium-228	pCi/L	2.5E+01	J	NA	
	Strontium-90	pCi/L	3.5E+02		NA	
	Tritium	pCi/mL	8.2E+03		NA	
	Uranium-233/234	pCi/L	3.3E+02		NA	
	Uranium-238	pCi/L	3.7E+02	J	NA	
	Zinc	µg/L	79		NA	
FSB 91D	Aluminum	µg/L	7,200		NA	
	Gross alpha	pCi/L	1.9E+02		NA	
	Iodine-129	pCi/L	2.4E+01		NA	
	Nitrate as nitrogen	µg/L	18,000	J	NA	
	Nonvolatile beta	pCi/L	1.1E+02		NA	
	pH	pH	3.8	J1	NA	
	Strontium-90	pCi/L	2.3E+01		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Uranium-233/234	pCi/L	6.8E+01		NA	
	Uranium-238	pCi/L	1.1E+02		NA	
FSB 92D	Aluminum	µg/L	58,000		NA	
	Americium-241	pCi/L	1.0E+01		NA	
	Cadmium	µg/L	15		NA	
	Curium-243/244	pCi/L	9.0E+00		NA	
	Cyanide	µg/L	5.4	JV	NA	
	Gross alpha	pCi/L	9.9E+02	J	NA	
	Iodine-129	pCi/L	1.2E+02		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	1.7E+03	J	NA	
	pH	pH	3.5	J1	NA	
	Radium-226	pCi/L	5.0E+01	J	NA	
	Radium-228	pCi/L	4.4E+01	J	NA	
	Strontium-89	pCi/L	1.0E+02		NA	
	Strontium-90	pCi/L	3.4E+02		NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	3.0E+02		NA	
	Uranium-238	pCi/L	3.6E+02	J	NA	
	Zinc	µg/L	96		NA	
FSB 93D	Aluminum	µg/L	34,000		NA	
	Cadmium	µg/L	13		NA	
	Gross alpha	pCi/L	3.3E+02	J	NA	
	Iodine-129	pCi/L	1.0E+02		NA	
	Nitrate as nitrogen	µg/L	120,000		NA	
	Nonvolatile beta	pCi/L	2.0E+03	J	NA	
	pH	pH	3.9	J1	NA	
	Radium-228	pCi/L	3.7E+01	J	NA	
	Strontium-89	pCi/L	2.6E+02		NA	
	Strontium-90	pCi/L	7.1E+02		NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	5.9E+01		NA	
	Uranium-238	pCi/L	8.2E+01	J	NA	
	Zinc	µg/L	62		NA	
FSB 94DR	Aluminum	µg/L	64,000		NA	
	Americium-241	pCi/L	9.0E+01		NA	
	Cesium-137	pCi/L	2.8E+02		NA	
	Copper	µg/L	67		NA	
	Curium-243/244	pCi/L	1.6E+02		NA	
	Gross alpha	pCi/L	1.4E+03		NA	
	Iodine-129	pCi/L	1.4E+02		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	3.3	J1	NA	
	Radium-228	pCi/L	5.7E+01	J	NA	
	Strontium-89	pCi/L	2.1E+01		NA	
	Strontium-90	pCi/L	2.3E+02		NA	
	Thorium-234	pCi/L	7.0E+02		NA	
	Tritium	pCi/mL	8.9E+03		NA	
	Uranium-233/234	pCi/L	6.7E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Uranium-235	pCi/L	3.9E+01		NA	
	Uranium-238	pCi/L	1.3E+03	J	NA	
	Zinc	µg/L	140		NA	
FSB 95DR	Aluminum	µg/L	47,000		NA	
	Americium-241	pCi/L	8.4E+01		NA	
	Cesium-137	pCi/L	4.4E+02		NA	
	Curium-243/244	pCi/L	8.7E+01		NA	
	Curium-245/246	pCi/L	7.9E+00		NA	
	Gross alpha	pCi/L	2.0E+03		NA	
	Iodine-129	pCi/L	2.3E+02		NA	
	Nitrate as nitrogen	µg/L	230,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	3.3	J1	NA	
	Radium-228	pCi/L	4.4E+01		NA	
	Strontium-90	pCi/L	1.5E+02		NA	
	Thorium-234	pCi/L	9.5E+02		NA	
	Tritium	pCi/mL	1.2E+04		NA	
	Uranium-233/234	pCi/L	4.2E+02		NA	
	Uranium-235	pCi/L	3.0E+01		NA	
	Uranium-238	pCi/L	1.2E+03	J	NA	
	Zinc	µg/L	140		NA	
FSB 97D	Aluminum	µg/L	53,000	V	NA	
	Americium-241	pCi/L	5.0E+01		NA	
	Barium	µg/L	1,200	V	NA	
	Cobalt	µg/L	81		NA	
	Copper	µg/L	64		NA	
	Curium-243/244	pCi/L	4.9E+01		NA	
	Gross alpha	pCi/L	1.4E+03	J	NA	
	Iodine-129	pCi/L	7.3E+01		NA	
	Nitrate as nitrogen	µg/L	220,000		NA	
	Nonvolatile beta	pCi/L	1.4E+03	J	NA	
	pH	pH	3.8	J1	NA	
	Radium-228	pCi/L	4.3E+01	J	NA	
	Strontium-90	pCi/L	5.9E+02	J	NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	4.5E+02		NA	
	Uranium-235	pCi/L	3.2E+01		NA	
	Uranium-238	pCi/L	1.2E+03		NA	
	Zinc	µg/L	180		NA	
FSB 98D	Aluminum	µg/L	16,000		NA	
	Americium-241	pCi/L	2.3E+01		NA	
	Cadmium	µg/L	17		NA	
	Curium-243/244	pCi/L	2.1E+01		NA	
	Gross alpha	pCi/L	8.9E+02	J	NA	
	Iodine-129	pCi/L	2.5E+01		NA	
	Nitrate as nitrogen	µg/L	64,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	3.9	J1	NA	
	Radium-228	pCi/L	2.5E+01	J	NA	
	Strontium-89	pCi/L	1.1E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Strontium-90	pCi/L	2.8E+02		NA	
	Thorium-234	pCi/L	4.6E+02		NA	
	Tritium	pCi/mL	3.8E+03		NA	
	Uranium-233/234	pCi/L	2.4E+02		NA	
	Uranium-235	pCi/L	1.5E+01		NA	
	Uranium-238	pCi/L	5.3E+02	J	NA	
	Zinc	µg/L	96		NA	
FSB 99D	Aluminum	µg/L	190		NA	
	Gross alpha	pCi/L	—		1.6E+01	J
	pH	pH	4.8	J1	5.3	J1
	Tritium	pCi/mL	2.2E+01		5.5E+01	
FSB104D	Aluminum	µg/L	34,000	V	NA	
	Americium-241	pCi/L	1.2E+01		NA	
	Curium-243/244	pCi/L	1.1E+01		NA	
	Gross alpha	pCi/L	5.7E+02		NA	
	Iodine-129	pCi/L	3.9E+01		NA	
	Nitrate as nitrogen	µg/L	74,000		NA	
	Nonvolatile beta	pCi/L	6.6E+02	J	NA	
	pH	pH	3.8	J1	NA	
	Strontium-89	pCi/L	2.6E+01		NA	
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	4.8E+03		NA	
	Uranium-233/234	pCi/L	2.5E+02		NA	
	Uranium-238	pCi/L	3.1E+02	J	NA	
	Zinc	µg/L	55		NA	
FSB105DR	Aluminum	µg/L	10,000		NA	
	Gross alpha	pCi/L	4.0E+02		NA	
	Iodine-129	pCi/L	1.7E+01		NA	
	Nitrate as nitrogen	µg/L	23,000	J	NA	
	Nonvolatile beta	pCi/L	4.1E+02		NA	
	pH	pH	3.6	J1	NA	
	Strontium-90	pCi/L	3.4E+01		NA	
	Tritium	pCi/mL	5.5E+02		NA	
	Uranium-233/234	pCi/L	2.2E+02		NA	
	Uranium-235	pCi/L	1.6E+01		NA	
	Uranium-238	pCi/L	5.6E+02		NA	
	Zinc	µg/L	54		NA	
FSB106D	Aluminum	µg/L	54		NA	
	Bis(2-ethylhexyl) phthalate	µg/L	190		NA	
	Lead	µg/L	51		—	
	pH	pH	6.6	J1	6.6	J1
	Zinc	µg/L	720		NA	
FSB107D	Aluminum	µg/L	15,000		NA	
	Americium-241	pCi/L	2.9E+01		NA	
	Curium-243/244	pCi/L	1.3E+01		NA	
	Gross alpha	pCi/L	1.1E+03	J	NA	
	Iodine-129	pCi/L	1.6E+02		NA	
	Mercury	µg/L	5.4		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Nitrate as nitrogen	µg/L	69,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	3.6	J1	NA	
	Radium-226	pCi/L	2.2E+01	J	NA	
	Strontium-89	pCi/L	6.8E+01		NA	
	Strontium-90	pCi/L	2.5E+02		NA	
	Thorium-234	pCi/L	5.3E+02		NA	
	Trichlorofluoromethane	µg/L	15		NA	
	Tritium	pCi/mL	2.5E+03		NA	
	Uranium-233/234	pCi/L	4.3E+02		NA	
	Uranium-235	pCi/L	2.4E+01		NA	
	Uranium-238	pCi/L	5.5E+02	J	NA	
	Zinc	µg/L	57		NA	
FSB108D	Aluminum	µg/L	120	V	NA	
	pH	pH	6.1	J1	6.2	J1
	Zinc	µg/L	53	V	NA	
FSB109D	Aluminum	µg/L	100	V	NA	
	pH	pH	6.3	J1	6.2	J1
	Tritium	pCi/mL	2.4E+01		2.7E+01	
	Zinc	µg/L	89	V	NA	
FSB110D	Aluminum	µg/L	96,000	V	NA	
	Americium-241	pCi/L	9.9E+01		NA	
	Copper	µg/L	64		NA	
	Curium-243/244	pCi/L	1.5E+02		NA	
	Curium-245/246	pCi/L	9.9E+01		NA	
	Cyanide	µg/L	8.8	JVVY	NA	
	Gross alpha	pCi/L	1.8E+03	J	NA	
	Iodine-129	pCi/L	1.3E+02		NA	
	Mercury	µg/L	4.8		NA	
	Nickel	µg/L	66	J	NA	
	Nitrate as nitrogen	µg/L	290,000		NA	
	Nonvolatile beta	pCi/L	8.7E+02	J	NA	
	pH	pH	3.2	J1	NA	
	Radium-228	pCi/L	3.4E+01	J	NA	
	Strontium-90	pCi/L	3.1E+02	J	NA	
	Thorium-234	pCi/L	6.1E+02		NA	
	Tritium	pCi/mL	1.9E+04		NA	
	Uranium-233/234	pCi/L	3.5E+02		NA	
	Uranium-235	pCi/L	2.8E+01		NA	
	Uranium-238	pCi/L	1.3E+03	J	NA	
	Zinc	µg/L	230		NA	
FSB111D	pH	pH	5.1	J1	5.2	J
	Zinc	µg/L	46		NA	
FSB112D	Aluminum	µg/L	44,000	V	NA	
	Cadmium	µg/L	16		NA	
	Cobalt	µg/L	77		NA	
	Copper	µg/L	70		NA	
	Gross alpha	pCi/L	3.4E+02	J	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Iodine-129	pCi/L	7.3E+01		NA	
	Nitrate as nitrogen	µg/L	160,000		NA	
	Nonvolatile beta	pCi/L	3.1E+03	J	NA	
	pH	pH	3.7	J1	NA	
	Radium-226	pCi/L	9.1E+01		NA	
	Radium-228	pCi/L	4.6E+01	J	NA	
	Strontium-90	pCi/L	1.2E+03	J	NA	
	Tritium	pCi/mL	8.8E+03		NA	
	Zinc	µg/L	88		NA	
FSB113D	pH	pH	5.0	J1	5.1	J1
FSB114D	pH	pH	5.1	J1	5.4	J1
FSB115D	Aluminum	µg/L	110		NA	
	Bis(2-ethylhexyl) phthalate	µg/L	24		NA	
	Copper	µg/L	110		NA	
	pH	pH	5.3	J	NA	
	Zinc	µg/L	120		NA	
FSB116D	Aluminum	µg/L	160		NA	
	Copper	µg/L	150		NA	
	pH	pH	5.5	J	5.3	J1
	Silver	µg/L	—	V	73	V
	Zinc	µg/L	230		NA	
FSB117D	Aluminum	µg/L	9,500		NA	
	Gross alpha	pCi/L	6.2E+02	J	NA	
	Iodine-129	pCi/L	4.2E+01		NA	
	Nitrate as nitrogen	µg/L	31,000		NA	
	Nonvolatile beta	pCi/L	3.5E+02		NA	
	pH	pH	3.7	J1	NA	
	Strontium-90	pCi/L	5.9E+01		NA	
	Tritium	pCi/mL	9.3E+02		NA	
	Uranium-233/234	pCi/L	3.5E+02		NA	
	Uranium-235	pCi/L	2.0E+01		NA	
	Uranium-238	pCi/L	3.8E+02		NA	
FSB118D	pH	pH	5.1	J1	5.9	J1
	Tritium	pCi/mL	NA		4.8E+02	
	Zinc	µg/L	31		NA	
FSB119D	Aluminum	µg/L	54,000	V	NA	
	Americium-241	pCi/L	1.6E+01		NA	
	Gross alpha	pCi/L	2.1E+03	J	NA	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	3.4	J1	NA	
	Radium-226	pCi/L	3.2E+01		NA	
	Radium-228	pCi/L	3.3E+01	J	NA	
	Strontium-90	pCi/L	4.6E+02	J	NA	
	Thorium-234	pCi/L	4.5E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Tritium	pCi/mL	6.3E+03		NA	
	Uranium-233/234	pCi/L	8.8E+02		NA	
	Uranium-235	pCi/L	4.6E+01		NA	
	Uranium-238	pCi/L	9.4E+02		NA	
	Zinc	µg/L	110		NA	
FSB120D	pH	pH	6.8	J1	6.7	J1
	Zinc	µg/L	69		NA	
FSB121DR	Aluminum	µg/L	2,200		NA	
	Gross alpha	pCi/L	3.0E+01		2.6E+01	J
	Iodine-129	pCi/L	3.8E+00		NA	
	Lead	µg/L	88		60	
	Nonvolatile beta	pCi/L	8.6E+01		9.2E+01	
	pH	pH	4.7	J	4.5	J1
	Strontium-90	pCi/L	2.5E+01		NA	
	Tritium	pCi/mL	9.8E+01		1.1E+02	
	Zinc	µg/L	50		NA	
FSB122D	Aluminum	µg/L	110	V	NA	
	pH	pH	5.4	J	5.1	J1
	Tritium	pCi/mL	3.5E+02		3.4E+02	
FSB123D	pH	pH	4.9	J1	5.1	J1
FSL 1D	Aluminum	µg/L	480		NA	
	Nitrate as nitrogen	µg/L	370,000		—	
	pH	pH	NA		5.0	J1
	Trichloroethylene	µg/L	8.2		6.5	
	Trichlorofluoromethane	µg/L	NA		32	
	Tritium	pCi/mL	5.3E+01		5.7E+01	
	Zinc	µg/L	NA		28	
FSL 2D	Aluminum	µg/L	300		NA	
	Lead	µg/L	160		920	
	pH	pH	NA		6.0	J1
	Zinc	µg/L	NA		57	
FSL 3D	Aluminum	µg/L	180		NA	
	Nitrate as nitrogen	µg/L	260,000		—	J
	Trichlorofluoromethane	µg/L	NA		12	
	Tritium	pCi/mL	4.8E+01		4.7E+01	
FSL 4D	Aluminum	µg/L	580		NA	
	pH	pH	NA		5.7	J1
FSL 5D	Aluminum	µg/L	450		NA	
	Lead	µg/L	360		100	V
	Nitrate as nitrogen	µg/L	21,000		16,000	J
	Nonvolatile beta	pCi/L	8.5E+02		6.8E+02	
	pH	pH	NA		6.0	J1

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Tritium	pCi/mL	4.8E+02		6.4E+02	
	Zinc	µg/L	NA		26	
FSL 6D	Aluminum	µg/L	420		NA	
	Nitrate as nitrogen	µg/L	38,000		27,000	
	pH	pH	NA		5.1	J1
	Tritium	pCi/mL	8.7E+02		3.1E+02	
FSL 7D	Aluminum	µg/L	1,200		NA	
	Gross alpha	pCi/L	4.5E+01		NA	
	Nitrate as nitrogen	µg/L	71,000		NA	
	Nonvolatile beta	pCi/L	7.1E+01		NA	
	Tritium	pCi/mL	1.9E+03		NA	
FSL 8D	pH	pH	NA		5.2	J1
	Trichloroethylene	µg/L	24	J1	—	
	Tritium	pCi/mL	3.0E+01		3.9E+01	
FSL 9D	Aluminum	µg/L	2,600		NA	
	Gross alpha	pCi/L	8.1E+01	J	1.3E+02	
	Nitrate as nitrogen	µg/L	13,000		14,000	
	Nonvolatile beta	pCi/L	2.6E+02		3.2E+02	J
	pH	pH	NA		4.7	J1
	Trichlorofluoromethane	µg/L	NA		5.9	
	Tritium	pCi/mL	4.7E+02		4.0E+02	
	Zinc	µg/L	NA		25	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 76C	pH	pH	6.0	J1	6.1	JY
	Trichlorofluoromethane	µg/L	9.4		NA	
FSB 78C	Aluminum	µg/L	16,000	V	NA	
	Cadmium	µg/L	16	J	NA	
	Cobalt	µg/L	300		NA	
	Gross alpha	pCi/L	1.6E+02	J	NA	
	Iodine-129	pCi/L	1.2E+02		NA	
	Nickel	µg/L	120		NA	
	Nitrate as nitrogen	µg/L	240,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	pH	pH	4.2	J1	NA	
	Radium-226	pCi/L	5.1E+01		NA	
	Strontium-90	pCi/L	6.2E+02	J	NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	3.9E+02		NA	
	Uranium-235	pCi/L	2.4E+01		NA	
	Uranium-238	pCi/L	1.0E+03	J	NA	
	Zinc	µg/L	590		NA	
FSB 79C	Aluminum	µg/L	39,000		NA	
	Americium-241	pCi/L	2.1E+01		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Cadmium	µg/L	27		NA	
	Cobalt	µg/L	140		NA	
	Curium-243/244	pCi/L	2.8E+01		NA	
	Gross alpha	pCi/L	8.0E+02		NA	
	Iodine-129	pCi/L	9.2E+01		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	2.5E+03	J	NA	
	pH	pH	3.7	J1	NA	
	Plutonium-238	pCi/L	2.3E+01		NA	
	Radium-226	pCi/L	4.8E+01	J	NA	
	Strontium-89	pCi/L	2.0E+02		NA	
	Strontium-90	pCi/L	7.2E+02		NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	2.2E+02		NA	
	Uranium-235	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	2.3E+02	J	NA	
	Zinc	µg/L	110		NA	
FSB 87C	Iodine-129	pCi/L	3.3E+00		NA	
	pH	pH	5.9	J1	6.1	J1
	Tritium	pCi/mL	4.7E+02		4.8E+02	
FSB 88C	pH	pH	5.7	J1	5.8	J1
FSB 89C	Dichloromethane	µg/L	14	VV	NA	
	pH	pH	5.9	J	6.0	J1
	Trichlorofluoromethane	µg/L	6.6		NA	
FSB 90C	Aluminum	µg/L	73		NA	
	Nitrate as nitrogen	µg/L	11,000	J	14,000	
	pH	pH	6.8	J1	6.4	J1
	Tritium	pCi/mL	5.8E+02		6.1E+02	
FSB 91C	Aluminum	µg/L	28,000	V	NA	
	Copper	µg/L	99	V	NA	
	Gross alpha	pCi/L	6.2E+01		NA	
	Iodine-129	pCi/L	4.8E+01		NA	
	Nitrate as nitrogen	µg/L	25,000		NA	
	Nonvolatile beta	pCi/L	4.0E+02	V	NA	
	pH	pH	5.4	J1	NA	
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	6.6E+02		NA	
	Zinc	µg/L	130		NA	
FSB 92C	Aluminum	µg/L	1,200		NA	
	Gross alpha	pCi/L	5.2E+01		NA	
	Iodine-129	pCi/L	1.5E+01		NA	
	Nitrate as nitrogen	µg/L	47,000	J	NA	
	Nonvolatile beta	pCi/L	3.8E+02		NA	
	pH	pH	5.5	J1	NA	
	Strontium-89	pCi/L	3.1E+01		NA	
	Strontium-90	pCi/L	9.5E+01		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Tritium	pCi/mL	1.8E+03		NA	
	Zinc	µg/L	60		NA	
FSB 93C	Iodine-129	pCi/L	1.7E+01		NA	
	Nitrate as nitrogen	µg/L	37,000		46,000	
	pH	pH	6.8	J1	5.1	J1
	Tritium	pCi/mL	1.5E+03		1.6E+03	
	Zinc	µg/L	99		NA	
FSB 94C	Aluminum	µg/L	46,000		NA	
	Cadmium	µg/L	23	J	NA	
	Cobalt	µg/L	670		NA	
	Gross alpha	pCi/L	2.2E+02		NA	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nickel	µg/L	180		NA	
	Nitrate as nitrogen	µg/L	250,000		NA	
	Nonvolatile beta	pCi/L	2.4E+03	J	NA	
	pH	pH	4.5	J1	NA	
	Radium-226	pCi/L	3.5E+01	J	NA	
	Radium-228	pCi/L	2.2E+01	J	NA	
	Strontium-90	pCi/L	7.2E+02		NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	1.7E+01		NA	
	Uranium-238	pCi/L	1.9E+01	J	NA	
	Zinc	µg/L	320		NA	
FSB 95CR	Aluminum	µg/L	47,000		NA	
	Americium-241	pCi/L	1.3E+01		NA	
	Cadmium	µg/L	16		NA	
	Cobalt	µg/L	460		NA	
	Curium-243/244	pCi/L	2.6E+01		NA	
	Gross alpha	pCi/L	1.2E+03		NA	
	Iodine-129	pCi/L	2.3E+02		NA	
	Nickel	µg/L	96		NA	
	Nitrate as nitrogen	µg/L	230,000		NA	
	Nonvolatile beta	pCi/L	2.4E+03		NA	
	pH	pH	4.0	J1	NA	
	Radium-226	pCi/L	8.9E+01		NA	
	Radium-228	pCi/L	2.5E+02		NA	
	Strontium-89	pCi/L	1.9E+02	J2	NA	
	Strontium-90	pCi/L	1.2E+03		NA	
	Tritium	pCi/mL	1.4E+04	V	NA	
	Uranium-233/234	pCi/L	3.5E+02		NA	
	Uranium-235	pCi/L	1.8E+01	R	NA	
	Uranium-238	pCi/L	4.4E+02	R	NA	
	Zinc	µg/L	310		NA	
FSB 97C	Aluminum	µg/L	77,000	V	NA	
	Americium-241	pCi/L	5.3E+01		NA	
	Cobalt	µg/L	320		NA	
	Copper	µg/L	70		NA	
	Curium-243/244	pCi/L	3.7E+01		NA	
	Gross alpha	pCi/L	2.0E+03	J	NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Iodine-129	pCi/L	8.6E+01		NA	
	Nickel	µg/L	75		NA	
	Nitrate as nitrogen	µg/L	240,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	pH	pH	3.7	J1	NA	
	Radium-226	pCi/L	6.3E+01		NA	
	Radium-228	pCi/L	4.4E+01	J	NA	
	Strontium-90	pCi/L	3.4E+02	J	NA	
	Trichloroethylene	µg/L	9.3		NA	
	Tritium	pCi/mL	1.3E+04		NA	
	Uranium-233/234	pCi/L	4.2E+02		NA	
	Uranium-235	pCi/L	2.5E+01		NA	
	Uranium-238	pCi/L	5.7E+02	J	NA	
	Zinc	µg/L	190		NA	
FSB 98C	Aluminum	µg/L	39,000	V	NA	
	Americium-241	pCi/L	3.4E+01		NA	
	Cobalt	µg/L	350		NA	
	Copper	µg/L	72		NA	
	Curium-243/244	pCi/L	3.3E+01		NA	
	Gross alpha	pCi/L	2.1E+02		NA	
	Iodine-129	pCi/L	8.5E+01		NA	
	Nitrate as nitrogen	µg/L	140,000		NA	
	Nonvolatile beta	pCi/L	3.2E+02	J	NA	
	pH	pH	3.4	J1	NA	
	Radium-226	pCi/L	5.2E+01	J	NA	
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	7.9E+03		NA	
	Uranium-233/234	pCi/L	4.5E+02		NA	
	Uranium-235	pCi/L	2.3E+01		NA	
	Uranium-238	pCi/L	6.6E+02	J	NA	
	Zinc	µg/L	120		NA	
FSB 99C	Aluminum	µg/L	120		NA	
	Gross alpha	pCi/L	2.1E+01		3.7E+01	
	Iodine-129	pCi/L	1.2E+01		NA	
	Nitrate as nitrogen	µg/L	28,000		30,000	
	Nonvolatile beta	pCi/L	8.7E+01		9.0E+01	J
	pH	pH	5.4	J1	5.9	J1
	Strontium-90	pCi/L	1.8E+01		NA	
	Trichloroethylene	µg/L	18		NA	
	Tritium	pCi/mL	1.5E+03		NA	
FSB102C	Aluminum	µg/L	1,200		NA	
	Iodine-129	pCi/L	2.9E+01		NA	
	Nitrate as nitrogen	µg/L	37,000	J	NA	
	Nonvolatile beta	pCi/L	5.7E+02		NA	
	pH	pH	4.5	J1	NA	
	Strontium-89	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	1.7E+02		NA	
	Tritium	pCi/mL	9.5E+02		NA	
	Zinc	µg/L	39		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB103C	Iodine-129	pCi/L	5.1E+00		NA	
	Nitrate as nitrogen	µg/L	21,000		25,000	
	pH	pH	5.9	J1	5.8	J1
	Tritium	pCi/mL	5.8E+02		5.9E+02	
	Zinc	µg/L	71		NA	
FSB104C	Iodine-129	pCi/L	6.0E+00		NA	
	Nitrate as nitrogen	µg/L	45,000		43,000	
	pH	pH	5.4	J1	5.9	J1
	Tritium	pCi/mL	1.2E+03		—	
	Zinc	µg/L	53		NA	
FSB105C	Aluminum	µg/L	46,000	V	NA	
	Americium-241	pCi/L	2.4E+01		NA	
	Cadmium	µg/L	11		NA	
	Cobalt	µg/L	240		NA	
	Curium-243/244	pCi/L	2.1E+01		NA	
	Gross alpha	pCi/L	7.7E+02	J	NA	
	Iodine-129	pCi/L	6.3E+01		NA	
	Nitrate as nitrogen	µg/L	150,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	pH	pH	3.4	J1	NA	
	Radium-226	pCi/L	5.5E+01	J	NA	
	Radium-228	pCi/L	2.6E+01	J	NA	
	Strontium-89	pCi/L	6.0E+01		NA	
	Strontium-90	pCi/L	2.2E+02		NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	2.3E+02		NA	
	Uranium-238	pCi/L	2.5E+02	J	NA	
	Zinc	µg/L	110		NA	
FSB106C	Aluminum	µg/L	4,300	V	NA	
	Cadmium	µg/L	10		NA	
	Gross alpha	pCi/L	4.5E+01	J	NA	
	Iodine-129	pCi/L	1.6E+02		NA	
	Nitrate as nitrogen	µg/L	90,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	pH	pH	4.7	J1	NA	
	Radium-226	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	4.8E+02	J	NA	
	Tritium	pCi/mL	2.4E+03		NA	
	Zinc	µg/L	40		NA	
FSB107C	pH	pH	—	J1	6.7	J1
	Strontium-90	pCi/L	1.2E+01		NA	
	Tritium	pCi/mL	1.2E+02		1.1E+02	
FSB110C	Aluminum	µg/L	100	VV	NA	
	Iodine-129	pCi/L	2.5E+01		NA	
	Nitrate as nitrogen	µg/L	55,000		53,000	
	Nonvolatile beta	pCi/L	6.7E+01		5.6E+01	
	pH	pH	6.0	J1	6.1	J1
	Strontium-90	pCi/L	1.2E+01		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Tritium	pCi/mL	1.8E+03		1.4E+03	
	Zinc	µg/L	120	V	NA	
FSB111C	Iodine-129	pCi/L	2.0E+00		NA	
	pH	pH	5.7	J1	5.7	J1
	Tritium	pCi/mL	—		4.5E+02	
FSB112C	Aluminum	µg/L	17,000	V	NA	
	Cadmium	µg/L	39		NA	
	Cobalt	µg/L	290		NA	
	Gross alpha	pCi/L	1.7E+02	J	NA	
	Iodine-129	pCi/L	2.2E+02		NA	
	Nickel	µg/L	87	J	NA	
	Nitrate as nitrogen	µg/L	210,000		NA	
	Nonvolatile beta	pCi/L	1.8E+03	J	NA	
	pH	pH	4.5	J1	NA	
	Radium-226	pCi/L	9.8E+01		NA	
	Radium-228	pCi/L	3.0E+01	J	NA	
	Strontium-90	pCi/L	9.2E+02	J	NA	
	Tritium	pCi/mL	7.3E+03		NA	
	Zinc	µg/L	180		NA	
FSB113C	Aluminum	µg/L	140		NA	
	pH	pH	11	JY	11	J1
	Tritium	pCi/mL	6.6E+01		7.0E+01	
FSB114C	pH	pH	5.8	J1	5.9	J1
FSB115C	Aluminum	µg/L	65		NA	
	pH	pH	6.1	J	5.8	J1
FSB116C	pH	pH	5.1	J1	5.4	J1
FSB120C	Aluminum	µg/L	180		NA	
	Gross alpha	pCi/L	1.7E+01	J	NA	
	Iodine-129	pCi/L	1.4E+01		NA	
	Nitrate as nitrogen	µg/L	34,000		37,000	
	pH	pH	6.7	J1	6.5	J1
	Tritium	pCi/mL	1.1E+03		1.0E+03	
FSB121C	pH	pH	5.8	J1	6.0	J1
	Tritium	pCi/mL	1.3E+02		1.2E+02	
FSB122C	Aluminum	µg/L	660		NA	
	Gross alpha	pCi/L	2.0E+01	J	1.8E+01	
	Iodine-129	pCi/L	2.2E+01		NA	
	Nitrate as nitrogen	µg/L	60,000		67,000	
	Nonvolatile beta	pCi/L	6.5E+01		9.2E+01	
	pH	pH	5.0	J1	5.1	J1
	Tritium	pCi/mL	1.9E+03		1.7E+03	
	Zinc	µg/L	69		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB123C	pH	pH	5.9	J1	6.0	J1

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 76B	Iodine-129	pCi/L	3.0E+00		NA	
FSB 78B	Aluminum	µg/L	92	VV	NA	
	Nitrate as nitrogen	µg/L	11,000		11,000	
	Tritium	pCi/mL	2.7E+02		3.0E+02	
FSB 79B	Tritium	pCi/mL	2.4E+01		—	UI
FSB 87B	pH	pH	6.2	J1	6.0	J1
	Tritium	pCi/mL	8.8E+01		—	UI
FSB 96AR	Iodine-129	pCi/L	7.5E+00		NA	
FSB 97A	Gross alpha	pCi/L	NA		1.6E+01	
	Tritium	pCi/mL	2.2E+02		2.7E+02	J1
FSB 98AR	Tritium	pCi/mL	2.5E+01		—	UI
FSB 99A	Iodine-129	pCi/L	2.6E+00		NA	
	Tritium	pCi/mL	1.6E+02		7.8E+01	
FSB100A	Tritium	pCi/mL	1.2E+02		1.3E+02	
FSB112A	Tritium	pCi/mL	1.1E+02		1.6E+02	
FSB113A	Aluminum	µg/L	2,100	J	NA	
	pH	pH	12		12	J1
	Tritium	pCi/mL	1.8E+02		1.7E+02	
FSB114A	Aluminum	µg/L	110		NA	
	Tritium	pCi/mL	—		4.9E+02	
FSB120A	Aluminum	µg/L	590	J1	NA	
	pH	pH	10		9.8	J1
	Tritium	pCi/mL	6.5E+01		2.3E+01	
HSB 85A	Aluminum	µg/L	—		85	V

Aquifer Unit IIA (lower Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 76A	pH	pH	6.7	J1	6.8	J1

Aquifer Unit IIA (lower Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 78A	pH	pH	6.7	J1	6.7	J1
FSB 79A	pH	pH	6.4	J1	6.5	J1
FSB 87A	pH	pH	6.5	J1	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).

^a NA = not analyzed.

^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>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 76	Aluminum	µg/L	170		NA ^a	
	Nitrate as nitrogen	µg/L	12,000		— ^b	
	Tritium	pCi/mL	2.9E+02		—	
FSB 77	Aluminum	µg/L	24,000		NA	
	Americium-241	pCi/L	4.3E+01		NA	
	Curium-243/244	pCi/L	2.2E+01		NA	
	Gross alpha	pCi/L	1.2E+03		NA	
	Iodine-129	pCi/L	1.9E+02		NA	
	Nitrate as nitrogen	µg/L	380,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Strontium-89	pCi/L	3.3E+01		NA	
	Strontium-90	pCi/L	3.7E+02		NA	
	Tritium	pCi/mL	3.8E+03		NA	
	Uranium-233/234	pCi/L	4.5E+02		NA	
	Uranium-235	pCi/L	2.1E+01		NA	
	Uranium-238	pCi/L	5.0E+02	J	NA	
FSB 78	Aluminum	µg/L	38,000	V	NA	
	Americium-241	pCi/L	8.5E+01		NA	
	Cadmium	µg/L	23		NA	
	Cesium-137	pCi/L	2.8E+02		NA	
	Curium-243/244	pCi/L	9.2E+01		NA	
	Gross alpha	pCi/L	2.5E+03	J	NA	
	Iodine-129	pCi/L	2.9E+02		NA	
	Nitrate as nitrogen	µg/L	140,000		NA	
	Nonvolatile beta	pCi/L	3.1E+03	J	NA	
	Radium-228	pCi/L	5.7E+01	J	NA	
	Strontium-90	pCi/L	2.1E+03	J	NA	
	Thorium-234	pCi/L	7.0E+02		NA	
	Tritium	pCi/mL	7.3E+03		NA	
	Uranium-233/234	pCi/L	4.8E+01		NA	
	Uranium-238	pCi/L	5.1E+01	J	NA	
FSB 79	Aluminum	µg/L	61,000		NA	
	Americium-241	pCi/L	6.0E+01		NA	
	Cadmium	µg/L	5.7	J	NA	
	Cobalt	µg/L	520		NA	
	Curium-243/244	pCi/L	1.4E+02		NA	
	Gross alpha	pCi/L	1.1E+03		NA	
	Iodine-129	pCi/L	2.4E+02		NA	
	Nitrate as nitrogen	µg/L	150,000		NA	
	Nonvolatile beta	pCi/L	8.1E+02	J	NA	
	Strontium-90	pCi/L	1.9E+02		NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	2.3E+02		NA	
	Uranium-235	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	4.7E+02	J	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 87D	Aluminum	µg/L	140		NA	
	Gross alpha	pCi/L	2.5E+01		5.2E+01	J
	Iodine-129	pCi/L	2.9E+01		NA	
	Tritium	pCi/mL	3.6E+01		—	UI
	Uranium-238	pCi/L	1.9E+01		NA	
FSB 89D	Aluminum	µg/L	6,600		NA	
	Americium-241	pCi/L	1.1E+01		NA	
	Gross alpha	pCi/L	2.2E+02		NA	
	Iodine-129	pCi/L	1.4E+02		NA	
	Mercury	µg/L	4.8		NA	
	Nitrate as nitrogen	µg/L	32,000		NA	
	Nonvolatile beta	pCi/L	1.0E+03		NA	
	Strontium-90	pCi/L	4.3E+02		NA	
	Tritium	pCi/mL	1.8E+03		NA	
	Uranium-233/234	pCi/L	9.1E+01		NA	
	Uranium-238	pCi/L	1.1E+02		NA	
FSB 90D	Aluminum	µg/L	29,000		NA	
	Americium-241	pCi/L	1.9E+01		NA	
	Cadmium	µg/L	7.2		NA	
	Gross alpha	pCi/L	7.2E+02	J	NA	
	Iodine-129	pCi/L	2.2E+02		NA	
	Mercury	µg/L	14	V	NA	
	Nitrate as nitrogen	µg/L	97,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	Radium-228	pCi/L	2.5E+01	J	NA	
	Strontium-90	pCi/L	3.5E+02		NA	
	Tritium	pCi/mL	8.2E+03		NA	
	Uranium-233/234	pCi/L	3.3E+02		NA	
	Uranium-238	pCi/L	3.7E+02	J	NA	
FSB 91D	Aluminum	µg/L	7,200		NA	
	Gross alpha	pCi/L	1.9E+02		NA	
	Iodine-129	pCi/L	2.4E+01		NA	
	Nitrate as nitrogen	µg/L	18,000	J	NA	
	Nonvolatile beta	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	2.3E+01		NA	
	Uranium-233/234	pCi/L	6.8E+01		NA	
	Uranium-238	pCi/L	1.1E+02		NA	
FSB 92D	Aluminum	µg/L	58,000		NA	
	Americium-241	pCi/L	1.0E+01		NA	
	Cadmium	µg/L	15		NA	
	Curium-243/244	pCi/L	9.0E+00		NA	
	Gross alpha	pCi/L	9.9E+02	J	NA	
	Iodine-129	pCi/L	1.2E+02		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	1.7E+03	J	NA	
	Radium-226	pCi/L	5.0E+01	J	NA	
	Radium-228	pCi/L	4.4E+01	J	NA	
	Strontium-89	pCi/L	1.0E+02		NA	
	Strontium-90	pCi/L	3.4E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	3.0E+02		NA	
	Uranium-238	pCi/L	3.6E+02	J	NA	
FSB 93D	Aluminum	µg/L	34,000		NA	
	Cadmium	µg/L	13		NA	
	Gross alpha	pCi/L	3.3E+02	J	NA	
	Iodine-129	pCi/L	1.0E+02		NA	
	Nitrate as nitrogen	µg/L	120,000		NA	
	Nonvolatile beta	pCi/L	2.0E+03	J	NA	
	Radium-228	pCi/L	3.7E+01	J	NA	
	Strontium-89	pCi/L	2.6E+02		NA	
	Strontium-90	pCi/L	7.1E+02		NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	5.9E+01		NA	
	Uranium-238	pCi/L	8.2E+01	J	NA	
FSB 94DR	Aluminum	µg/L	64,000		NA	
	Americium-241	pCi/L	9.0E+01		NA	
	Cesium-137	pCi/L	2.8E+02		NA	
	Curium-243/244	pCi/L	1.6E+02		NA	
	Gross alpha	pCi/L	1.4E+03		NA	
	Iodine-129	pCi/L	1.4E+02		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Radium-228	pCi/L	5.7E+01	J	NA	
	Strontium-89	pCi/L	2.1E+01		NA	
	Strontium-90	pCi/L	2.3E+02		NA	
	Thorium-234	pCi/L	7.0E+02		NA	
	Tritium	pCi/mL	8.9E+03		NA	
	Uranium-233/234	pCi/L	6.7E+02		NA	
	Uranium-235	pCi/L	3.9E+01		NA	
	Uranium-238	pCi/L	1.3E+03	J	NA	
FSB 95DR	Aluminum	µg/L	47,000		NA	
	Americium-241	pCi/L	8.4E+01		NA	
	Cesium-137	pCi/L	4.4E+02		NA	
	Curium-243/244	pCi/L	8.7E+01		NA	
	Curium-245/246	pCi/L	7.9E+00		NA	
	Gross alpha	pCi/L	2.0E+03		NA	
	Iodine-129	pCi/L	2.3E+02		NA	
	Nitrate as nitrogen	µg/L	230,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Radium-228	pCi/L	4.4E+01		NA	
	Strontium-90	pCi/L	1.5E+02		NA	
	Thorium-234	pCi/L	9.5E+02		NA	
	Tritium	pCi/mL	1.2E+04		NA	
	Uranium-233/234	pCi/L	4.2E+02		NA	
	Uranium-235	pCi/L	3.0E+01		NA	
	Uranium-238	pCi/L	1.2E+03	J	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 97D	Aluminum	µg/L	53,000	V	NA	
	Americium-241	pCi/L	5.0E+01		NA	
	Cadmium	µg/L	9.1		NA	
	Cobalt	µg/L	81		NA	
	Curium-243/244	pCi/L	4.9E+01		NA	
	Gross alpha	pCi/L	1.4E+03	J	NA	
	Iodine-129	pCi/L	7.3E+01		NA	
	Nitrate as nitrogen	µg/L	220,000		NA	
	Nonvolatile beta	pCi/L	1.4E+03	J	NA	
	Radium-228	pCi/L	4.3E+01	J	NA	
	Strontium-90	pCi/L	5.9E+02	J	NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	4.5E+02		NA	
	Uranium-235	pCi/L	3.2E+01		NA	
	Uranium-238	pCi/L	1.2E+03		NA	
FSB 98D	Aluminum	µg/L	16,000		NA	
	Americium-241	pCi/L	2.3E+01		NA	
	Cadmium	µg/L	17		NA	
	Cobalt	µg/L	41		NA	
	Curium-243/244	pCi/L	2.1E+01		NA	
	Gross alpha	pCi/L	8.9E+02	J	NA	
	Iodine-129	pCi/L	2.5E+01		NA	
	Nitrate as nitrogen	µg/L	64,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Radium-228	pCi/L	2.5E+01	J	NA	
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	2.8E+02		NA	
	Thorium-234	pCi/L	4.6E+02		NA	
	Tritium	pCi/mL	3.8E+03		NA	
	Uranium-233/234	pCi/L	2.4E+02		NA	
	Uranium-235	pCi/L	1.5E+01		NA	
	Uranium-238	pCi/L	5.3E+02	J	NA	
FSB 99D	Aluminum	µg/L	190		NA	
	Gross alpha	pCi/L	—		1.6E+01	J
	Tritium	pCi/mL	2.2E+01		5.5E+01	
FSB104D	Aluminum	µg/L	34,000	V	NA	
	Americium-241	pCi/L	1.2E+01		NA	
	Curium-243/244	pCi/L	1.1E+01		NA	
	Gross alpha	pCi/L	5.7E+02		NA	
	Iodine-129	pCi/L	3.9E+01		NA	
	Nitrate as nitrogen	µg/L	74,000		NA	
	Nonvolatile beta	pCi/L	6.6E+02	J	NA	
	Strontium-89	pCi/L	2.6E+01		NA	
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	4.8E+03		NA	
	Uranium-233/234	pCi/L	2.5E+02		NA	
	Uranium-238	pCi/L	3.1E+02	J	NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB105DR	Aluminum	µg/L	10,000		NA	
	Gross alpha	pCi/L	4.0E+02		NA	
	Iodine-129	pCi/L	1.7E+01		NA	
	Nitrate as nitrogen	µg/L	23,000	J	NA	
	Nonvolatile beta	pCi/L	4.1E+02		NA	
	Strontium-90	pCi/L	3.4E+01		NA	
	Tritium	pCi/mL	5.5E+02		NA	
	Uranium-233/234	pCi/L	2.2E+02		NA	
	Uranium-235	pCi/L	1.6E+01		NA	
	Uranium-238	pCi/L	5.6E+02		NA	
FSB106D	Aluminum	µg/L	54		NA	
	Bis(2-ethylhexyl) phthalate	µg/L	190		NA	
	Lead	µg/L	51		—	
FSB107D	Aluminum	µg/L	15,000		NA	
	Americium-241	pCi/L	2.9E+01		NA	
	Cadmium	µg/L	6.6		NA	
	Curium-243/244	pCi/L	1.3E+01		NA	
	Gross alpha	pCi/L	1.1E+03	J	NA	
	Iodine-129	pCi/L	1.6E+02		NA	
	Mercury	µg/L	5.4		NA	
	Nitrate as nitrogen	µg/L	69,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Radium-226	pCi/L	2.2E+01	J	NA	
	Strontium-89	pCi/L	6.8E+01		NA	
	Strontium-90	pCi/L	2.5E+02		NA	
	Thorium-234	pCi/L	5.3E+02		NA	
	Trichlorofluoromethane	µg/L	15		NA	
	Tritium	pCi/mL	2.5E+03		NA	
	Uranium-233/234	pCi/L	4.3E+02		NA	
	Uranium-235	pCi/L	2.4E+01		NA	
	Uranium-238	pCi/L	5.5E+02	J	NA	
FSB108D	Aluminum	µg/L	120	V	NA	
FSB109D	Aluminum	µg/L	100	V	NA	
	Tritium	pCi/mL	2.4E+01		2.7E+01	
FSB110D	Aluminum	µg/L	96,000	V	NA	
	Americium-241	pCi/L	9.9E+01		NA	
	Cadmium	µg/L	6.6	J	NA	
	Curium-243/244	pCi/L	1.5E+02		NA	
	Curium-245/246	pCi/L	9.9E+01		NA	
	Gross alpha	pCi/L	1.8E+03	J	NA	
	Iodine-129	pCi/L	1.3E+02		NA	
	Mercury	µg/L	4.8		NA	
	Nitrate as nitrogen	µg/L	290,000		NA	
	Nonvolatile beta	pCi/L	8.7E+02	J	NA	
	Radium-228	pCi/L	3.4E+01	J	NA	
	Strontium-90	pCi/L	3.1E+02	J	NA	
	Thorium-234	pCi/L	6.1E+02		NA	
	Tritium	pCi/mL	1.9E+04		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Uranium-233/234	pCi/L	3.5E+02		NA	
	Uranium-235	pCi/L	2.8E+01		NA	
	Uranium-238	pCi/L	1.3E+03	J	NA	
FSB112D	Aluminum	µg/L	44,000	V	NA	
	Cadmium	µg/L	16		NA	
	Cobalt	µg/L	77		NA	
	Gross alpha	pCi/L	3.4E+02	J	NA	
	Iodine-129	pCi/L	7.3E+01		NA	
	Nitrate as nitrogen	µg/L	160,000		NA	
	Nonvolatile beta	pCi/L	3.1E+03	J	NA	
	Radium-226	pCi/L	9.1E+01		NA	
	Radium-228	pCi/L	4.6E+01	J	NA	
	Strontium-90	pCi/L	1.2E+03	J	NA	
	Tritium	pCi/mL	8.8E+03		NA	
FSB115D	Aluminum	µg/L	110		NA	
	Bis(2-ethylhexyl) phthalate	µg/L	24		NA	
FSB116D	Aluminum	µg/L	160		NA	
FSB117D	Aluminum	µg/L	9,500		NA	
	Gross alpha	pCi/L	6.2E+02	J	NA	
	Iodine-129	pCi/L	4.2E+01		NA	
	Nitrate as nitrogen	µg/L	31,000		NA	
	Nonvolatile beta	pCi/L	3.5E+02		NA	
	Strontium-90	pCi/L	5.9E+01		NA	
	Tritium	pCi/mL	9.3E+02		NA	
	Uranium-233/234	pCi/L	3.5E+02		NA	
	Uranium-235	pCi/L	2.0E+01		NA	
	Uranium-238	pCi/L	3.8E+02		NA	
FSB118D	Tritium	pCi/mL	—		4.8E+02	
FSB119D	Aluminum	µg/L	54,000	V	NA	
	Americium-241	pCi/L	1.6E+01		NA	
	Cadmium	µg/L	5.6		NA	
	Cobalt	µg/L	50		NA	
	Gross alpha	pCi/L	2.1E+03	J	NA	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Radium-226	pCi/L	3.2E+01		NA	
	Radium-228	pCi/L	3.3E+01	J	NA	
	Strontium-90	pCi/L	4.6E+02	J	NA	
	Thorium-234	pCi/L	4.5E+02		NA	
	Tritium	pCi/mL	6.3E+03		NA	
	Uranium-233/234	pCi/L	8.8E+02		NA	
	Uranium-235	pCi/L	4.6E+01		NA	
	Uranium-238	pCi/L	9.4E+02		NA	

Aquifer Zone IIB₂ (Water Table)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB121DR	Aluminum	µg/L	2,200		NA	
	Gross alpha	pCi/L	3.0E+01		2.6E+01	J
	Iodine-129	pCi/L	3.8E+00		NA	
	Lead	µg/L	88		60	
	Nonvolatile beta	pCi/L	8.6E+01		9.2E+01	
	Strontium-90	pCi/L	2.5E+01		NA	
	Tritium	pCi/mL	9.8E+01		1.1E+02	
FSB122D	Aluminum	µg/L	110	V	NA	
	Nitrate as nitrogen	µg/L	—		10,000	
	Thallium	µg/L	4.3	J	NA	
	Tritium	pCi/mL	3.5E+02		3.4E+02	
FSL 1D	Aluminum	µg/L	480		NA	
	Nitrate as nitrogen	µg/L	370,000		—	
	Trichloroethylene	µg/L	8.2		6.5	
	Trichlorofluoromethane	µg/L	NA		32	
	Tritium	pCi/mL	5.3E+01		5.7E+01	
FSL 2D	Aluminum	µg/L	300		NA	
	Lead	µg/L	160		920	
FSL 3D	Aluminum	µg/L	180		NA	
	Nitrate as nitrogen	µg/L	260,000		—	J
	Trichlorofluoromethane	µg/L	NA		12	
	Tritium	pCi/mL	4.8E+01		4.7E+01	
FSL 4D	Aluminum	µg/L	580		NA	
FSL 5D	Aluminum	µg/L	450		NA	
	Lead	µg/L	360		100	V
	Nitrate as nitrogen	µg/L	21,000		16,000	J
	Nonvolatile beta	pCi/L	8.5E+02		6.8E+02	
	Tritium	pCi/mL	4.8E+02		6.4E+02	
FSL 6D	Aluminum	µg/L	420		NA	
	Nitrate as nitrogen	µg/L	38,000		27,000	
	Tritium	pCi/mL	8.7E+02		3.1E+02	
FSL 7D	Aluminum	µg/L	1,200		NA	
	Gross alpha	pCi/L	4.5E+01		NA	
	Nitrate as nitrogen	µg/L	71,000		NA	
	Nonvolatile beta	pCi/L	7.1E+01		NA	
	Tritium	pCi/mL	1.9E+03		NA	
FSL 8D	Trichloroethylene	µg/L	24	J1	—	
	Tritium	pCi/mL	3.0E+01		3.9E+01	
FSL 9D	Aluminum	µg/L	2,600		NA	
	Gross alpha	pCi/L	8.1E+01	J	1.3E+02	
	Nitrate as nitrogen	µg/L	13,000		14,000	
	Nonvolatile beta	pCi/L	2.6E+02		3.2E+02	J
	Tritium	pCi/mL	4.7E+02		4.0E+02	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 78C	Aluminum	µg/L	16,000	V	NA	
	Cadmium	µg/L	16	J	NA	
	Cobalt	µg/L	300		NA	
	Gross alpha	pCi/L	1.6E+02	J	NA	
	Iodine-129	pCi/L	1.2E+02		NA	
	Nickel	µg/L	120		NA	
	Nitrate as nitrogen	µg/L	240,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	Radium-226	pCi/L	5.1E+01		NA	
	Strontium-90	pCi/L	6.2E+02	J	NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	3.9E+02		NA	
	Uranium-235	pCi/L	2.4E+01		NA	
	Uranium-238	pCi/L	1.0E+03	J	NA	
FSB 79C	Aluminum	µg/L	39,000		NA	
	Americium-241	pCi/L	2.1E+01		NA	
	Cadmium	µg/L	27		NA	
	Cobalt	µg/L	140		NA	
	Curium-243/244	pCi/L	2.8E+01		NA	
	Gross alpha	pCi/L	8.0E+02		NA	
	Iodine-129	pCi/L	9.2E+01		NA	
	Nitrate as nitrogen	µg/L	130,000		NA	
	Nonvolatile beta	pCi/L	2.5E+03	J	NA	
	Plutonium-238	pCi/L	2.3E+01		NA	
	Radium-226	pCi/L	4.8E+01	J	NA	
	Strontium-89	pCi/L	2.0E+02		NA	
	Strontium-90	pCi/L	7.2E+02		NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	2.2E+02		NA	
	Uranium-235	pCi/L	1.8E+01		NA	
	Uranium-238	pCi/L	2.3E+02	J	NA	
FSB 87C	Iodine-129	pCi/L	3.3E+00		NA	
	Tritium	pCi/mL	4.7E+02		4.8E+02	
FSB 89C	Dichloromethane	µg/L	14	VV	NA	
	Thallium	µg/L	3.3	J	NA	
FSB 90C	Aluminum	µg/L	73		NA	
	Nitrate as nitrogen	µg/L	11,000	J	14,000	
	Tritium	pCi/mL	5.8E+02		6.1E+02	
FSB 91C	Aluminum	µg/L	28,000	V	NA	
	Cadmium	µg/L	5.4	V	NA	
	Cobalt	µg/L	43		NA	
	Gross alpha	pCi/L	6.2E+01		NA	
	Iodine-129	pCi/L	4.8E+01		NA	
	Nitrate as nitrogen	µg/L	25,000		NA	
	Nonvolatile beta	pCi/L	4.0E+02	V	NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	6.6E+02		NA	
FSB 92C	Aluminum	µg/L	1,200		NA	
	Cadmium	µg/L	5.1		NA	
	Gross alpha	pCi/L	5.2E+01		NA	
	Iodine-129	pCi/L	1.5E+01		NA	
	Nitrate as nitrogen	µg/L	47,000	J	NA	
	Nonvolatile beta	pCi/L	3.8E+02		NA	
	Strontium-89	pCi/L	3.1E+01		NA	
	Strontium-90	pCi/L	9.5E+01		NA	
	Tritium	pCi/mL	1.8E+03		NA	
FSB 93C	Iodine-129	pCi/L	1.7E+01		NA	
	Nitrate as nitrogen	µg/L	37,000		46,000	
	Tritium	pCi/mL	1.5E+03		1.6E+03	
FSB 94C	Aluminum	µg/L	46,000		NA	
	Cadmium	µg/L	23	J	NA	
	Cobalt	µg/L	670		NA	
	Gross alpha	pCi/L	2.2E+02		NA	
	Iodine-129	pCi/L	1.5E+02		NA	
	Nickel	µg/L	180		NA	
	Nitrate as nitrogen	µg/L	250,000		NA	
	Nonvolatile beta	pCi/L	2.4E+03	J	NA	
	Radium-226	pCi/L	3.5E+01	J	NA	
	Radium-228	pCi/L	2.2E+01	J	NA	
	Strontium-90	pCi/L	7.2E+02		NA	
	Tritium	pCi/mL	1.0E+04		NA	
	Uranium-233/234	pCi/L	1.7E+01		NA	
	Uranium-238	pCi/L	1.9E+01	J	NA	
FSB 95CR	Aluminum	µg/L	47,000		NA	
	Americium-241	pCi/L	1.3E+01		NA	
	Cadmium	µg/L	16		NA	
	Cobalt	µg/L	460		NA	
	Curium-243/244	pCi/L	2.6E+01		NA	
	Gross alpha	pCi/L	1.2E+03		NA	
	Iodine-129	pCi/L	2.3E+02		NA	
	Nitrate as nitrogen	µg/L	230,000		NA	
	Nonvolatile beta	pCi/L	2.4E+03		NA	
	Radium-226	pCi/L	8.9E+01		NA	
	Radium-228	pCi/L	2.5E+02		NA	
	Strontium-89	pCi/L	1.9E+02	J2	NA	
	Strontium-90	pCi/L	1.2E+03		NA	
	Tritium	pCi/mL	1.4E+04	V	NA	
	Uranium-233/234	pCi/L	3.5E+02		NA	
	Uranium-235	pCi/L	1.8E+01	R	NA	
	Uranium-238	pCi/L	4.4E+02	R	NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 97C	Aluminum	µg/L	77,000	V	NA	
	Americium-241	pCi/L	5.3E+01		NA	
	Cadmium	µg/L	6.1	J	NA	
	Cobalt	µg/L	320		NA	
	Curium-243/244	pCi/L	3.7E+01		NA	
	Gross alpha	pCi/L	2.0E+03	J	NA	
	Iodine-129	pCi/L	8.6E+01		NA	
	Nitrate as nitrogen	µg/L	240,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	Radium-226	pCi/L	6.3E+01		NA	
	Radium-228	pCi/L	4.4E+01	J	NA	
	Strontium-90	pCi/L	3.4E+02	J	NA	
	Trichloroethylene	µg/L	9.3		NA	
	Tritium	pCi/mL	1.3E+04		NA	
	Uranium-233/234	pCi/L	4.2E+02		NA	
	Uranium-235	pCi/L	2.5E+01		NA	
	Uranium-238	pCi/L	5.7E+02	J	NA	
FSB 98C	Aluminum	µg/L	39,000	V	NA	
	Americium-241	pCi/L	3.4E+01		NA	
	Cobalt	µg/L	350		NA	
	Curium-243/244	pCi/L	3.3E+01		NA	
	Gross alpha	pCi/L	2.1E+02		NA	
	Iodine-129	pCi/L	8.5E+01		NA	
	Nitrate as nitrogen	µg/L	140,000		NA	
	Nonvolatile beta	pCi/L	3.2E+02	J	NA	
	Radium-226	pCi/L	5.2E+01	J	NA	
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	7.9E+03		NA	
	Uranium-233/234	pCi/L	4.5E+02		NA	
	Uranium-235	pCi/L	2.3E+01		NA	
	Uranium-238	pCi/L	6.6E+02	J	NA	
FSB 99C	Aluminum	µg/L	120		NA	
	Gross alpha	pCi/L	2.1E+01		3.7E+01	
	Iodine-129	pCi/L	1.2E+01		NA	
	Nitrate as nitrogen	µg/L	28,000		30,000	
	Nonvolatile beta	pCi/L	8.7E+01		9.0E+01	J
	Strontium-90	pCi/L	1.8E+01		NA	
	Trichloroethylene	µg/L	18		NA	
	Tritium	pCi/mL	1.5E+03		—	
FSB102C	Aluminum	µg/L	1,200		NA	
	Cadmium	µg/L	6.5		NA	
	Cobalt	µg/L	48		NA	
	Iodine-129	pCi/L	2.9E+01		NA	
	Nitrate as nitrogen	µg/L	37,000	J	NA	
	Nonvolatile beta	pCi/L	5.7E+02		NA	
	Strontium-89	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	1.7E+02		NA	
	Tritium	pCi/mL	9.5E+02		NA	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB103C	Iodine-129	pCi/L	5.1E+00		NA	
	Nitrate as nitrogen	µg/L	21,000		25,000	
	Tritium	pCi/mL	5.8E+02		5.9E+02	
FSB104C	Iodine-129	pCi/L	6.0E+00		NA	
	Nitrate as nitrogen	µg/L	45,000		43,000	
	Tritium	pCi/mL	1.2E+03		—	
FSB105C	Aluminum	µg/L	46,000	V	NA	
	Americium-241	pCi/L	2.4E+01		NA	
	Cadmium	µg/L	11		NA	
	Cobalt	µg/L	240		NA	
	Curium-243/244	pCi/L	2.1E+01		NA	
	Gross alpha	pCi/L	7.7E+02	J	NA	
	Iodine-129	pCi/L	6.3E+01		NA	
	Nitrate as nitrogen	µg/L	150,000		NA	
	Nonvolatile beta	pCi/L	1.1E+03	J	NA	
	Radium-226	pCi/L	5.5E+01	J	NA	
	Radium-228	pCi/L	2.6E+01	J	NA	
	Strontium-89	pCi/L	6.0E+01		NA	
	Strontium-90	pCi/L	2.2E+02		NA	
	Tritium	pCi/mL	8.7E+03		NA	
	Uranium-233/234	pCi/L	2.3E+02		NA	
	Uranium-238	pCi/L	2.5E+02	J	NA	
FSB106C	Aluminum	µg/L	4,300	V	NA	
	Cadmium	µg/L	10		NA	
	Cobalt	µg/L	63		NA	
	Gross alpha	pCi/L	4.5E+01	J	NA	
	Iodine-129	pCi/L	1.6E+02		NA	
	Nitrate as nitrogen	µg/L	90,000		NA	
	Nonvolatile beta	pCi/L	1.3E+03	J	NA	
	Radium-226	pCi/L	2.3E+01		NA	
	Strontium-90	pCi/L	4.8E+02	J	NA	
	Tritium	pCi/mL	2.4E+03		NA	
FSB107C	Strontium-90	pCi/L	1.2E+01		NA	
	Tritium	pCi/mL	1.2E+02		1.1E+02	
FSB110C	Aluminum	µg/L	100	VV	NA	
	Iodine-129	pCi/L	2.5E+01		NA	
	Nitrate as nitrogen	µg/L	55,000		53,000	
	Nonvolatile beta	pCi/L	6.7E+01		5.6E+01	
	Strontium-90	pCi/L	1.2E+01		NA	
	Thallium	µg/L	4.2	J	NA	
	Tritium	pCi/mL	1.8E+03		1.4E+03	
FSB111C	Iodine-129	pCi/L	2.0E+00		NA	
	Tritium	pCi/mL	—		4.5E+02	

Aquifer Zone IIB₁ (Barnwell/McBean)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB112C	Aluminum	µg/L	17,000	V	NA	
	Cadmium	µg/L	39		NA	
	Cobalt	µg/L	290		NA	
	Gross alpha	pCi/L	1.7E+02	J	NA	
	Iodine-129	pCi/L	2.2E+02		NA	
	Nitrate as nitrogen	µg/L	210,000		NA	
	Nonvolatile beta	pCi/L	1.8E+03	J	NA	
	Radium-226	pCi/L	9.8E+01		NA	
	Radium-228	pCi/L	3.0E+01	J	NA	
	Strontium-90	pCi/L	9.2E+02	J	NA	
	Tritium	pCi/mL	7.3E+03		NA	
FSB113C	Aluminum	µg/L	140		NA	
	pH	pH	11	JY	11	J1
	Tritium	pCi/mL	6.6E+01		7.0E+01	
FSB115C	Aluminum	µg/L	65		NA	
FSB120C	Aluminum	µg/L	180		NA	
	Gross alpha	pCi/L	1.7E+01	J	—	
	Iodine-129	pCi/L	1.4E+01		NA	
	Nitrate as nitrogen	µg/L	34,000		37,000	
	Tritium	pCi/mL	1.1E+03		1.0E+03	
FSB121C	Tritium	pCi/mL	1.3E+02		1.2E+02	
FSB122C	Aluminum	µg/L	660		NA	
	Gross alpha	pCi/L	2.0E+01	J	1.8E+01	
	Iodine-129	pCi/L	2.2E+01		NA	
	Nitrate as nitrogen	µg/L	60,000		67,000	
	Nonvolatile beta	pCi/L	6.5E+01		9.2E+01	
	Tritium	pCi/mL	1.9E+03		1.7E+03	

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 76B	Iodine-129	pCi/L	3.0E+00		NA	
FSB 78B	Aluminum	µg/L	92	VV	NA	
	Nitrate as nitrogen	µg/L	11,000		11,000	
	Thallium	µg/L	3.6	J	NA	
	Tritium	pCi/mL	2.7E+02		3.0E+02	
FSB 79B	Tritium	pCi/mL	2.4E+01		—	UI
FSB 87B	Tritium	pCi/mL	8.8E+01		—	UI
FSB 96AR	Iodine-129	pCi/L	7.5E+00		NA	

Aquifer Unit IIA (upper Congaree)

<u>Well</u>	<u>Constituent</u>	<u>Unit</u>	<u>1Q95</u>	<u>Mod</u>	<u>2Q95</u>	<u>Mod</u>
FSB 97A	Gross alpha Tritium	pCi/L	–	J	1.6E+01	J1
		pCi/mL	2.2E+02		2.7E+02	
FSB 98AR	Tritium	pCi/mL	2.5E+01		–	UI
FSB 99A	Iodine-129 Tritium	pCi/L	2.6E+00		NA	
		pCi/mL	1.6E+02		7.8E+01	
FSB100A	Tritium	pCi/mL	1.2E+02		1.3E+02	
FSB112A	Tritium	pCi/mL	1.1E+02		1.6E+02	
FSB113A	Aluminum	µg/L	2,100	J	NA	J1
	pH	pH	12		12	
	Tritium	pCi/mL	1.8E+02		1.7E+02	
FSB114A	Aluminum	µg/L	110		NA	
	Tritium	pCi/mL	–		4.9E+02	
FSB120A	Aluminum	µg/L	590		NA	
	Tritium	pCi/mL	6.5E+01		2.3E+01	
HSB 85A	Aluminum	µg/L	–		85	V

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).

^a NA = not analyzed.

^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		02/08/95	04/03/95			
FIELD DATA						
<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>				<u>Unit</u>
Water elevation	217.1	218.2				ft msl
pH	4.9	4.6				pH
Sp. conductance	109	104				µS/cm
Water temperature	18.8	20				°C
Alkalinity as CaCO ₃	0	0				mg/L
Turbidity	3.3	2.2				NTU
Volume purged	6.4	3.7				well volumes
Sampling code						
Synchronous water level	218.1 (03/27/95)	218.5 (06/15/95)				ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	12	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	30	1				1	GE	36	1	V			1	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	380	1			■	0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	110	1			■	0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	170	1			■	2	GE								µg/L
Nitrate as nitrogen	12,000	10			■	2	GE	9,100	10				1	GE	µg/L
pH	4.6	1	J1		■	●	0	4.7	1	J1		■	●	0	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 76 (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.7E+00	1				1	GP	1.2E+01	1				1	GP	pCi/L
Nonvolatile beta	7.1E+00	1				0	GP	1.1E+01	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.6E+00	1	UI			0	GP								pCi/L
Americium-241	-1.5E-02	1	UI			0	GP								pCi/L
Cesium-137	-4.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	8.8E-01	1	UI			0	GP								pCi/L
Curium-242	1.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	-3.4E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.5E-02	1	UI			0	GP								pCi/L
Iodine-129	2.0E-01	1	UI			0	GP								pCi/L
Plutonium-238	3.0E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	4.5E-02	1	UI			0	GP								pCi/L
Radium-226	4.6E+00	1				0	GP								pCi/L
Radium-228	1.2E+00	1				0	GP								pCi/L
Strontium-89	-3.6E-01	1	UI			0	GP								pCi/L
Strontium-90	-2.2E-01	1	UI			0	GP								pCi/L
Technetium-99	2.7E+01	1				0	GP								pCi/L
Thorium-228	3.8E-02	1	UI			0	GP								pCi/L
Thorium-230	1.9E-01	1	UI			0	GP								pCi/L
Thorium-232	5.3E-02	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	2.9E+02	1		■		2	GP	-3.1E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	3.7E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	2.4E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.0E-04					0									pCi/L
Nickel-63	8.8E-01					0									pCi/L
Plutonium-241	1.8E-01					0									pCi/L
Plutonium-242	8.9E-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 76A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/08/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	155.5	156.1	ft msl
pH	7.0	6.5	pH
Sp. conductance	96	115	µS/cm
Water temperature	19	19.9	°C
Alkalinity as CaCO ₃	27	34	mg/L
Turbidity	0.6	0.3	NTU
Volume purged	2.7	2.6	well volumes
Sampling code			
Synchronous water level	156.0 (03/27/95)	155.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	22	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.9	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	2.2	1	J			0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE	<0.65	1				0	GE	µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1	J			0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE	<10	1				0	GE	µg/L
Phenols	<8.3	1	J1			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	<83	1				0	GE	<100	1				0	GE	µg/L
pH	6.7	1	J1	■	●	0	GE	6.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 76A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1				0	GP	5.3E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	1.6E+00	1				0	GP	4.6E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.1E+00	1	UI			0	GP								pCi/L
Americium-241	-1.0E-02	1	UI			0	GP								pCi/L
Cesium-137	7.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	-2.3E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	7.4E-02	1	UI			0	GP								pCi/L
Curium-245/246	-5.2E-03	1	UI			0	GP								pCi/L
Iodine-129	-1.2E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.4E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-7.9E-03	1	UI			0	GP								pCi/L
Radium-226	1.4E+00	1				0	GP								pCi/L
Radium-228	-3.5E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	-9.1E-01	1	UI			0	GP								pCi/L
Technetium-99	5.5E+00	1	UI			0	GP								pCi/L
Thorium-228	2.8E-01	1	UI			0	GP								pCi/L
Thorium-230	3.7E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	-2.3E-01	1	UI			0	GP	-1.8E-04	1	UI			0	GP	pCi/mL
Uranium-233/234	4.3E-02	1	UI			0	GP								pCi/L
Uranium-235	-5.4E-03	1	UI			0	GP								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.2E-04					0									pCi/L
Nickel-63	-2.3E-01					0									pCi/L
Plutonium-241	-3.2E-02					0									pCi/L
Plutonium-242	-1.6E-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 76B

<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>
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 02/08/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	151.8	152.3	ft msl
pH	7.2	6.8	pH
Sp. conductance	107	128	µS/cm
Water temperature	18.4	19.7	°C
Alkalinity as CaCO ₃	37	46	mg/L
Turbidity	1	0.5	NTU
Volume purged	2.9	4.3	well volumes
Sampling code			
Synchronous water level	152.1 (03/27/95)	152.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	17	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.6	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	7.9	1				0	GE								µg/L
Cyanide	<8.3	1	J			0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	390	1				0	GE	330	1				0	GE	µg/L
pH	6.9	1	J1			0	GE	7.0	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<16	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 76B (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.0E+00	1				0	GP	1.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	6.7E-01	1	UI			0	GP	1.4E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.9E-01	1	UI			0	GP								pCi/L
Americium-241	-1.3E-02	1	UI			0	GP								pCi/L
Cesium-137	9.9E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.6E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	8.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	-6.6E-03	1	UI			0	GP								pCi/L
Iodine-129	3.0E+00	1			■	2	GP								pCi/L
Plutonium-238	1.5E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-9.6E-03	1	UI			0	GP								pCi/L
Radium-226	1.3E+00	1				0	GP								pCi/L
Radium-228	-1.0E-01	1	UI			0	GP								pCi/L
Strontium-89	-4.4E-01	1	UI			0	GP								pCi/L
Strontium-90	-2.5E-01	1	UI			0	GP								pCi/L
Technetium-99	2.5E+00	1	UI			0	GP								pCi/L
Thorium-228	8.1E-02	1	UI			0	GP								pCi/L
Thorium-230	1.8E-01	1	UI			0	GP								pCi/L
Thorium-232	6.2E-02	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	1.9E-01	1	UI			0	GP	1.3E-04	1	UI			0	GP	pCi/mL
Uranium-233/234	1.1E-01	1	UI			0	GP								pCi/L
Uranium-235	4.0E-02	1	UI			0	GP								pCi/L
Uranium-238	-5.3E-03	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.6E-04					0									pCi/L
Nickel-63	1.6E-01					0									pCi/L
Plutonium-241	-3.8E-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 76C

<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>
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 02/08/95 04/11/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	212.5	213.5	ft msl
pH	6.3	5.2	pH
Sp. conductance	39	44	µS/cm
Water temperature	18.1	19.8	°C
Alkalinity as CaCO ₃	12	12	mg/L
Turbidity	0.9	0.8	NTU
Volume purged	3.9	3.2	well volumes
Sampling code			
Synchronous water level	213.3 (03/27/95)	213.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	6.0	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.4	1	J			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	11	1				0	GE								µg/L
Cyanide	<8.3	1	J			0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	3.0	1				1	GE								µg/L
Trichlorofluoromethane	9.4	1		■		1	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	17	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,200	1				0	GE	1,300	1				0	GE	µg/L
pH	6.0	1	J1	■	●	0	GE	6.1	1	JY	■	●	0	WA	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 76C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E-01	1	UI			0	GP	5.7E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	7.6E-01	1	UI			0	GP	2.3E+00	1	J1			0	TM	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-4.7E-01	1	UI			0	GP								pCi/L
Americium-241	7.2E-02	1	UI			0	GP								pCi/L
Cesium-137	2.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	8.5E-01	1	UI			0	GP								pCi/L
Curium-242	2.0E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.1E-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	UI			0	GP								pCi/L
Plutonium-238	2.6E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.3E-02	1	UI			0	GP								pCi/L
Radium-226	5.3E-01	1	UI			0	GP								pCi/L
Radium-228	3.6E+00	1				0	GP								pCi/L
Strontium-89	-8.0E-01	1	UI			0	GP								pCi/L
Strontium-90	-3.2E-01	1	UI			0	GP								pCi/L
Technetium-99	4.7E+00	1	UI			0	GP								pCi/L
Thorium-228	7.8E-02	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	UI			0	GP								pCi/L
Thorium-232	-9.1E-03	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	2.9E+00	1				0	GP	3.5E+00	1				0	TM	pCi/mL
Uranium-233/234	3.6E-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	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.2E-05					0									pCi/L
Nickel-63	8.5E-01					0									pCi/L
Plutonium-241	-5.2E-02					0									pCi/L
Plutonium-242	-2.6E-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 77

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/09/95

05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	212.2	214.0	ft msl
pH	3.5		pH
Sp. conductance	565		µS/cm
Water temperature	19.6		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.5		NTU
Volume purged	2.5		well volumes
Sampling code		W	
Synchronous water level	214.6 (03/27/95)	213.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	140	2				0	GE								µg/L
Cadmium, total recoverable	4.9	2	J			1	GE								µg/L
Chromium, total recoverable	<13	2				0	GE								µg/L
Lead, total recoverable	3.5	1	J			0	GE								µg/L
Mercury, total recoverable	1.8	1				1	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<6.7	2				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<13	2				0	GE								µg/L
Copper, total recoverable	48	2				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	16	2				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<27	2				0	GE								µg/L
Zinc, total recoverable	59	2			■	0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	24,000	2				2	GE								µg/L
Nitrate as nitrogen	380,000	400				2	GE								µg/L
pH	3.5	1	J1		●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 77 (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+03	1		■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.8E+01	1				0	GP								pCi/L
Americium-241	4.3E+01	1		■		2	GP								pCi/L
Cesium-137	1.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	5.5E+00	1	UI			0	GP								pCi/L
Curium-242	-6.9E-03	1	UI			0	GP								pCi/L
Curium-243/244	2.2E+01	1		■		2	GP								pCi/L
Curium-245/246	4.4E-01	1	UI			0	GP								pCi/L
Iodine-129	1.9E+02	1		■		2	GP								pCi/L
Plutonium-238	2.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	8.9E-02	1	UI			0	GP								pCi/L
Radium-226	1.0E+01	1	J			1	GP								pCi/L
Radium-228	1.7E+01	1				1	GP								pCi/L
Strontium-89	3.3E+01	1		■		2	GP								pCi/L
Strontium-90	3.7E+02	1		■		2	GP								pCi/L
Technetium-99	5.1E+01	1				0	GP								pCi/L
Thorium-228	2.5E-01	1	UI			0	GP								pCi/L
Thorium-230	3.2E-01	1	UI			0	GP								pCi/L
Thorium-232	7.1E-02	1	UI			0	GP								pCi/L
Thorium-234	3.1E+02	1				1	GP								pCi/L
Tritium	3.8E+03	1		■		2	GP								pCi/mL
Uranium-233/234	4.5E+02	1		■		2	GP								pCi/L
Uranium-235	2.1E+01	1		■		2	GP								pCi/L
Uranium-238	5.0E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.7E-02					0									pCi/L
Nickel-63	5.5E+00					0									pCi/L
Plutonium-241	3.6E-01					0									pCi/L
Plutonium-242	1.8E-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 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 02/20/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	209.1	210.2	ft msl
pH	3.4		pH
Sp. conductance	1,267		µS/cm
Water temperature	21.1		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.4		NTU
Volume purged	4.2		well volumes
Sampling code		W	
Synchronous water level	210.2 (03/27/95)	209.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	540	1	V			0	GE								µg/L
Cadmium, total recoverable	23	1		■		2	GE								µg/L
Chromium, total recoverable	4.5	1				0	GE								µg/L
Lead, total recoverable	1.0	1	J			0	GE								µg/L
Mercury, total recoverable	0.52	1				0	GE								µg/L
Selenium, total recoverable	1.8	1	J			0	GE								µg/L
Silver, total recoverable	0.99	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	2.4	1	J1			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	18	1				0	GE								µg/L
Copper, total recoverable	41	1				0	GE								µg/L
Cyanide	3.2	1	JVVY			0	GE								µg/L
Nickel, total recoverable	29	1				0	GE								µg/L
Phenols	<10	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	150	1		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	38,000	1	V	■		2	GE								µg/L
Nitrate as nitrogen	140,000	160		■		2	GE								µg/L
pH	3.3	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 78 (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.5E+03	1	J	■		2	GP								pCi/L
Nonvolatile beta	3.1E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.6E+01	1				0	GP								pCi/L
Americium-241	8.5E+01	1		■		2	GP								pCi/L
Cesium-137	2.8E+02	1		■		2	GP								pCi/L
Cobalt-60	4.3E+00	1	UI			0	GP								pCi/L
Curium-242	5.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	9.2E+01	1		■		2	GP								pCi/L
Curium-245/246	1.2E+00	1				0	GP								pCi/L
Iodine-129	2.9E+02	1		■		2	GP								pCi/L
Plutonium-238	1.5E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	2.0E-02	1	UI			0	GP								pCi/L
Radium-226	1.8E+01	1				1	GP								pCi/L
Radium-228	5.7E+01	1	J	■		2	GP								pCi/L
Strontium-89	-1.2E+03	1	UJI			0	GP								pCi/L
Strontium-90	2.1E+03	1	J	■		2	GP								pCi/L
Technetium-99	5.5E+01	1				0	GP								pCi/L
Thorium-228	1.8E+00	1				0	GP								pCi/L
Thorium-230	6.0E-01	1	UI			0	GP								pCi/L
Thorium-232	-4.7E-02	1	UI			0	GP								pCi/L
Thorium-234	7.0E+02	1		■		2	GP								pCi/L
Tritium	7.3E+03	1		■		2	GP								pCi/mL
Uranium-233/234	4.8E+01	1		■		2	GP								pCi/L
Uranium-235	2.7E+00	1				0	GP								pCi/L
Uranium-238	5.1E+01	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.8E-01					0									pCi/L
Nickel-63	4.3E+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 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 02/20/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	156.6	156.8	ft msl
pH	6.6	6.6	pH
Sp. conductance	113	99	µS/cm
Water temperature	19.8	19.7	°C
Alkalinity as CaCO ₃	30	30	mg/L
Turbidity	0.3	0.4	NTU
Volume purged	2.4	2.6	well volumes
Sampling code			
Synchronous water level	156.7 (03/27/95)	156.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	23	1	V			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	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	0.075	1	JVV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	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	2.6	1	JVV			0	GE								µg/L
Nickel, total recoverable	<10	1	V			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	<5.0	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.5	1	J			0	GE								µg/L
Nitrate as nitrogen	420	1				0	GE	210	1				0	GE	µg/L
pH	6.7	1	J1	■	●	0	GE	6.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 78A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.2E-01	1	UI			0	GP	7.0E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	3.8E+00	1				0	GP	3.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.0E-01	1	UI			0	GP								pCi/L
Americium-241	5.0E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	-1.0E+00	1	UI			0	GP								pCi/L
Curium-242	1.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	-5.6E-03	1	UI			0	GP								pCi/L
Iodine-129	2.8E-02	1	UI			0	GP								pCi/L
Plutonium-238	3.6E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.5E+00	1				0	GP								pCi/L
Radium-228	-1.9E-01	1	UJI			0	GP								pCi/L
Strontium-89	3.2E-01	1				0	GP								pCi/L
Strontium-90	4.9E-01	1				0	GP								pCi/L
Technetium-99	-2.5E+01	1	UI			0	GP								pCi/L
Thorium-228	-2.5E-02	1	UI			0	GP								pCi/L
Thorium-230	1.2E-01	1	UI			0	GP								pCi/L
Thorium-232	-8.2E-03	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	1.6E+01	1				1	GP	9.4E-03	1	UI			0	GP	pCi/mL
Uranium-233/234	7.3E-02	1	UI			0	GP								pCi/L
Uranium-235	5.2E-03	1	UI			0	GP								pCi/L
Uranium-238	4.2E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.7E-05					0									pCi/L
Nickel-63	-1.0E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 78B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/20/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	155.1	155.1	ft msl
pH	7.8	7.1	pH
Sp. conductance	263	228	µS/cm
Water temperature	19.7	19.8	°C
Alkalinity as CaCO ₃	80	63	mg/L
Turbidity	0.3	0.2	NTU
Volume purged	2.9	5.7	well volumes
Sampling code			
Synchronous water level	155.2 (03/27/95)	155.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.3	1	J			0	GE								µg/L
Barium, total recoverable	48	1	V			0	GE								µg/L
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	2.6	1	J			0	WA								µg/L
Lead, total recoverable	4.8	1	J			0	WA	4.6	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	1.5	1	J			0	GE								µg/L
Silver, total recoverable	0.85	1	J			0	WA								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.1	1	J			0	GE								µg/L
Benzene	<1.7	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	<18	1				0	WA								µg/L
Nickel, total recoverable	<5.4	1				0	WA								µg/L
Phenols	<10	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	3.6	1	J			2	WA								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	3.0	1	JVV			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	92	1	VV	■		2	WA								µg/L
Nitrate as nitrogen	11,000	10		■		2	GE	11,000	10		■		2	GE	µg/L
pH	7.6	1	J1		●	0	GE	7.4	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	2.1	1	JVV			0	WA								µg/L
Dichloromethane	<1.7	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 78B (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+00	1				0	GP	1.8E+00	1				0	GP	pCi/L
Nonvolatile beta	5.6E+00	1				0	GP	2.6E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-5.1E-01	1	UI			0	TM								pCi/L
Americium-241	4.5E-01	1	J1			0	TM								pCi/L
Cesium-137	-8.0E-02	1	UI			0	TM								pCi/L
Cobalt-60	1.3E-01	1	UI			0	GP								pCi/L
Curium-242	2.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.4E-01	1	UI			0	TM								pCi/L
Plutonium-238	0.0E+00	1	UJI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	4.5E-01	1				0	TM								pCi/L
Radium-228	1.1E+00	1	J1			0	TM								pCi/L
Strontium-89	-1.3E-01	1	UI			0	TM								pCi/L
Strontium-90	0.0E+00	1	UI			0	TM								pCi/L
Technetium-99	1.8E+01	1				0	TM								pCi/L
Thorium-228	-1.0E-02	1	UI			0	TM								pCi/L
Thorium-230	1.8E-01	1	JV1			0	TM								pCi/L
Thorium-232	-4.9E-03	1	UI			0	GP								pCi/L
Thorium-234	2.1E+01	1	UI			0	TM								pCi/L
Tritium	2.7E+02	1		■		2	GP	3.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.2E-03	1	UI			0	GP								pCi/L
Uranium-235	-1.0E-02	1	UI			0	TM								pCi/L
Uranium-238	0.0E+00	1	UI			0	TM								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.9E-05					0									pCi/L
Nickel-63	1.3E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 ₁)

SAMPLE DATE 02/20/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	208.3	208.9	ft msl
pH	4.1		pH
Sp. conductance	1,761		µS/cm
Water temperature	19.8		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.3		NTU
Volume purged	1.0		well volumes
Sampling code	X	W	
Synchronous water level	209.0 (03/27/95)	208.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	1.8	1	J			0	GE								µg/L
Barium, total recoverable	560	10	V			0	GE								µg/L
Cadmium, total recoverable	16	10	J	■		2	GE								µg/L
Chromium, total recoverable	<40	10				0	GE								µg/L
Lead, total recoverable	2.6	1	J			0	GE								µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<6.5	10				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	4.3	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	300	10		■		2	GE								µg/L
Copper, total recoverable	11	10	J			0	GE								µg/L
Cyanide	2.9	1	JVV			0	GE								µg/L
Nickel, total recoverable	120	10		■		2	GE								µg/L
Phenols	<10	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	0.85	1	J			0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<100	10				0	GE								µg/L
Zinc, total recoverable	590	10		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	16,000	10	V	■		2	GE								µg/L
Nitrate as nitrogen	240,000	160		■		2	GE								µg/L
pH	4.2	1	J1	■	●	0	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 78C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.1E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	7.4E+00	1	UI			0	GP								pCi/L
Americium-241	8.8E-01	1	UI			0	GP								pCi/L
Cesium-137	1.4E+00	1	UI			0	GP								pCi/L
Cobalt-60	2.2E+00	1	UI			0	GP								pCi/L
Curium-242	-3.0E-03	1	UI			0	GP								pCi/L
Curium-243/244	7.4E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.2E+02	1		■		2	GP								pCi/L
Plutonium-238	1.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.6E-02	1	UI			0	GP								pCi/L
Radium-226	5.1E+01	1		■		2	GP								pCi/L
Radium-228	1.3E+01	1	J			1	GP								pCi/L
Strontium-89	-2.0E+02	1	UJI			0	GP								pCi/L
Strontium-90	6.2E+02	1	J	■		2	GP								pCi/L
Technetium-99	2.1E+02	1				0	GP								pCi/L
Thorium-228	1.1E-01	1	UI			0	GP								pCi/L
Thorium-230	7.6E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.9E-02	1	UI			0	GP								pCi/L
Thorium-234	6.6E+01	1	UI			0	GP								pCi/L
Tritium	8.7E+03	1		■		2	GP								pCi/mL
Uranium-233/234	3.9E+02	1		■		2	GP								pCi/L
Uranium-235	2.4E+01	1		■		2	GP								pCi/L
Uranium-238	1.0E+03	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.2E-03					0									pCi/L
Nickel-63	2.2E+00					0									pCi/L
Plutonium-241	-6.2E-02					0									pCi/L
Plutonium-242	-3.1E-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 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 02/12/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	202.5	202.5	ft msl
pH	3.2		pH
Sp. conductance	1,692		µS/cm
Water temperature	19		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.6		NTU
Volume purged	2.3		well volumes
Sampling code		W	
Synchronous water level	203.1 (03/27/95)	202.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	730	2				0	GE								µg/L
Cadmium, total recoverable	5.7	2	J			2	GE								µg/L
Chromium, total recoverable	<13	2				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.69	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<6.7	2				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	520	2		■		2	GE								µg/L
Copper, total recoverable	60	2				0	GE								µg/L
Cyanide	<8.3	1	Y			0	GE								µg/L
Nickel, total recoverable	62	2		■		1	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<27	2				0	GE								µg/L
Zinc, total recoverable	140	2		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	61,000	2		■		2	GE								µg/L
Nitrate as nitrogen	150,000	160		■		2	GE								µg/L
pH	3.5	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 79 (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+03	1		■		2	GP								pCi/L
Nonvolatile beta	8.1E+02	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	6.0E+01	1		■		2	GP								pCi/L
Cesium-137	3.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.9E+00	1	UI			0	GP								pCi/L
Curium-242	5.5E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.4E+02	1		■		2	GP								pCi/L
Curium-245/246	1.4E+00	1				0	GP								pCi/L
Iodine-129	2.4E+02	1		■		2	GP								pCi/L
Plutonium-238	1.8E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.2E-02	1	UI			0	GP								pCi/L
Radium-226	1.9E+01	1	J			1	GP								pCi/L
Radium-228	1.5E+01	1				1	GP								pCi/L
Strontium-89	-3.2E+01	1	UI			0	GP								pCi/L
Strontium-90	1.9E+02	1		■		2	GP								pCi/L
Technetium-99	1.1E+02	1				0	GP								pCi/L
Thorium-228	2.6E-01	1	UI			0	GP								pCi/L
Thorium-230	2.3E-01	1	UI			0	GP								pCi/L
Thorium-232	8.0E-02	1	UI			0	GP								pCi/L
Thorium-234	3.1E+02	1				1	GP								pCi/L
Tritium	1.0E+04	1		■		2	GP								pCi/mL
Uranium-233/234	2.3E+02	1		■		2	GP								pCi/L
Uranium-235	1.8E+01	1		■		2	GP								pCi/L
Uranium-238	4.7E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.2E-01					0									pCi/L
Nickel-63	2.9E+00					0									pCi/L
Plutonium-241	-4.7E-02					0									pCi/L
Plutonium-242	-2.4E-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 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 02/08/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	158.2	158.7	ft msl
pH	6.3	6.2	pH
Sp. conductance	85	77	µS/cm
Water temperature	18.7	19.5	°C
Alkalinity as CaCO ₃	24	22	mg/L
Turbidity	0.3	0.5	NTU
Volume purged	3.4	2.9	well volumes
Sampling code			
Synchronous water level	158.7 (03/27/95)	158.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	18	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1	J			0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	240	1				0	GE	270	1				0	GE	µg/L
pH	6.4	1	J1	■	●	0	GE	6.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 79A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.2E-01	1	UI			0	GP	2.9E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	5.4E-01	1	UI			0	GP	2.5E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.2E+00	1	UI			0	GP								pCi/L
Americium-241	-2.0E-02	1	UI			0	GP								pCi/L
Cesium-137	5.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.7E-01	1	UI			0	GP								pCi/L
Curium-242	3.3E-02	1	UI			0	GP								pCi/L
Curium-243/244	4.7E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	2.3E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.9E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.3E-02	1	UI			0	GP								pCi/L
Radium-226	1.6E+00	1				0	GP								pCi/L
Radium-228	2.4E-01	1	UI			0	GP								pCi/L
Strontium-89	-4.1E-01	1	UI			0	GP								pCi/L
Strontium-90	-4.4E-01	1	UI			0	GP								pCi/L
Technetium-99	1.1E+01	1	UI			0	GP								pCi/L
Thorium-228	-4.8E-02	1	UI			0	GP								pCi/L
Thorium-230	6.6E-01	1	UI			0	GP								pCi/L
Thorium-232	1.4E-01	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	8.1E+00	1				0	GP	1.1E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	3.4E-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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.4E-04					0									pCi/L
Nickel-63	4.7E-01					0									pCi/L
Plutonium-241	-5.2E-02					0									pCi/L
Plutonium-242	-2.6E-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 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	02/08/95	04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	158.4	158.9	ft msl
pH	6.9	6.6	pH
Sp. conductance	170	150	µS/cm
Water temperature	18.6	19.5	°C
Alkalinity as CaCO ₃	56	57	mg/L
Turbidity	0.2	0.7	NTU
Volume purged	2.8	2.8	well volumes
Sampling code			
Synchronous water level	159.0 (03/27/95)	159.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	29	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1	J			0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,100	1				0	GE	1,000	1				0	GE	µg/L
pH	7.1	1	J1			0	GE	7.2	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 79B (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.3E-01	1	UI			0	GP	6.7E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	9.9E-01	1	UI			0	GP	4.5E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.0E+00	1	UI			0	GP								pCi/L
Americium-241	8.1E-02	1	UI			0	GP								pCi/L
Cesium-137	1.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	3.9E-02	1	UI			0	GP								pCi/L
Curium-242	1.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	8.0E-01	1	UI			0	GP								pCi/L
Plutonium-238	6.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.6E-02	1	UI			0	GP								pCi/L
Radium-226	1.8E+00	1				0	GP								pCi/L
Radium-228	5.7E-01	1	UI			0	GP								pCi/L
Strontium-89	-7.3E-01	1	UI			0	GP								pCi/L
Strontium-90	-3.7E-01	1	UI			0	GP								pCi/L
Technetium-99	8.1E+00	1	UI			0	GP								pCi/L
Thorium-228	1.0E-01	1	UI			0	GP								pCi/L
Thorium-230	3.9E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.2E-02	1	UI			0	GP								pCi/L
Thorium-234	6.2E+01	1	UI			0	GP								pCi/L
Tritium	2.4E+01	1		■		2	GP	2.6E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	1.1E-01	1	UI			0	GP								pCi/L
Uranium-235	3.8E-02	1	UI			0	GP								pCi/L
Uranium-238	3.8E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.6E-05					0									pCi/L
Nickel-63	3.9E-02					0									pCi/L
Plutonium-241	1.0E-01					0									pCi/L
Plutonium-242	5.2E-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 79C

<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>
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	02/08/95	05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	196.9	196.8	ft msl
pH	3.4		pH
Sp. conductance	1,235		µS/cm
Water temperature	18.6		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.2		NTU
Volume purged	2.2		well volumes
Sampling code		W	
Synchronous water level	197.3 (03/27/95)	196.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	530	3				0	GE								µg/L
Cadmium, total recoverable	27	3		■		2	GE								µg/L
Chromium, total recoverable	<20	3				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.73	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<10	3				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	140	3		■		2	GE								µg/L
Copper, total recoverable	42	3				0	GE								µg/L
Cyanide	<8.3	1	JV		●	0	GE								µg/L
Nickel, total recoverable	40	3				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<40	3				0	GE								µg/L
Zinc, total recoverable	110	3		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	39,000	3		■		2	GE								µg/L
Nitrate as nitrogen	130,000	160		■		2	GE								µg/L
pH	3.7	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 79C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.0E+02	1		■		2	GP								pCi/L
Nonvolatile beta	2.5E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	2.1E+01	1		■		2	GP								pCi/L
Cesium-137															pCi/L
Cobalt-60	4.5E+00	1				0	GP								pCi/L
Curium-242	-1.1E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.8E+01	1		■		2	GP								pCi/L
Curium-245/246	1.2E+00	1				0	GP								pCi/L
Iodine-129	9.2E+01	1		■		2	GP								pCi/L
Plutonium-238	2.3E+01	1		■		2	GP								pCi/L
Plutonium-239/240	3.6E-01	1	UI			0	GP								pCi/L
Radium-226	4.8E+01	1	J	■		2	GP								pCi/L
Radium-228	1.3E+01	1				1	GP								pCi/L
Strontium-89	2.0E+02	1		■		2	GP								pCi/L
Strontium-90	7.2E+02	1		■		2	GP								pCi/L
Technetium-99	1.0E+02	1				0	GP								pCi/L
Thorium-228	1.8E+00	1				0	GP								pCi/L
Thorium-230	7.4E-01	1	UI			0	GP								pCi/L
Thorium-232	7.2E-02	1	UI			0	GP								pCi/L
Thorium-234	1.6E+02	1	UI			0	GP								pCi/L
Tritium	8.7E+03	1		■		2	GP								pCi/mL
Uranium-233/234	2.2E+02	1		■		2	GP								pCi/L
Uranium-235	1.8E+01	1		■		2	GP								pCi/L
Uranium-238	2.3E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.5E-02					0									pCi/L
Nickel-63	4.5E+00					0									pCi/L
Plutonium-241	1.4E+00					0									pCi/L
Plutonium-242	7.1E-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 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	02/09/95	04/11/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	154.0	128.2	ft msl
pH	6.8	6.2	pH
Sp. conductance	85	89	µS/cm
Water temperature	19.4	20.6	°C
Alkalinity as CaCO ₃	47	32	mg/L
Turbidity	0.7	0.3	NTU
Volume purged	2.6	3.3	well volumes
Sampling code			
Synchronous water level	154.7 (03/27/95)	154.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	17	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	3.6	1	J			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	18	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	52	1	J			0	GE	600	1	Y			0	WA	µg/L
pH	6.5	1	J1	■	●	0	GE	6.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 87A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E-01	1	UI			0	GP	1.5E+00	1	J1			0	TM	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	2.5E+00	1				0	TM	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.4E-01	1	UI			0	GP								pCi/L
Americium-241	8.1E-03	1	UI			0	GP								pCi/L
Cesium-137	-5.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	-7.2E-01	1	UI			0	GP								pCi/L
Curium-242	-1.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.7E-02	1	UI			0	GP								pCi/L
Iodine-129	-6.1E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.9E-03	1	UI			0	GP								pCi/L
Radium-226	5.1E-01	1	UI			0	GP								pCi/L
Radium-228	-1.8E+00	1	UI			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	-6.4E-01	1	UI			0	GP								pCi/L
Technetium-99	1.6E+00	1	UI			0	GP								pCi/L
Thorium-228	-7.5E-02	1	UI			0	GP								pCi/L
Thorium-230	8.6E-01	1	UI			0	GP								pCi/L
Thorium-232	8.7E-02	1	UI			0	GP								pCi/L
Thorium-234	5.3E+01	1	UI			0	GP								pCi/L
Tritium	1.6E+00	1				0	GP	5.3E+00	1				0	TM	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	-4.6E-03	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.8E-05					0									pCi/L
Nickel-63	-7.2E-01					0									pCi/L
Plutonium-241	-2.4E-02					0									pCi/L
Plutonium-242	-1.2E-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 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 02/09/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	150.8	151.1	ft msl
pH	6.2	6.1	pH
Sp. conductance	73	82	µS/cm
Water temperature	19	20.5	°C
Alkalinity as CaCO ₃	1	6	mg/L
Turbidity	0.7	0.5	NTU
Volume purged	3.8	4.8	well volumes
Sampling code			
Synchronous water level	151.1 (03/27/95)	151.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	<5.0	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	6.4	1	J			0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	5,700	4				1	GE	5,400	4				1	GE	µg/L
pH	6.2	1	J1	■	●	0	GE	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 87B (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.4E-01	1	UI			0	GP	1.1E+00	1	J			0	GP	pCi/L
Nonvolatiles beta	2.6E+00	1				0	GP	3.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.4E+00	1	UI			0	GP								pCi/L
Americium-241	2.0E-02	1	UI			0	GP								pCi/L
Cesium-137	8.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	6.2E-01	1	UI			0	GP								pCi/L
Curium-242	-2.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	-4.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.1E-02	1	UI			0	GP								pCi/L
Iodine-129	6.4E-01	1	UI			0	GP								pCi/L
Plutonium-238	-3.8E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.3E-01	1	UI			0	GP								pCi/L
Radium-226	6.0E-01	1	UI			0	GP								pCi/L
Radium-228	-1.4E+00	1	UI			0	GP								pCi/L
Strontium-89	-3.5E-01	1	UI			0	GP								pCi/L
Strontium-90	-2.4E-01	1	UI			0	GP								pCi/L
Technetium-99	1.4E+01	1	UI			0	GP								pCi/L
Thorium-228	3.6E-03	1	UI			0	GP								pCi/L
Thorium-230	3.5E-01	1	UI			0	GP								pCi/L
Thorium-232	7.7E-02	1	UI			0	GP								pCi/L
Thorium-234	4.4E+00	1	UI			0	GP								pCi/L
Tritium	8.8E+01	1		■		2	GP	8.6E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	0.0E+00	1	UI			0	GP								pCi/L
Uranium-235	-5.8E-03	1	UI			0	GP								pCi/L
Uranium-238	4.6E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.2E-04					0									pCi/L
Nickel-63	6.2E-01					0									pCi/L
Plutonium-241	9.2E-01					0									pCi/L
Plutonium-242	4.6E-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 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 02/09/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	208.4	209.5	ft msl
pH	6.2	6.0	pH
Sp. conductance	78	90	µS/cm
Water temperature	19.7	20.5	°C
Alkalinity as CaCO ₃	9	5	mg/L
Turbidity	0.9	0.5	NTU
Volume purged	2.9	3.5	well volumes
Sampling code			
Synchronous water level	209.4 (03/27/95)	209.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	15	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	7.2	1				0	GE	8.9	1	V			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	29	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	1.5	1	J			0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	15	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	7,700	4				1	GE	7,000	10				1	GE	µg/L
pH	5.9	1	J1	■	●	0	GE	6.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 87C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.6E-01	1				0	GP	8.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.1E+00	1				0	GP	2.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-3.8E-02	1	UI			0	GP								pCi/L
Americium-241	-2.4E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.4E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.3E+00	1	UI			0	GP								pCi/L
Curium-242	-2.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.3E+00	1		■		2	GP								pCi/L
Plutonium-238	1.2E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-6.7E-03	1	UI			0	GP								pCi/L
Radium-226	8.8E-01	1	UI			0	GP								pCi/L
Radium-228	-3.9E-01	1	UI			0	GP								pCi/L
Strontium-89	-4.7E-02	1	UI			0	GP								pCi/L
Strontium-90	-3.1E-01	1	UI			0	GP								pCi/L
Technetium-99	5.1E+00	1	UI			0	GP								pCi/L
Thorium-228	-2.7E-02	1	UI			0	GP								pCi/L
Thorium-230	8.3E-02	1	UI			0	GP								pCi/L
Thorium-232	-2.0E-02	1	UI			0	GP								pCi/L
Thorium-234	1.9E+02	1				0	GP								pCi/L
Tritium	4.7E+02	1		■		2	GP	4.8E+02	1		■		2	GP	pCi/mL
Uranium-233/234	1.1E-01	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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.7E-05					0									pCi/L
Nickel-63	1.3E+00					0									pCi/L
Plutonium-241	-2.7E-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 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 02/10/95

04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation			ft msl
pH	4.7	4.4	pH
Sp. conductance	84	58	µS/cm
Water temperature	6.2	21.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2.2	0.3	NTU
Volume purged			well volumes
Sampling code	X		
Synchronous water level			ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	27	1				0	GE								µg/L
Cadmium, total recoverable	2.1	1	J			0	GE	1.7	1	J			0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	6.0	1				0	GE	3.0	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	230	1		■		0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	62	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1		■		2	GE								µg/L
Nitrate as nitrogen	3,400	4				0	GE	3,000	4				0	GE	µg/L
pH	5.1	1	J1	■	●	0	GE	4.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 87D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.5E+01	1		■		2	GP	5.2E+01	1	J	■		2	GP	pCi/L
Nonvolatile beta	2.3E+01	1				0	GP	3.7E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	7.5E-02	1	UI			0	GP								pCi/L
Cesium-137	2.2E+00	1				0	GP								pCi/L
Cobalt-60	-3.8E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-1.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	-1.1E-02	1	UI			0	GP								pCi/L
Iodine-129	2.9E+01	1		■		2	GP								pCi/L
Plutonium-238	5.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.9E-02	1	UI			0	GP								pCi/L
Radium-226	1.9E+00	1				0	GP								pCi/L
Radium-228	1.7E+00	1				0	GP								pCi/L
Strontium-89	1.4E+00	1				0	GP								pCi/L
Strontium-90	4.3E+00	1				1	GP								pCi/L
Technetium-99	-1.8E+01	1	UI			0	GP								pCi/L
Thorium-228	8.1E-02	1	UI			0	GP								pCi/L
Thorium-230	-2.8E-02	1	UI			0	GP								pCi/L
Thorium-232	-4.2E-02	1	UI			0	GP								pCi/L
Thorium-234	1.8E+02	1				0	GP								pCi/L
Tritium	3.6E+01	1		■		2	GP	2.9E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	9.3E+00	1				1	GP								pCi/L
Uranium-235	5.1E-01	1	UI			0	GP								pCi/L
Uranium-238	1.9E+01	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.9E-05					0									pCi/L
Nickel-63	-3.8E-01					0									pCi/L
Plutonium-241	1.5E-01					0									pCi/L
Plutonium-242	7.7E-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 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 02/14/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	212.4	213.3	ft msl
pH	5.8	5.3	pH
Sp. conductance	39	43	µS/cm
Water temperature	19.4	19.8	°C
Alkalinity as CaCO ₃	8	6	mg/L
Turbidity	0.5	0.1	NTU
Volume purged	3.0	4.8	well volumes
Sampling code			
Synchronous water level	213.3 (03/27/95)	213.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	9.8	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	2.7	1				1	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	1.3	1	J			0	GE								µg/L
Trichlorofluoromethane	2.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	13	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,700	1				0	GE	1,500	1				0	GE	µg/L
pH	5.7	1	J1	■	●	0	GE	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.8E-01	1				0	GP	3.6E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	8.4E-01	1	UI			0	GP	6.0E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.3E-01	1	UI			0	GP								pCi/L
Americium-241	8.7E-02	1	UI			0	GP								pCi/L
Cesium-137	2.6E+00	1	UI			0	GP								pCi/L
Cobalt-60	8.3E-01	1	UI			0	GP								pCi/L
Curium-242	-1.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	-9.9E-03	1	UI			0	GP								pCi/L
Curium-245/246	5.0E-02	1	UI			0	GP								pCi/L
Iodine-129	-2.7E-02	1	UI			0	GP								pCi/L
Plutonium-238	-5.1E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	3.1E-01	1	UI			0	GP								pCi/L
Radium-228	-1.2E+00	1	UJI			0	GP								pCi/L
Strontium-89	-3.3E-01	1	UI			0	GP								pCi/L
Strontium-90	-1.8E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.6E+01	1	UI			0	GP								pCi/L
Thorium-228	7.5E-02	1	UI			0	GP								pCi/L
Thorium-230	2.0E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	4.0E+01	1	UI			0	GP								pCi/L
Tritium	1.7E+01	1				1	GP	1.4E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	-2.4E-02	1	UI			0	GP								pCi/L
Uranium-235	-1.6E-02	1	UI			0	GP								pCi/L
Uranium-238	2.3E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.0E-05					0									pCi/L
Nickel-63	8.3E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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	02/15/95	05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	216.2	217.6	ft msl
pH			pH
Sp. conductance			µS/cm
Water temperature			°C
Alkalinity as CaCO ₃			mg/L
Turbidity			NTU
Volume purged	1.4		well volumes
Sampling code	P	W	
Synchronous water level	217.4 (03/27/95)	217.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 88D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 89C

<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>
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 02/16/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	211.9	212.4	ft msl
pH	5.8	5.5	pH
Sp. conductance	57	52	µS/cm
Water temperature	19.5	20.1	°C
Alkalinity as CaCO ₃	10	11	mg/L
Turbidity	0.6	0.5	NTU
Volume purged	3.9	3.3	well volumes
Sampling code			
Synchronous water level	212.6 (03/27/95)	212.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	11	1				0	WA								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	3.7	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	0.37	1	J			0	WA								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	4.8	1	J			0	WA								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<5.4	1				0	WA								µg/L
Phenols	<8.3	1	J1			0	GE								µg/L
Tetrachloroethylene	1.7	1	J			0	WA								µg/L
Thallium, total recoverable	3.3	1	J			2	WA								µg/L
Trichloroethylene	1.8	1				0	GE								µg/L
Trichlorofluoromethane	6.6	1			■	1	GE								µg/L
Vanadium, total recoverable	<13	1				0	WA								µg/L
Zinc, total recoverable	5.9	1	JVV			0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,700	10				0	WA	1,600	1				0	GE	µg/L
pH	5.9	1	J	■	●	0	WA	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.4	1	JVV			1	WA								µg/L
Dichloromethane	14	1	VV	■		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 89C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.0E-01	1				0	TM	4.2E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	2.0E-01	1	UI			0	TM	1.2E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-7.6E-01	1	UI			0	TM								pCi/L
Americium-241	4.5E-01	1	V			0	TM								pCi/L
Cesium-137	-1.4E-01	1	UI			0	TM								pCi/L
Cobalt-60	-4.9E-01	1	UI			0	GP								pCi/L
Curium-242	-9.7E-03	1	UI			0	GP								pCi/L
Curium-243/244	-4.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-1.1E-01	1	UI			0	TM								pCi/L
Plutonium-238	0.0E+00	1	UJI			0	GP								pCi/L
Plutonium-239/240	-8.8E-03	1	UI			0	GP								pCi/L
Radium-226	4.2E-01	1				0	TM								pCi/L
Radium-228	3.0E-01	1	UI			0	TM								pCi/L
Strontium-89	-3.5E-01	1	UI			0	TM								pCi/L
Strontium-90	-1.8E-01	1	UI			0	GP								pCi/L
Technetium-99	1.1E+00	1	UI			0	TM								pCi/L
Thorium-228	2.0E-02	1	UI			0	TM								pCi/L
Thorium-230	1.0E-02	1	UI			0	TM								pCi/L
Thorium-232	0.0E+00	1	UI			0	TM								pCi/L
Thorium-234	3.4E+02	1				1	GP								pCi/L
Tritium	1.6E+01	1				1	TM	1.6E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	2.8E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	TM								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.4E-04					0									pCi/L
Nickel-63	-4.9E-01					0									pCi/L
Plutonium-241	-3.5E-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 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 02/09/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	215.5	216.9	ft msl
pH	3.7		pH
Sp. conductance	310		µS/cm
Water temperature	20.2		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	4.6		NTU
Volume purged	4.3		well volumes
Sampling code		W	
Synchronous water level	216.7 (03/27/95)	216.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	62	1				0	GE								µg/L
Cadmium, total recoverable	4.8	1				1	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	3.9	1	J			0	GE								µg/L
Mercury, total recoverable	4.8	1		■		2	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	13	1				0	GE								µg/L
Copper, total recoverable	19	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	9.6	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	3.3	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	26	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	6,600	1		■		2	GE								µg/L
Nitrate as nitrogen	32,000	20		■		2	GE								µg/L
pH	4.0	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 89D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+02	1		■		2	GP								pCi/L
Nonvolatile beta	1.0E+03	1		■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	1.1E+01	1		■		2	GP								pCi/L
Cesium-137	8.2E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.4E+00	1				0	GP								pCi/L
Curium-242	7.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	8.0E+00	1				1	GP								pCi/L
Curium-245/246	1.3E+00	1				0	GP								pCi/L
Iodine-129	1.4E+02	1		■		2	GP								pCi/L
Plutonium-238	4.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	8.1E-02	1	UI			0	GP								pCi/L
Radium-226	5.9E+00	1				0	GP								pCi/L
Radium-228	5.9E+00	1				0	GP								pCi/L
Strontium-89	-9.3E+01	1	UI			0	GP								pCi/L
Strontium-90	4.3E+02	1		■		2	GP								pCi/L
Technetium-99	1.5E+01	1	UI			0	GP								pCi/L
Thorium-228	1.2E-01	1	UI			0	GP								pCi/L
Thorium-230	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-232	-7.2E-03	1	UI			0	GP								pCi/L
Thorium-234	2.0E+02	1				0	GP								pCi/L
Tritium	1.8E+03	1		■		2	GP								pCi/mL
Uranium-233/234	9.1E+01	1		■		2	GP								pCi/L
Uranium-235	3.6E+00	1				0	GP								pCi/L
Uranium-238	1.1E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.4E-02					0									pCi/L
Nickel-63	2.4E+00					0									pCi/L
Plutonium-241	3.3E-01					0									pCi/L
Plutonium-242	1.6E-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 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 02/14/95 04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	214.6	211.5	ft msl
pH	6.7	6.1	pH
Sp. conductance	170	167	µS/cm
Water temperature	19.4	20.1	°C
Alkalinity as CaCO ₃	47	18	mg/L
Turbidity	0.5	0.3	NTU
Volume purged	3.2	2.4	well volumes
Sampling code			
Synchronous water level	211.4 (03/27/95)	211.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	44	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	0.92	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.7	1	J			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	4.4	1	J			0	GE								µg/L
Phenols	<8.3	1	J3			0	GE								µg/L
Tetrachloroethylene	1.4	1	J			0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	1.4	1	J			0	GE								µg/L
Trichlorofluoromethane	2.0	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	8.2	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	73	1		■		2	GE								µg/L
Nitrate as nitrogen	11,000	10	J	■		2	GE	14,000	10		■		2	GE	µg/L
pH	6.8	1	J1	■	●	0	GE	6.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 90C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.9E+00	1				0	GP	2.4E+00	1				0	GP	pCi/L
Nonvolatile beta	1.9E+01	1				0	GP	1.9E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.2E+00	1	UI			0	GP								pCi/L
Americium-241	1.5E-01	1	UI			0	GP								pCi/L
Cesium-137	2.2E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.4E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	2.9E-02	1	UI			0	GP								pCi/L
Curium-245/246	7.6E-02	1	UI			0	GP								pCi/L
Iodine-129	1.1E+00	1	UI			0	GP								pCi/L
Plutonium-238	3.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-9.9E-03	1	UI			0	GP								pCi/L
Radium-226	1.2E+00	1				0	GP								pCi/L
Radium-228	-2.4E-01	1	UJI			0	GP								pCi/L
Strontium-89	5.0E-01	1				0	GP								pCi/L
Strontium-90	2.5E+00	1				0	GP								pCi/L
Technetium-99	4.2E+00	1	UI			0	GP								pCi/L
Thorium-228	1.4E-01	1	UI			0	GP								pCi/L
Thorium-230	2.0E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	8.4E+01	1	UI			0	GP								pCi/L
Tritium	5.8E+02	1		■		2	GP	6.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234	9.7E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	4.1E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.7E-05					0									pCi/L
Nickel-63	1.4E+00					0									pCi/L
Plutonium-241	-4.0E-02					0									pCi/L
Plutonium-242	-2.0E-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 FSB 90D

<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>
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 02/14/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	215.7	215.8	ft msl
pH	3.6		pH
Sp. conductance	702		µS/cm
Water temperature	18.1		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	2.5		NTU
Volume purged	0.86		well volumes
Sampling code	I	W	
Synchronous water level	215.7 (03/27/95)		ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	190	1				0	GE								µg/L
Cadmium, total recoverable	7.2	1				2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	45	1				1	GE								µg/L
Mercury, total recoverable	14	2	V			2	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	5.4	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	13	1				0	GE								µg/L
Copper, total recoverable	61	1				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	19	1				0	GE								µg/L
Phenols	<8.3	1	J1			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	79	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	29,000	1				2	GE								µg/L
Nitrate as nitrogen	97,000	80				2	GE								µg/L
pH	3.8	1	J1			1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 90D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.2E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.1E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.0E+01	1				0	GP								pCi/L
Americium-241	1.9E+01	1		■		2	GP								pCi/L
Cesium-137	9.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	0.0E+00	1	UI			0	GP								pCi/L
Curium-242	-4.6E-03	1	UI			0	GP								pCi/L
Curium-243/244	7.4E+00	1				1	GP								pCi/L
Curium-245/246	9.5E-01	1	UI			0	GP								pCi/L
Iodine-129	2.2E+02	1		■		2	GP								pCi/L
Plutonium-238	1.8E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	4.5E-01	1	UI			0	GP								pCi/L
Radium-226	2.0E+01	1	J			1	GP								pCi/L
Radium-228	2.5E+01	1	J	■		2	GP								pCi/L
Strontium-89	-3.7E+01	1	UI			0	GP								pCi/L
Strontium-90	3.5E+02	1		■		2	GP								pCi/L
Technetium-99	1.0E+02	1				0	GP								pCi/L
Thorium-228	1.1E+00	1				0	GP								pCi/L
Thorium-230	2.1E-01	1	UI			0	GP								pCi/L
Thorium-232	7.0E-02	1	UI			0	GP								pCi/L
Thorium-234	3.4E+02	1				1	GP								pCi/L
Tritium	8.2E+03	1		■		2	GP								pCi/mL
Uranium-233/234	3.3E+02	1		■		2	GP								pCi/L
Uranium-235	1.4E+01	1				1	GP								pCi/L
Uranium-238	3.7E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.2E-02					0									pCi/L
Nickel-63	0.0E+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 91C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 03/03/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	211.2	211.7	ft msl
pH	5.4		pH
Sp. conductance	209		µS/cm
Water temperature	17.7		°C
Alkalinity as CaCO ₃	9		mg/L
Turbidity	272		NTU
Volume purged	0.71		well volumes
Sampling code	X	W	
Synchronous water level	211.7 (03/27/95)	211.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	65	1	V			0	GE								µg/L
Cadmium, total recoverable	5.4	1	V			2	GE								µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	31	1				1	GE								µg/L
Mercury, total recoverable	0.67	1				0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<5.0	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	43	1				2	GE								µg/L
Copper, total recoverable	99	1	V			0	GE								µg/L
Cyanide	<20	1	V			0	GE								µg/L
Nickel, total recoverable	31	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	2.0	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1	V			0	GE								µg/L
Zinc, total recoverable	130	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	28,000	1	V			2	GE								µg/L
Nitrate as nitrogen	25,000	20				2	GE								µg/L
pH	5.4	1	J1			0	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1	J1			0	GE								µg/L
Dichloromethane	<1.7	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 91C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.2E+01	1		■		2	GP								pCi/L
Nonvolatile beta	4.0E+02	1	V	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.9E+00	1	UI			0	GP								pCi/L
Americium-241	1.4E-01	1	UI			0	GP								pCi/L
Cesium-137	2.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.3E+00	1	UI			0	GP								pCi/L
Curium-242	-1.0E-04	1	UI			0	GP								pCi/L
Curium-243/244	1.1E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	4.8E+01	1		■		2	GP								pCi/L
Plutonium-238	-1.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.2E+01	1	J			1	GP								pCi/L
Radium-228	3.0E+00	1	J			0	GP								pCi/L
Strontium-89	5.2E+00	1				0	GP								pCi/L
Strontium-90	1.6E+02	1		■		2	GP								pCi/L
Technetium-99	2.4E+01	1	UI			0	GP								pCi/L
Thorium-228	1.1E-01	1	UI			0	GP								pCi/L
Thorium-230	1.6E-01	1	UI			0	GP								pCi/L
Thorium-232	2.6E-02	1	UI			0	GP								pCi/L
Thorium-234	3.4E+01	1	UI			0	GP								pCi/L
Tritium	6.6E+02	1		■		2	GP								pCi/mL
Uranium-233/234	7.6E+00	1				1	GP								pCi/L
Uranium-235	1.9E-01	1	UI			0	GP								pCi/L
Uranium-238	7.2E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.4E-04					0									pCi/L
Nickel-63	1.3E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 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 02/15/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	213.3	214.8	ft msl
pH	3.9		pH
Sp. conductance	195		µS/cm
Water temperature	19.7		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	4.9		NTU
Volume purged	2.9		well volumes
Sampling code		W	
Synchronous water level	214.6 (03/27/95)	214.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	53	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.28	1	J			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	6.4	1	J			0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	12	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	7,200	1		■		2	GE								µg/L
Nitrate as nitrogen	18,000	10	J	■		2	GE								µg/L
pH	3.8	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 91D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.9E+02	1		■		2	GP								pCi/L
Nonvolatile beta	1.1E+02	1		■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.7E+00	1	UI			0	GP								pCi/L
Americium-241	3.1E+00	1				0	GP								pCi/L
Cesium-137	1.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	3.8E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	3.0E+00	1				0	GP								pCi/L
Curium-245/246	2.1E-01	1	UI			0	GP								pCi/L
Iodine-129	2.4E+01	1		■		2	GP								pCi/L
Plutonium-238	-5.4E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.4E-03	1	UI			0	GP								pCi/L
Radium-226	1.6E+00	1				0	GP								pCi/L
Radium-228	3.3E+00	1	J			0	GP								pCi/L
Strontium-89	1.5E+00	1				0	GP								pCi/L
Strontium-90	2.3E+01	1		■		2	GP								pCi/L
Technetium-99	-1.0E+01	1	UI			0	GP								pCi/L
Thorium-228	1.4E-01	1	UI			0	GP								pCi/L
Thorium-230	-1.0E-02	1	UI			0	GP								pCi/L
Thorium-232	8.4E-02	1	UI			0	GP								pCi/L
Thorium-234	5.0E+01	1	UI			0	GP								pCi/L
Tritium	3.0E+00	1				0	GP								pCi/mL
Uranium-233/234	6.8E+01	1		■		2	GP								pCi/L
Uranium-235	2.9E+00	1				0	GP								pCi/L
Uranium-238	1.1E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.9E-03					0									pCi/L
Nickel-63	3.8E-01					0									pCi/L
Plutonium-241	-2.2E-02					0									pCi/L
Plutonium-242	-1.1E-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 92C

<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>
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 02/14/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	209.4	210.4	ft msl
pH	5.9		pH
Sp. conductance	354		µS/cm
Water temperature	20		°C
Alkalinity as CaCO ₃	12		mg/L
Turbidity	0.7		NTU
Volume purged	2.1		well volumes
Sampling code		W	
Synchronous water level	210.4 (03/27/95)	210.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	170	1				0	GE								µg/L
Cadmium, total recoverable	5.1	1				2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.4	1				1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	32	1				1	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	15	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	4.0	1				1	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	60	1			■	0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	1,200	1				2	GE								µg/L
Nitrate as nitrogen	47,000	40	J			2	GE								µg/L
pH	5.5	1	J1		●	0	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 92C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.2E+01	1		■		2	GP								pCi/L
Nonvolatile beta	3.8E+02	1		■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.3E+01	1	UI			0	GP								pCi/L
Americium-241	-5.0E-03	1	UI			0	GP								pCi/L
Cesium-137	-2.0E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.7E+00	1	UI			0	GP								pCi/L
Curium-242	-1.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.2E-01	1	UI			0	GP								pCi/L
Curium-245/246	-5.0E-03	1	UI			0	GP								pCi/L
Iodine-129	1.5E+01	1		■		2	GP								pCi/L
Plutonium-238	2.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.9E+01	1				1	GP								pCi/L
Radium-228	2.3E+00	1	J			0	GP								pCi/L
Strontium-89	3.1E+01	1		■		2	GP								pCi/L
Strontium-90	9.5E+01	1		■		2	GP								pCi/L
Technetium-99	3.8E+01	1				0	GP								pCi/L
Thorium-228	2.2E-01	1	UI			0	GP								pCi/L
Thorium-230	4.5E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.7E-02	1	UI			0	GP								pCi/L
Thorium-234	1.6E+02	1	UI			0	GP								pCi/L
Tritium	1.8E+03	1		■		2	GP								pCi/mL
Uranium-233/234	5.6E-01	1	UI			0	GP								pCi/L
Uranium-235	9.1E-03	1	UI			0	GP								pCi/L
Uranium-238	4.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.7E-04					0									pCi/L
Nickel-63	1.7E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/14/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	211.6	213.2	ft msl
pH	3.3		pH
Sp. conductance	1,020		µS/cm
Water temperature	20.3		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	1.1		NTU
Volume purged	2.9		well volumes
Sampling code		W	
Synchronous water level	213.1 (03/27/95)	212.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	390	1				0	GE								µg/L
Cadmium, total recoverable	15	1		■		2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.90	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	4.1	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	14	1				0	GE								µg/L
Copper, total recoverable	22	1				0	GE								µg/L
Cyanide	5.4	1	JV	■		0	GE								µg/L
Nickel, total recoverable	26	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	96	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	58,000	1		■		2	GE								µg/L
Nitrate as nitrogen	130,000	160		■		2	GE								µg/L
pH	3.5	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 92D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.9E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.7E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.3E+01	1				0	GP								pCi/L
Americium-241	1.0E+01	1		■		2	GP								pCi/L
Cesium-137	1.7E+00	1	UI			0	GP								pCi/L
Cobalt-60	3.2E+00	1	UI			0	GP								pCi/L
Curium-242	-2.9E-03	1	UI			0	GP								pCi/L
Curium-243/244	9.0E+00	1		■		2	GP								pCi/L
Curium-245/246	4.5E-01	1	UI			0	GP								pCi/L
Iodine-129	1.2E+02	1		■		2	GP								pCi/L
Plutonium-238	8.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.3E-02	1	UI			0	GP								pCi/L
Radium-226	5.0E+01	1	J	■		2	GP								pCi/L
Radium-228	4.4E+01	1	J	■		2	GP								pCi/L
Strontium-89	1.0E+02	1		■		2	GP								pCi/L
Strontium-90	3.4E+02	1		■		2	GP								pCi/L
Technetium-99	5.6E+01	1				0	GP								pCi/L
Thorium-228	7.0E-01	1	UI			0	GP								pCi/L
Thorium-230	7.7E-01	1	UI			0	GP								pCi/L
Thorium-232	6.5E-02	1	UI			0	GP								pCi/L
Thorium-234	1.8E+02	1				0	GP								pCi/L
Tritium	8.7E+03	1		■		2	GP								pCi/mL
Uranium-233/234	3.0E+02	1		■		2	GP								pCi/L
Uranium-235	1.2E+01	1				1	GP								pCi/L
Uranium-238	3.6E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.7E-02					0									pCi/L
Nickel-63	3.2E+00					0									pCi/L
Plutonium-241	-5.0E-02					0									pCi/L
Plutonium-242	-2.5E-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 FSB 93C

<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>
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 02/13/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	208.7	209.7	ft msl
pH	5.0	4.6	pH
Sp. conductance	325	343	µS/cm
Water temperature	19.6	19.5	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	0.8	0.8	NTU
Volume purged	2.6	3.2	well volumes
Sampling code			
Synchronous water level	209.7 (03/27/95)	209.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	69	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	0.58	1	J			0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	3.4	1	J			0	GE	4.0	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	2.7	1	J			0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	J			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	6.3	1	J			0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	7.1	1				0	GE								µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	1.8	1				0	GE								µg/L
Trichlorofluoromethane	2.5	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	99	1			■	0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	49	1				1	GE								µg/L
Nitrate as nitrogen	37,000	40		■		2	GE	46,000	40		■		2	GE	µg/L
pH	6.8	1	J1	■	●	0	GE	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 93C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+01	1				1	GP	6.0E+00	1				0	GP	pCi/L
Nonvolatile beta	4.1E+01	1				1	GP	4.7E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	7.4E+00	1	UI			0	GP								pCi/L
Americium-241	3.0E-02	1	UI			0	GP								pCi/L
Cesium-137	7.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	-1.6E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-2.4E-02	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	-4.0E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.6E-02	1	UI			0	GP								pCi/L
Radium-226	9.4E-01	1	UI			0	GP								pCi/L
Radium-228	9.3E-01	1	UJI			0	GP								pCi/L
Strontium-89	-5.1E-01	1	UI			0	GP								pCi/L
Strontium-90	4.0E+00	1				0	GP								pCi/L
Technetium-99	3.8E+01	1				0	GP								pCi/L
Thorium-228	3.9E-02	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	UI			0	GP								pCi/L
Thorium-232	-6.0E-03	1	UI			0	GP								pCi/L
Thorium-234	9.7E+01	1	UI			0	GP								pCi/L
Tritium	1.5E+03	1		■		2	GP	1.6E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.3E-02	1	UI			0	GP								pCi/L
Uranium-235	1.9E-02	1	UI			0	GP								pCi/L
Uranium-238	7.1E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.1E-05					0									pCi/L
Nickel-63	-1.6E-01					0									pCi/L
Plutonium-241	-6.4E-02					0									pCi/L
Plutonium-242	-3.2E-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 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 02/14/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	210.4	212.0	ft msl
pH	3.8		pH
Sp. conductance	840		µS/cm
Water temperature	17.6		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	1.7		NTU
Volume purged	0.85		well volumes
Sampling code	I	W	
Synchronous water level	211.9 (03/27/95)	211.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	360	1				0	GE								µg/L
Cadmium, total recoverable	13	1		■		2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	6.7	1				0	GE								µg/L
Mercury, total recoverable	0.32	1	J			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.1	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	10	1				0	GE								µg/L
Copper, total recoverable	31	1				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	20	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	62	1		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	34,000	1		■		2	GE								µg/L
Nitrate as nitrogen	120,000	80		■		2	GE								µg/L
pH	3.9	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 93D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	2.0E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.8E+01	1				0	GP								pCi/L
Americium-241	5.4E+00	1				1	GP								pCi/L
Cesium-137	-2.8E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.1E+00	1	UI			0	GP								pCi/L
Curium-242	-1.9E-01	1	UI			0	GP								pCi/L
Curium-243/244	3.9E+00	1				0	GP								pCi/L
Curium-245/246	1.7E-01	1	UI			0	GP								pCi/L
Iodine-129	1.0E+02	1		■		2	GP								pCi/L
Plutonium-238	-6.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	2.0E+01	1	J			1	GP								pCi/L
Radium-228	3.7E+01	1	J	■		2	GP								pCi/L
Strontium-89	2.6E+02	1		■		2	GP								pCi/L
Strontium-90	7.1E+02	1		■		2	GP								pCi/L
Technetium-99	7.3E+01	1				0	GP								pCi/L
Thorium-228	4.2E-01	1	UI			0	GP								pCi/L
Thorium-230	4.0E-01	1	UI			0	GP								pCi/L
Thorium-232	-8.2E-02	1	UI			0	GP								pCi/L
Thorium-234	1.5E+02	1				0	GP								pCi/L
Tritium	1.0E+04	1		■		2	GP								pCi/mL
Uranium-233/234	5.9E+01	1		■		2	GP								pCi/L
Uranium-235	2.6E+00	1				0	GP								pCi/L
Uranium-238	8.2E+01	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.2E-02					0									pCi/L
Nickel-63	1.1E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 02/13/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	207.6	208.8	ft msl
pH	4.0		pH
Sp. conductance	1,963		µS/cm
Water temperature	17.6		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	8.8		NTU
Volume purged	0.63		well volumes
Sampling code	X	W	
Synchronous water level	208.7 (03/27/95)	208.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	610	10				0	GE								µg/L
Cadmium, total recoverable	23	10	J	■		2	GE								µg/L
Chromium, total recoverable	<67	10				0	GE								µg/L
Lead, total recoverable	4.4	1	J			0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<33	10				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	670	10		■		2	GE								µg/L
Copper, total recoverable	47	10	J			0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	180	10		■		2	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<130	10				0	GE								µg/L
Zinc, total recoverable	320	10		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	46,000	10		■		2	GE								µg/L
Nitrate as nitrogen	250,000	160		■		2	GE								µg/L
pH	4.5	1	J1	■	●	0	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 94C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+02	1		■		2	GP								pCi/L
Nonvolatile beta	2.4E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.5E+01	1				0	GP								pCi/L
Americium-241	5.9E-01	1	UI			0	GP								pCi/L
Cesium-137	6.5E+00	1				0	GP								pCi/L
Cobalt-60	7.5E+00	1				0	GP								pCi/L
Curium-242	-1.4E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.2E-01	1	UI			0	GP								pCi/L
Curium-245/246	3.6E-01	1	UI			0	GP								pCi/L
Iodine-129	1.5E+02	1		■		2	GP								pCi/L
Plutonium-238	2.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.0E-02	1	UI			0	GP								pCi/L
Radium-226	3.5E+01	1	J	■		2	GP								pCi/L
Radium-228	2.2E+01	1	J	■		2	GP								pCi/L
Strontium-89	4.7E+00	1				0	GP								pCi/L
Strontium-90	7.2E+02	1		■		2	GP								pCi/L
Technetium-99	1.5E+02	1				0	GP								pCi/L
Thorium-228	6.3E-01	1	UI			0	GP								pCi/L
Thorium-230	2.6E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	9.7E+01	1	UI			0	GP								pCi/L
Tritium	1.0E+04	1		■		2	GP								pCi/mL
Uranium-233/234	1.7E+01	1		■		2	GP								pCi/L
Uranium-235	4.0E-01	1	UI			0	GP								pCi/L
Uranium-238	1.9E+01	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.6E-04					0									pCi/L
Nickel-63	7.5E+00					0									pCi/L
Plutonium-241	-4.1E-02					0									pCi/L
Plutonium-242	-2.0E-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 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 02/13/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	209.4	211.0	ft msl
pH	3.1		pH
Sp. conductance	1,360		µS/cm
Water temperature	19.9		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.5		NTU
Volume purged	6.5		well volumes
Sampling code		W	
Synchronous water level	210.9 (03/27/95)	210.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	770	1				0	GE								µg/L
Cadmium, total recoverable	4.4	1				1	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.35	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	35	1				1	GE								µg/L
Copper, total recoverable	67	1		■		0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	36	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	3.7	1				1	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	140	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	64,000	3		■		2	GE								µg/L
Nitrate as nitrogen	130,000	160		■		2	GE								µg/L
pH	3.3	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 94DR (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+03	1		■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	6.4E+01	1				0	GP								pCi/L
Americium-241	9.0E+01	1		■		2	GP								pCi/L
Cesium-137	2.8E+02	1		■		2	GP								pCi/L
Cobalt-60	4.0E+00	1				0	GP								pCi/L
Curium-242	-1.4E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.6E+02	1		■		2	GP								pCi/L
Curium-245/246	3.4E+00	1				1	GP								pCi/L
Iodine-129	1.4E+02	1		■		2	GP								pCi/L
Plutonium-238	1.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-2.3E-02	1	UI			0	GP								pCi/L
Radium-226	1.0E+01	1	J			1	GP								pCi/L
Radium-228	5.7E+01	1	J	■		2	GP								pCi/L
Strontium-89	2.1E+01	1		■		2	GP								pCi/L
Strontium-90	2.3E+02	1		■		2	GP								pCi/L
Technetium-99	9.3E+01	1				0	GP								pCi/L
Thorium-228	3.4E-01	1	UI			0	GP								pCi/L
Thorium-230	2.0E-01	1	UI			0	GP								pCi/L
Thorium-232	-8.0E-03	1	UI			0	GP								pCi/L
Thorium-234	7.0E+02	1		■		2	GP								pCi/L
Tritium	8.9E+03	1		■		2	GP								pCi/mL
Uranium-233/234	6.7E+02	1		■		2	GP								pCi/L
Uranium-235	3.9E+01	1		■		2	GP								pCi/L
Uranium-238	1.3E+03	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.8E-01					0									pCi/L
Nickel-63	4.0E+00					0									pCi/L
Plutonium-241	-9.1E-02					0									pCi/L
Plutonium-242	-4.5E-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 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 02/12/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	207.0	208.1	ft msl
pH	3.7		pH
Sp. conductance	1,779		µS/cm
Water temperature	20		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.3		NTU
Volume purged	4.9		well volumes
Sampling code		W	
Synchronous water level	207.9 (03/27/95)	208.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.8	1	J			0	WA								µg/L
Barium, total recoverable	930	5				0	GE								µg/L
Cadmium, total recoverable	16	1		■		2	WA								µg/L
Chromium, total recoverable	2.6	1	J			0	WA								µg/L
Lead, total recoverable	4.0	1	J			0	WA								µg/L
Mercury, total recoverable	1.2	1				1	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<1.4	1				0	WA								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	460	1		■		2	WA								µg/L
Copper, total recoverable	43	1				0	WA								µg/L
Cyanide	<8.3	1	Y			0	GE								µg/L
Nickel, total recoverable	96	1		■		1	WA								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	WA								µg/L
Zinc, total recoverable	310	5		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	47,000	5		■		2	GE								µg/L
Nitrate as nitrogen	230,000	160		■		2	GE								µg/L
pH	4.0	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<11	1				0	WA								µg/L
Dichloromethane	<1.7	1	V			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 95CR (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+03	1		■		2	GP								pCi/L
Nonvolatile beta	2.4E+03	1		■		2	TM								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.8E+01	1				0	TM								pCi/L
Americium-241	1.3E+01	1		■		2	GP								pCi/L
Cesium-137	1.3E+00	1	UI			0	GP								pCi/L
Cobalt-60	6.6E+00	1				0	TM								pCi/L
Curium-242	2.8E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.6E+01	1		■		2	GP								pCi/L
Curium-245/246	1.2E+00	1				0	GP								pCi/L
Iodine-129	2.3E+02	1		■		2	GP								pCi/L
Plutonium-238	-1.0E-02	1	UI			0	TM								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	8.9E+01	1		■		2	TM								pCi/L
Radium-228	2.5E+02	1		■		2	TM								pCi/L
Strontium-89	1.9E+02	1	J2	■		2	TM								pCi/L
Strontium-90	1.2E+03	1		■		2	TM								pCi/L
Technetium-99	2.9E+02	1	V			0	TM								pCi/L
Thorium-228	2.9E-01	1				0	TM								pCi/L
Thorium-230	3.7E-01	1				0	TM								pCi/L
Thorium-232	0.0E+00	1	UI			0	TM								pCi/L
Thorium-234	2.7E+02	1				1	GP								pCi/L
Tritium	1.4E+04	1	V	■		2	TM								pCi/mL
Uranium-233/234	3.5E+02	1		■		2	GP								pCi/L
Uranium-235	1.8E+01	1	R	■		2	TM								pCi/L
Uranium-238	4.4E+02	1	R	■		2	TM								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.9E-02					0									pCi/L
Nickel-63	6.6E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/12/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	209.1	210.9	ft msl
pH	3.2		pH
Sp. conductance	1,967		µS/cm
Water temperature	20.1		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.3		NTU
Volume purged	14		well volumes
Sampling code		W	
Synchronous water level	211.5 (03/27/95)	210.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	560	20				0	GE								µg/L
Cadmium, total recoverable	<67	20				0	GE								µg/L
Chromium, total recoverable	<130	20				0	GE								µg/L
Lead, total recoverable	18	1				0	GE								µg/L
Mercury, total recoverable	0.84	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<67	20				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<130	20				0	GE								µg/L
Copper, total recoverable	<130	20				0	GE								µg/L
Cyanide	<8.3	1	R4			0	GE								µg/L
Nickel, total recoverable	<130	20				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<270	20				0	GE								µg/L
Zinc, total recoverable	140	20				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	47,000	20				2	GE								µg/L
Nitrate as nitrogen	230,000	160				2	GE								µg/L
pH	3.3	1	J1			1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 95DR (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E+03	1		■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	8.4E+01	1		■		2	GP								pCi/L
Cesium-137	4.4E+02	1		■		2	GP								pCi/L
Cobalt-60	2.9E+00	1	UI			0	GP								pCi/L
Curium-242	1.1E+00	1	UI			0	GP								pCi/L
Curium-243/244	8.7E+01	1		■		2	GP								pCi/L
Curium-245/246	7.9E+00	1		■		2	GP								pCi/L
Iodine-129	2.3E+02	1		■		2	GP								pCi/L
Plutonium-238	3.7E-01	1	UI			0	GP								pCi/L
Plutonium-239/240															
Radium-226	8.2E+00	1	J			0	GP								pCi/L
Radium-228	4.4E+01	1		■		2	GP								pCi/L
Strontium-89	-2.9E+01	1	UI			0	GP								pCi/L
Strontium-90	1.5E+02	1		■		2	GP								pCi/L
Technetium-99	5.2E+01	1				0	GP								pCi/L
Thorium-228	7.0E-01	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	UI			0	GP								pCi/L
Thorium-232	6.4E-02	1	UI			0	GP								pCi/L
Thorium-234	9.5E+02	1		■		2	GP								pCi/L
Tritium	1.2E+04	1		■		2	GP								pCi/mL
Uranium-233/234	4.2E+02	1		■		2	GP								pCi/L
Uranium-235	3.0E+01	1		■		2	GP								pCi/L
Uranium-238	1.2E+03	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.6E-01					0									pCi/L
Nickel-63	2.9E+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 FSB 96AR

<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>
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 02/13/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	153.3	153.6	ft msl
pH	7.8	7.4	pH
Sp. conductance	150	171	µS/cm
Water temperature	19.5	20	°C
Alkalinity as CaCO ₃	102	54	mg/L
Turbidity	0.5	0.3	NTU
Volume purged	2.7	4.6	well volumes
Sampling code			
Synchronous water level	153.7 (03/27/95)	153.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	36	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	0.76	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	510	1				0	GE	340	1	J1			0	GE	µg/L
pH	7.3	1	J1		●	0	GE	7.4	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 96AR (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1				0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.0E+00	1				0	GP	1.8E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.9E+00	1	UI			0	GP								pCi/L
Americium-241	-2.2E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.3E-01	1	UI			0	GP								pCi/L
Curium-242	-1.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	7.5E+00	1				2	GP								pCi/L
Plutonium-238	2.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.4E-01	1	UI			0	GP								pCi/L
Radium-228	2.2E-02	1	UI			0	GP								pCi/L
Strontium-89	-1.3E+00	1	UI			0	GP								pCi/L
Strontium-90	-5.5E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.2E+01	1	UI			0	GP								pCi/L
Thorium-228	1.7E-01	1	UI			0	GP								pCi/L
Thorium-230	1.0E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.6E+02	1				0	GP								pCi/L
Tritium	1.5E+01	1				1	GP	9.5E-03	1	UI			0	GP	pCi/mL
Uranium-233/234	6.6E-02	1	UI			0	GP								pCi/L
Uranium-235	3.5E-02	1	UI			0	GP								pCi/L
Uranium-238	3.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.7E-05					0									pCi/L
Nickel-63	4.3E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/21/95 04/11/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	152.7	152.6	ft msl
pH	7.2	6.6	pH
Sp. conductance	234	206	µS/cm
Water temperature	19.8	20.6	°C
Alkalinity as CaCO ₃	64	77	mg/L
Turbidity	0.9	1	NTU
Volume purged	3.3	3.1	well volumes
Sampling code			
Synchronous water level	152.6 (03/27/95)	152.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	37	1	V			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	<5.0	1				0	GE	2.7	1	J			0	WA	µg/L
Mercury, total recoverable	<0.20	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	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	<20	1				0	GE								µg/L
Nickel, total recoverable	4.3	1	J			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	<5.0	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	13	1	J			0	GE								µg/L
Nitrate as nitrogen	7,900	10				1	GE	8,800	8				1	GE	µg/L
pH	7.2	1	J1			0	GE	7.4	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 97A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E+00	1	J			0	GP	1.6E+01	1		■		2	GP	pCi/L
Nonvolatile beta	5.0E+00	1				0	GP	5.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	6.3E+00	1	UI			0	GP								pCi/L
Americium-241	2.3E-02	1	UI			0	GP								pCi/L
Cesium-137	-6.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.3E+00	1	UI			0	GP								pCi/L
Curium-242	4.3E-03	1	UI			0	GP								pCi/L
Curium-243/244	-6.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	1.6E-02	1	UI			0	GP								pCi/L
Iodine-129	1.9E+00	1	UI			0	GP								pCi/L
Plutonium-238	8.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	8.7E-02	1	UI			0	GP								pCi/L
Radium-226	5.3E-01	1	UI			0	GP								pCi/L
Radium-228	1.8E+00	1	J			0	GP								pCi/L
Strontium-89	-1.5E-01	1	UI			0	GP								pCi/L
Strontium-90	3.0E-02	1	UI			0	GP								pCi/L
Technetium-99	6.1E+00	1	UI			0	GP								pCi/L
Thorium-228	-1.2E-01	1	UI			0	GP								pCi/L
Thorium-230	-1.9E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.9E-02	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	2.2E+02	1		■		2	GP	2.7E+02	1	J1	■		2	TM	pCi/mL
Uranium-233/234	1.1E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.0E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.8E-04					0									pCi/L
Nickel-63	1.3E+00					0									pCi/L
Plutonium-241	3.5E-01					0									pCi/L
Plutonium-242	1.7E-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 97C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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	02/21/95	05/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	208.5	209.0	ft msl
pH	3.7		pH
Sp. conductance	1,702		µS/cm
Water temperature	17		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	1.6		NTU
Volume purged	0.82		well volumes
Sampling code	X	W	
Synchronous water level	208.7 (03/27/95)	208.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	550	5	V			0	GE								µg/L
Cadmium, total recoverable	6.1	5	J			2	GE								µg/L
Chromium, total recoverable	<20	5				0	GE								µg/L
Lead, total recoverable	10	1				0	GE								µg/L
Mercury, total recoverable	0.10	1	JVV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<3.3	5				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	3.8	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	320	5				2	GE								µg/L
Copper, total recoverable	70	5				0	GE								µg/L
Cyanide	<20	1	Y			0	GE								µg/L
Nickel, total recoverable	75	5				1	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	1.7	1	J			1	GE								µg/L
Trichloroethylene	9.3	1				2	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<50	5				0	GE								µg/L
Zinc, total recoverable	190	5				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	77,000	5	V			2	GE								µg/L
Nitrate as nitrogen	240,000	160				2	GE								µg/L
pH	3.7	1	J1		●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 97C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E+03	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.1E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.8E+01	1				0	GP								pCi/L
Americium-241	5.3E+01	1		■		2	GP								pCi/L
Cesium-137	7.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.3E+00	1				0	GP								pCi/L
Curium-242	7.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.7E+01	1		■		2	GP								pCi/L
Curium-245/246	1.2E+00	1				0	GP								pCi/L
Iodine-129	8.6E+01	1		■		2	GP								pCi/L
Plutonium-238	6.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	5.6E-02	1	UI			0	GP								pCi/L
Radium-226	6.3E+01	1		■		2	GP								pCi/L
Radium-228	4.4E+01	1	J	■		2	GP								pCi/L
Strontium-89	-1.1E+02	1	UJI			0	GP								pCi/L
Strontium-90	3.4E+02	1	J	■		2	GP								pCi/L
Technetium-99	1.1E+02	1				0	GP								pCi/L
Thorium-228	1.4E+00	1				0	GP								pCi/L
Thorium-230	1.1E+00	1				0	GP								pCi/L
Thorium-232	5.7E-02	1	UI			0	GP								pCi/L
Thorium-234	2.5E+02	1				1	GP								pCi/L
Tritium	1.3E+04	1		■		2	GP								pCi/mL
Uranium-233/234	4.2E+02	1		■		2	GP								pCi/L
Uranium-235	2.5E+01	1		■		2	GP								pCi/L
Uranium-238	5.7E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-01					0									pCi/L
Nickel-63	4.3E+00					0									pCi/L
Plutonium-241	2.2E-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 97D

<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>
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 02/21/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	210.6	211.7	ft msl
pH	3.8		pH
Sp. conductance	1,588		µS/cm
Water temperature	18.9		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	5.9		NTU
Volume purged	1.1		well volumes
Sampling code	X	W	
Synchronous water level	211.2 (03/27/95)	211.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	1,200	1	V	■		1	GE								µg/L
Cadmium, total recoverable	9.1	1				2	GE								µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	34	1				1	GE								µg/L
Mercury, total recoverable	0.12	1	JVV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	2.5	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.0	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	81	1		■		2	GE								µg/L
Copper, total recoverable	64	1		■		0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	47	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	1.1	1	J			1	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	180	1		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	53,000	10	V	■		2	GE								µg/L
Nitrate as nitrogen	220,000	160		■		2	GE								µg/L
pH	3.8	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 97D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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+03	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.4E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228	2.6E+01	1				0	GP								pCi/L
Americium-241	5.0E+01	1		■		2	GP								pCi/L
Cesium-137	1.7E+01	1				0	GP								pCi/L
Cobalt-60	2.7E+00	1	UI			0	GP								pCi/L
Curium-242	9.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	4.9E+01	1		■		2	GP								pCi/L
Curium-245/246	2.4E+00	1				0	GP								pCi/L
Iodine-129	7.3E+01	1		■		2	GP								pCi/L
Plutonium-238	6.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.7E+01	1				1	GP								pCi/L
Radium-228	4.3E+01	1	J	■		2	GP								pCi/L
Strontium-89	-2.4E+02	1	UI			0	GP								pCi/L
Strontium-90	5.9E+02	1	J	■		2	GP								pCi/L
Technetium-99	3.9E+01	1				0	GP								pCi/L
Thorium-228	1.7E+00	1				0	GP								pCi/L
Thorium-230	6.9E-01	1	UI			0	GP								pCi/L
Thorium-232	1.9E-02	1	UI			0	GP								pCi/L
Thorium-234	2.4E+02	1				1	GP								pCi/L
Tritium	1.0E+04	1		■		2	GP								pCi/mL
Uranium-233/234	4.5E+02	1		■		2	GP								pCi/L
Uranium-235	3.2E+01	1		■		2	GP								pCi/L
Uranium-238	1.2E+03	1		■		2	GP								pCi/L

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Americium-243	1.5E-01					0									pCi/L
Nickel-63	2.7E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/13/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	151.6	151.9	ft msl
pH	7.6	7.4	pH
Sp. conductance	127	150	µS/cm
Water temperature	18.6	20.2	°C
Alkalinity as CaCO ₃	91	44	mg/L
Turbidity	0.5	0.3	NTU
Volume purged	3.7	3.4	well volumes
Sampling code			
Synchronous water level	151.9 (03/27/95)	151.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	2.1	1	J			0	GE								µg/L
Barium, total recoverable	29	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	2.2	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE	<0.65	1				0	GE	µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE	<10	1				0	GE	µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,300	1				0	GE	1,200	1				0	GE	µg/L
pH	7.1	1	J1		●	0	GE	7.2	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1				0	GP	9.1E-01	1	J			0	GP	pCi/L
Nonvolatile beta	1.0E+00	1	UI			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.5E+00	1	UI			0	GP								pCi/L
Americium-241	-4.4E-03	1	UI			0	GP								pCi/L
Cesium-137	-6.5E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.3E+00	1	UI			0	GP								pCi/L
Curium-242	-9.4E-03	1	UI			0	GP								pCi/L
Curium-243/244	-2.5E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-1.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	3.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	3.4E-01	1	UI			0	GP								pCi/L
Radium-228	-5.6E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.8E+00	1	UI			0	GP								pCi/L
Strontium-90	-8.4E-01	1	UI			0	GP								pCi/L
Technetium-99	5.3E+00	1	UI			0	GP								pCi/L
Thorium-228	-2.2E-02	1	UI			0	GP								pCi/L
Thorium-230	-1.3E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	4.4E+00	1	UI			0	GP								pCi/L
Tritium	2.5E+01	1			■	2	GP	2.6E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	2.0E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	-1.4E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.5E-05					0									pCi/L
Nickel-63	1.3E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/13/95 05/05/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	208.6	209.8	ft msl
pH	3.6		pH
Sp. conductance	1,111		µS/cm
Water temperature	19.2		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.6		NTU
Volume purged	2.2		well volumes
Sampling code		W	
Synchronous water level	209.5 (03/27/95)	209.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	450	3	V			0	GE								µg/L
Cadmium, total recoverable	<10	3				0	GE								µg/L
Chromium, total recoverable	<20	3				0	GE								µg/L
Lead, total recoverable	3.8	1	J			0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<10	3				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	350	3		■		2	GE								µg/L
Copper, total recoverable	72	3		■		0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	44	3				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<40	3				0	GE								µg/L
Zinc, total recoverable	120	3		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	39,000	3	V	■		2	GE								µg/L
Nitrate as nitrogen	140,000	160		■		2	GE								µg/L
pH	3.4	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 98C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+02	1		■		2	GP								pCi/L
Nonvolatile beta	3.2E+02	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.8E+00	1	UI			0	GP								pCi/L
Americium-241	3.4E+01	1		■		2	GP								pCi/L
Cesium-137	3.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.2E+00	1	UI			0	GP								pCi/L
Curium-242	4.0E-01	1	UI			0	GP								pCi/L
Curium-243/244	3.3E+01	1		■		2	GP								pCi/L
Curium-245/246	2.8E+00	1				0	GP								pCi/L
Iodine-129	8.5E+01	1		■		2	GP								pCi/L
Plutonium-238	2.5E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	5.2E+01	1	J	■		2	GP								pCi/L
Radium-228	1.2E+01	1	J			1	GP								pCi/L
Strontium-89	8.1E+00	1				0	GP								pCi/L
Strontium-90	1.6E+02	1		■		2	GP								pCi/L
Technetium-99	8.4E+01	1				0	GP								pCi/L
Thorium-228	6.4E-01	1	UI			0	GP								pCi/L
Thorium-230	2.1E-01	1	UI			0	GP								pCi/L
Thorium-232	1.4E-01	1	UI			0	GP								pCi/L
Thorium-234	2.6E+02	1				1	GP								pCi/L
Tritium	7.9E+03	1		■		2	GP								pCi/mL
Uranium-233/234	4.5E+02	1		■		2	GP								pCi/L
Uranium-235	2.3E+01	1		■		2	GP								pCi/L
Uranium-238	6.6E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.0E-01					0									pCi/L
Nickel-63	4.2E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/14/95 05/05/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	210.9	212.8	ft msl
pH	3.8		pH
Sp. conductance	486		µS/cm
Water temperature	16.4		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	19.1		NTU
Volume purged	1.3		well volumes
Sampling code	X	W	
Synchronous water level	212.2 (03/27/95)	212.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	490	1				0	GE								µg/L
Cadmium, total recoverable	17	1		■		2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	8.7	1				0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.1	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	41	1				2	GE								µg/L
Copper, total recoverable	42	1				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	20	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	96	1		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	16,000	1		■		2	GE								µg/L
Nitrate as nitrogen	64,000	40		■		2	GE								µg/L
pH	3.9	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 98D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.9E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	2.3E+01	1		■		2	GP								pCi/L
Cesium-137	1.2E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.3E+00	1	UI			0	GP								pCi/L
Curium-242	1.3E+00	1	UI			0	GP								pCi/L
Curium-243/244	2.1E+01	1		■		2	GP								pCi/L
Curium-245/246	1.1E+00	1				0	GP								pCi/L
Iodine-129	2.5E+01	1		■		2	GP								pCi/L
Plutonium-238	-3.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.1E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+01	1	J			1	GP								pCi/L
Radium-228	2.5E+01	1	J	■		2	GP								pCi/L
Strontium-89	1.1E+02	1		■		2	GP								pCi/L
Strontium-90	2.8E+02	1		■		2	GP								pCi/L
Technetium-99	4.3E+01	1				0	GP								pCi/L
Thorium-228	5.7E-01	1	UI			0	GP								pCi/L
Thorium-230	5.8E-02	1	UI			0	GP								pCi/L
Thorium-232	1.5E-01	1	UI			0	GP								pCi/L
Thorium-234	4.6E+02	1		■		2	GP								pCi/L
Tritium	3.8E+03	1		■		2	GP								pCi/mL
Uranium-233/234	2.4E+02	1		■		2	GP								pCi/L
Uranium-235	1.5E+01	1		■		2	GP								pCi/L
Uranium-238	5.3E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.3E-02					0									pCi/L
Nickel-63	1.3E+00					0									pCi/L
Plutonium-241	-4.4E-02					0									pCi/L
Plutonium-242	-2.2E-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 99A

<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>
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 02/12/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	150.7	151.3	ft msl
pH	6.9	7.0	pH
Sp. conductance	173	164	µS/cm
Water temperature	20	20	°C
Alkalinity as CaCO ₃	40	49	mg/L
Turbidity	0.2	0.3	NTU
Volume purged	3.6	4.5	well volumes
Sampling code			
Synchronous water level	151.1 (03/27/95)	151.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE							GE	µg/L
Barium, total recoverable	32	1				0	GE	31	5	V			0	GE	µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE							GE	µg/L
Lead, total recoverable	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE							GE	µg/L
Selenium, total recoverable	<3.3	1				0	GE							GE	µg/L
Silver, total recoverable	<3.3	1				0	GE	<0.65	1				0	GE	µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE							GE	µg/L
Benzene	<1.7	1				0	GE							GE	µg/L
Cobalt, total recoverable	<6.7	1				0	GE							GE	µg/L
Copper, total recoverable	<6.7	1				0	GE							GE	µg/L
Cyanide	<8.3	1				0	GE							GE	µg/L
Nickel, total recoverable	<6.7	1				0	GE	<10	1	V			0	GE	µg/L
Phenols	<8.3	1	J			0	GE							GE	µg/L
Tetrachloroethylene	<1.7	1				0	GE							GE	µg/L
Thallium, total recoverable	<3.3	1				0	GE							GE	µg/L
Trichloroethylene	<1.7	1				0	GE							GE	µg/L
Trichlorofluoromethane	<1.7	1				0	GE							GE	µg/L
Vanadium, total recoverable	<13	1				0	GE							GE	µg/L
Zinc, total recoverable	<3.3	1				0	GE							GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	29	1	J			1	GE							GE	µg/L
Nitrate as nitrogen	3,900	4				0	GE	4,400	4				0	GE	µg/L
pH	7.1	1	J1		●	0	GE	7.1	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE							GE	µg/L
Dichloromethane	<1.7	1				0	GE							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 99A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.3E-01	1	UI			0	GP	2.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.6E+00	1				0	GP	1.8E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.0E+00	1	UI			0	GP								pCi/L
Americium-241	-7.2E-02	1	UI			0	GP								pCi/L
Cesium-137	-9.9E-02	1	UI			0	GP								pCi/L
Cobalt-60	-2.0E-01	1	UI			0	GP								pCi/L
Curium-242	4.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	2.6E+00	1		■		2	GP								pCi/L
Plutonium-238	4.5E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-7.2E-03	1	UI			0	GP								pCi/L
Radium-226	4.7E-01	1	UI			0	GP								pCi/L
Radium-228	-3.4E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.6E-01	1	UI			0	GP								pCi/L
Strontium-90	-8.9E-01	1	UI			0	GP								pCi/L
Technetium-99	-8.0E+00	1	UI			0	GP								pCi/L
Thorium-228	-7.8E-02	1	UI			0	GP								pCi/L
Thorium-230	5.6E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.9E-02	1	UI			0	GP								pCi/L
Thorium-234	1.5E+02	1				0	GP								pCi/L
Tritium	1.6E+02	1		■		2	GP	7.8E+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	2.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.4E-05					0									pCi/L
Nickel-63	-2.0E-01					0									pCi/L
Plutonium-241	-2.9E-02					0									pCi/L
Plutonium-242	-1.4E-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 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 02/12/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	209.2	210.1	ft msl
pH	5.5	5.3	pH
Sp. conductance	293	281	µS/cm
Water temperature	19.2	19.5	°C
Alkalinity as CaCO ₃	2	2	mg/L
Turbidity	0.6	0.3	NTU
Volume purged	5.7	4.9	well volumes
Sampling code			
Synchronous water level	210.2 (03/27/95)	210.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	63	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	1.9	1	J			0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	2.5	1	JVV			0	GE	µg/L
Mercury, total recoverable	0.27	1	J			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	5.1	1	J			0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	18	1		■		2	GE								µg/L
Trichlorofluoromethane	2.0	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	18	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	120	1		■		2	GE								µg/L
Nitrate as nitrogen	28,000	20		■		2	GE	30,000	20		■		2	GE	µg/L
pH	5.4	1	J1	■	●	0	GE	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 99C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+01	1		■		2	GP	3.7E+01	1		■		2	GP	pCi/L
Nonvolatile beta	8.7E+01	1		■		2	GP	9.0E+01	1	J	■		2	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.5E+00	1	UI			0	GP								pCi/L
Americium-241	2.8E-01	1	UI			0	GP								pCi/L
Cesium-137	8.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.4E-01	1	UI			0	GP								pCi/L
Curium-242	1.6E-01	1	UI			0	GP								pCi/L
Curium-243/244	-3.7E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.2E+01	1		■		2	GP								pCi/L
Plutonium-238	1.9E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	9.0E-02	1	UI			0	GP								pCi/L
Radium-228	1.0E+00	1				0	GP								pCi/L
Strontium-89	7.1E+00	1				0	GP								pCi/L
Strontium-90	1.8E+01	1		■		2	GP								pCi/L
Technetium-99	9.7E+00	1	UI			0	GP								pCi/L
Thorium-228	5.8E-03	1	UI			0	GP								pCi/L
Thorium-230	1.1E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.7E-02	1	UI			0	GP								pCi/L
Thorium-234	5.9E+01	1	UI			0	GP								pCi/L
Tritium	1.5E+03	1		■		2	GP	1.3E+01	1				1	GP	pCi/mL
Uranium-233/234	6.1E+00	1				0	GP								pCi/L
Uranium-235	2.1E-01	1	UI			0	GP								pCi/L
Uranium-238	6.3E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.1E-05					0									pCi/L
Nickel-63	2.4E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 02/12/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	212.1	213.3	ft msl
pH	4.8	5.0	pH
Sp. conductance	35	33	μS/cm
Water temperature	20	20.7	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.6	1.1	NTU
Volume purged	5.2	4.6	well volumes
Sampling code			
Synchronous water level	213.2 (03/27/95)	208.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								μg/L
Barium, total recoverable	9.0	1				0	GE								μg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	μg/L
Chromium, total recoverable	<6.7	1				0	GE								μg/L
Lead, total recoverable	5.4	1				0	GE	6.5	1	V			0	GE	μg/L
Mercury, total recoverable	<0.33	1				0	GE								μg/L
Selenium, total recoverable	<3.3	1				0	GE								μg/L
Silver, total recoverable	<3.3	1				0	GE								μg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								μg/L
Benzene	<1.7	1				0	GE								μg/L
Cobalt, total recoverable	<6.7	1				0	GE								μg/L
Copper, total recoverable	5.1	1	J			0	GE								μg/L
Cyanide	<8.3	1				0	GE								μg/L
Nickel, total recoverable	<6.7	1				0	GE								μg/L
Phenols	<8.3	1	J			0	GE								μg/L
Tetrachloroethylene	<1.7	1				0	GE								μg/L
Thallium, total recoverable	<3.3	1				0	GE								μg/L
Trichloroethylene	<1.7	1				0	GE								μg/L
Trichlorofluoromethane	<1.7	1				0	GE								μg/L
Vanadium, total recoverable	<13	1				0	GE								μg/L
Zinc, total recoverable	7.0	1				0	GE								μg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	190	1				2	GE								μg/L
Nitrate as nitrogen	1,900	2				0	GE	1,700	1				0	GE	μg/L
pH	4.8	1	J1			0	GE	5.3	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								μg/L
Dichloromethane	<1.7	1	V			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 99D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+01	1				1	GP	1.6E+01	1	J	■		2	GP	pCi/L
Nonvolatile beta	2.1E+01	1				0	GP	1.6E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-1.2E+00	1	UI			0	GP								pCi/L
Americium-241	8.8E-02	1	UI			0	GP								pCi/L
Cesium-137	-2.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	6.6E-01	1	UI			0	GP								pCi/L
Curium-242	-4.7E-03	1	UI			0	GP								pCi/L
Curium-243/244	6.9E-01	1	UI			0	GP								pCi/L
Curium-245/246	-5.6E-03	1	UI			0	GP								pCi/L
Iodine-129	9.3E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.2E-02	1	UI			0	GP								pCi/L
Radium-226	8.0E-01	1	UI			0	GP								pCi/L
Radium-228	-4.8E-01	1	UI			0	GP								pCi/L
Strontium-89	-3.1E-01	1	UI			0	GP								pCi/L
Strontium-90	4.9E+00	1				1	GP								pCi/L
Technetium-99	-7.9E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	3.0E-01	1	UI			0	GP								pCi/L
Thorium-232	5.5E-02	1	UI			0	GP								pCi/L
Thorium-234	1.0E+02	1	UI			0	GP								pCi/L
Tritium	2.2E+01	1		■		2	GP	5.5E+01	1		■		2	GP	pCi/mL
Uranium-233/234	5.1E+00	1				0	GP								pCi/L
Uranium-235	2.4E-01	1	UI			0	GP								pCi/L
Uranium-238	1.3E+01	1				1	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.1E-03					0									pCi/L
Nickel-63	6.6E-01					0									pCi/L
Plutonium-241	-4.8E-02					0									pCi/L
Plutonium-242	-2.4E-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 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 02/12/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	151.6	151.9	ft msl
pH	7.0	7.2	pH
Sp. conductance	192	183	µS/cm
Water temperature	19.6	20	°C
Alkalinity as CaCO ₃	58	58	mg/L
Turbidity	0.3	0.2	NTU
Volume purged	3.3	4.3	well volumes
Sampling code			
Synchronous water level	151.9 (03/27/95)	151.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	45	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.5	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	2.0	1	J			0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	4,300	4				0	GE	4,300	4				0	GE	µg/L
pH	7.4	1	J1			0	GE	7.6	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB100A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1				0	GP	2.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.8E+00	1				0	GP	2.3E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.1E+00	1	UI			0	GP								pCi/L
Americium-241	2.7E-02	1	UI			0	GP								pCi/L
Cesium-137	1.3E+00	1	UI			0	GP								pCi/L
Cobalt-60	-2.1E-01	1	UI			0	GP								pCi/L
Curium-242	-1.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	8.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	-1.1E-02	1	UI			0	GP								pCi/L
Iodine-129	7.5E-02	1	UI			0	GP								pCi/L
Plutonium-238	-1.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	9.8E-01	1	UI			0	GP								pCi/L
Radium-228	1.3E+00	1				0	GP								pCi/L
Strontium-89	-1.0E+00	1	UI			0	GP								pCi/L
Strontium-90	-5.6E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.2E+01	1	UI			0	GP								pCi/L
Thorium-228	2.0E-01	1	UI			0	GP								pCi/L
Thorium-230	3.1E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	2.1E+02	1				1	GP								pCi/L
Tritium	1.2E+02	1		■		2	GP	1.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.0E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.2E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.6E-04					0									pCi/L
Nickel-63	-2.1E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/12/95 04/03/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	152.0	152.2	ft msl
pH	7.4	7.0	pH
Sp. conductance	171	145	µS/cm
Water temperature	19.3	20.1	°C
Alkalinity as CaCO ₃	61	67	mg/L
Turbidity	0.2	0.1	NTU
Volume purged	3.5	2.4	well volumes
Sampling code			
Synchronous water level	152.3 (03/27/95)	152.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	30	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.3	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	<3.3	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,000	1				0	GE	1,000	1				0	GE	µg/L
pH	7.5	1	J1			0	GE	7.5	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB101A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.2E-01	1	UI			0	GP	1.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.8E+00	1				0	GP	2.8E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.8E+00	1	UI			0	GP								pCi/L
Americium-241	-1.9E-02	1	UI			0	GP								pCi/L
Cesium-137	1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	8.2E-01	1	UI			0	GP								pCi/L
Curium-242	-2.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	-4.8E-03	1	UI			0	GP								pCi/L
Iodine-129	3.6E-01	1	UI			0	GP								pCi/L
Plutonium-238	3.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.1E-01	1	UI			0	GP								pCi/L
Radium-226	5.4E-01	1	UI			0	GP								pCi/L
Radium-228	3.9E+00	1				0	GP								pCi/L
Strontium-89	-2.0E+00	1	UI			0	GP								pCi/L
Strontium-90	-1.1E+00	1	UI			0	GP								pCi/L
Technetium-99	-7.9E+00	1	UI			0	GP								pCi/L
Thorium-228	8.5E-02	1	UI			0	GP								pCi/L
Thorium-230	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-232	-2.4E-02	1	UI			0	GP								pCi/L
Thorium-234	3.2E+02	1				1	GP								pCi/L
Tritium	4.0E-01	1	UI			0	GP	3.4E+00	1				0	GP	pCi/mL
Uranium-233/234	7.9E-02	1	UI			0	GP								pCi/L
Uranium-235	-6.0E-03	1	UI			0	GP								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.4E-05					0									pCi/L
Nickel-63	8.2E-01					0									pCi/L
Plutonium-241	4.3E-01					0									pCi/L
Plutonium-242	2.1E-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 FSB102C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/15/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	195.6	195.3	ft msl
pH	4.7		pH
Sp. conductance	278		µS/cm
Water temperature	17.4		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.5		NTU
Volume purged	2.2		well volumes
Sampling code		W	
Synchronous water level	195.7 (03/27/95)	195.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	120	1				0	GE								µg/L
Cadmium, total recoverable	6.5	1				2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.92	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	3.5	1				1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	48	1				2	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	18	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	1.2	1	J			0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	39	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,200	1		■		2	GE								µg/L
Nitrate as nitrogen	37,000	20	J	■		2	GE								µg/L
pH	4.5	1	J1	■	●	0	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB102C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+01	1				1	GP								pCi/L
Nonvolatile beta	5.7E+02	1		■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.9E+00	1	UI			0	GP								pCi/L
Americium-241	0.0E+00	1	UI			0	GP								pCi/L
Cesium-137	-4.2E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.4E+00	1	UI			0	GP								pCi/L
Curium-242	-4.8E-03	1	UI			0	GP								pCi/L
Curium-243/244	-4.2E-03	1	UI			0	GP								pCi/L
Curium-245/246	3.5E-02	1	UI			0	GP								pCi/L
Iodine-129	2.9E+01	1		■		2	GP								pCi/L
Plutonium-238	-7.9E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	1.1E-02	1	UI			0	GP								pCi/L
Radium-226	3.6E+00	1				0	GP								pCi/L
Radium-228	1.0E+00	1	J			0	GP								pCi/L
Strontium-89	2.3E+01	1		■		2	GP								pCi/L
Strontium-90	1.7E+02	1		■		2	GP								pCi/L
Technetium-99	1.8E+01	1	UI			0	GP								pCi/L
Thorium-228	1.3E-01	1	UI			0	GP								pCi/L
Thorium-230	-8.8E-02	1	UI			0	GP								pCi/L
Thorium-232	2.3E-01	1	UI			0	GP								pCi/L
Thorium-234	5.1E+01	1	UI			0	GP								pCi/L
Tritium	9.5E+02	1		■		2	GP								pCi/mL
Uranium-233/234	4.5E-01	1	UI			0	GP								pCi/L
Uranium-235	4.3E-02	1	UI			0	GP								pCi/L
Uranium-238	3.6E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.3E-05					0									pCi/L
Nickel-63	1.4E+00					0									pCi/L
Plutonium-241	4.4E-02					0									pCi/L
Plutonium-242	2.2E-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 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 02/13/95 04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	202.7	203.4	ft msl
pH	5.7	5.6	pH
Sp. conductance	209	213	µS/cm
Water temperature	19.4	20.2	°C
Alkalinity as CaCO ₃	4	5	mg/L
Turbidity	0.7	0.4	NTU
Volume purged	2.4	2.2	well volumes
Sampling code			
Synchronous water level	203.4 (03/27/95)	203.1 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	36	1				0	GE	35	1	V			0	GE	µg/L
Cadmium, total recoverable	<3.3	1				0	GE	0.50	1	J			0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	3.0	1	J			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	2.3	1	J			0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE	<0.65	1				0	GE	µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.5	1	J			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	11	1				0	GE								µg/L
Cyanide	<8.3	1	J1		●	0	GE								µg/L
Nickel, total recoverable	4.8	1	J			0	GE	7.9	1	JVV			0	GE	µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	71	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	21,000	20		■		2	GE	25,000	20		■		2	GE	µg/L
pH	5.9	1	J1	■	●	0	GE	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB103C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.0E-01	1	UI			0	GP	6.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	9.5E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.5E+00	1	UI			0	GP								pCi/L
Americium-241	2.8E-02	1	UI			0	GP								pCi/L
Cesium-137	2.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	-7.2E-02	1	UI			0	GP								pCi/L
Curium-242	3.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.5E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	5.1E+00	1		■		2	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	-4.3E-03	1	UI			0	GP								pCi/L
Radium-226	3.7E-01	1	UI			0	GP								pCi/L
Radium-228	-7.9E-01	1	UJI			0	GP								pCi/L
Strontium-89	-2.8E-01	1	UI			0	GP								pCi/L
Strontium-90	-1.8E-01	1	UI			0	GP								pCi/L
Technetium-99	3.0E+01	1				0	GP								pCi/L
Thorium-228	-3.2E-02	1	UI			0	GP								pCi/L
Thorium-230	-1.1E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.1E-02	1	UI			0	GP								pCi/L
Thorium-234	1.7E+02	1	UI			0	GP								pCi/L
Tritium	5.8E+02	1		■		2	GP	5.9E+02	1		■		2	GP	pCi/mL
Uranium-233/234	1.7E-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	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.4E-05					0									pCi/L
Nickel-63	-7.2E-02					0									pCi/L
Plutonium-241	-1.7E-02					0									pCi/L
Plutonium-242	-8.7E-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 FSB104C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/13/95

04/03/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	201.3	201.7	ft msl
pH	5.1	4.9	pH
Sp. conductance	370	378	µS/cm
Water temperature	18.5	19.3	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	0.5	1.1	NTU
Volume purged	3.5	3.5	well volumes
Sampling code			
Synchronous water level	201.7 (03/27/95)	201.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	87	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	0.76	1	J			0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.2	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	2.8	1	J			0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	3.0	1	J			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	6.6	1	J			0	GE								µg/L
Cyanide	<8.3	1	J1		●	0	GE								µg/L
Nickel, total recoverable	17	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	53	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	48	1				1	GE								µg/L
Nitrate as nitrogen	45,000	40		■		2	GE	43,000	40		■		2	GE	µg/L
pH	5.4	1	J1	■	●	0	GE	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB104C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.1E+00	1				0	GP	4.5E+00	1				0	GP	pCi/L
Nonvolatile beta	1.5E+01	1				0	GP	3.7E+01	1	J			1	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.3E+00	1	UI			0	GP								pCi/L
Americium-241	3.6E-02	1	UI			0	GP								pCi/L
Cesium-137	-7.2E-01	1	UI			0	GP								pCi/L
Cobalt-60	-6.4E-01	1	UI			0	GP								pCi/L
Curium-242	-1.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	-3.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	-4.9E-03	1	UI			0	GP								pCi/L
Iodine-129	6.0E+00	1		■		2	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	7.1E-02	1	UI			0	GP								pCi/L
Radium-226	7.6E-01	1	UI			0	GP								pCi/L
Radium-228	-5.4E-01	1	UJI			0	GP								pCi/L
Strontium-89	1.2E-01	1	UI			0	GP								pCi/L
Strontium-90	-2.4E-01	1	UI			0	GP								pCi/L
Technetium-99	4.5E+01	1				0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	UI			0	GP								pCi/L
Thorium-232	5.6E-02	1	UI			0	GP								pCi/L
Thorium-234	1.3E+02	1	UI			0	GP								pCi/L
Tritium	1.2E+03	1		■		2	GP	3.9E+00	1				0	GP	pCi/mL
Uranium-233/234	5.8E-02	1	UI			0	GP								pCi/L
Uranium-235	-2.9E-02	1	UI			0	GP								pCi/L
Uranium-238	-4.6E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.9E-05					0									pCi/L
Nickel-63	-6.4E-01					0									pCi/L
Plutonium-241	2.8E-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 FSB104D

<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>
N73865.2 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 02/13/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	205.0	205.2	ft msl
pH	3.5		pH
Sp. conductance	632		µS/cm
Water temperature	17		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.9		NTU
Volume purged	2.7		well volumes
Sampling code		W	
Synchronous water level	205.9 (03/27/95)	205.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	170	1	V			0	GE								µg/L
Cadmium, total recoverable	3.6	1				1	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	26	1				1	GE								µg/L
Copper, total recoverable	34	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	18	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	55	1		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	34,000	1	V	■		2	GE								µg/L
Nitrate as nitrogen	74,000	40		■		2	GE								µg/L
pH	3.8	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB104D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.7E+02	1		■		2	GP								pCi/L
Nonvolatile beta	6.6E+02	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.5E+01	1	UI			0	GP								pCi/L
Americium-241	1.2E+01	1		■		2	GP								pCi/L
Cesium-137	-1.9E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.6E+00	1	UI			0	GP								pCi/L
Curium-242	-1.6E-03	1	UI			0	GP								pCi/L
Curium-243/244	1.1E+01	1		■		2	GP								pCi/L
Curium-245/246	1.1E+00	1				0	GP								pCi/L
Iodine-129	3.9E+01	1		■		2	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	1.9E+01	1	J			1	GP								pCi/L
Radium-228	1.7E+01	1	J			1	GP								pCi/L
Strontium-89	2.6E+01	1		■		2	GP								pCi/L
Strontium-90	1.6E+02	1		■		2	GP								pCi/L
Technetium-99	4.2E+01	1				0	GP								pCi/L
Thorium-228	3.5E-01	1	UI			0	GP								pCi/L
Thorium-230	2.2E-01	1	UI			0	GP								pCi/L
Thorium-232	2.6E-02	1	UI			0	GP								pCi/L
Thorium-234	2.4E+02	1				1	GP								pCi/L
Tritium	4.8E+03	1		■		2	GP								pCi/mL
Uranium-233/234	2.5E+02	1		■		2	GP								pCi/L
Uranium-235	1.2E+01	1				1	GP								pCi/L
Uranium-238	3.1E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.3E-02					0									pCi/L
Nickel-63	1.6E+00					0									pCi/L
Plutonium-241	4.4E-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 FSB105C

<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>
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 02/15/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	207.3	208.4	ft msl
pH	3.7		pH
Sp. conductance	1,100		µS/cm
Water temperature	20		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.5		NTU
Volume purged	2.1		well volumes
Sampling code		W	
Synchronous water level	208.1 (03/27/95)	208.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	350	3	V			0	GE								µg/L
Cadmium, total recoverable	11	3		■		2	GE								µg/L
Chromium, total recoverable	<20	3				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	2.1	1	J			0	GE								µg/L
Silver, total recoverable	<10	3				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.7	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	240	3		■		2	GE								µg/L
Copper, total recoverable	47	3				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	45	3				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	4.1	1				1	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<40	3				0	GE								µg/L
Zinc, total recoverable	110	3		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	46,000	3	V	■		2	GE								µg/L
Nitrate as nitrogen	150,000	160		■		2	GE								µg/L
pH	3.4	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.7E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.1E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	2.4E+01	1		■		2	GP								pCi/L
Cesium-137	-1.3E+00	1	UI			0	GP								pCi/L
Cobalt-60	3.2E+00	1	UI			0	GP								pCi/L
Curium-242	-2.3E-01	1	UI			0	GP								pCi/L
Curium-243/244	2.1E+01	1		■		2	GP								pCi/L
Curium-245/246	1.6E+00	1				0	GP								pCi/L
Iodine-129	6.3E+01	1		■		2	GP								pCi/L
Plutonium-238	-1.8E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-9.6E-02	1	UI			0	GP								pCi/L
Radium-226	5.5E+01	1	J	■		2	GP								pCi/L
Radium-228	2.6E+01	1	J	■		2	GP								pCi/L
Strontium-89	6.0E+01	1		■		2	GP								pCi/L
Strontium-90	2.2E+02	1		■		2	GP								pCi/L
Technetium-99	9.6E+01	1				0	GP								pCi/L
Thorium-228	6.1E-02	1	UI			0	GP								pCi/L
Thorium-230	2.1E-01	1	UI			0	GP								pCi/L
Thorium-232	3.8E-02	1	UI			0	GP								pCi/L
Thorium-234	2.5E+02	1				1	GP								pCi/L
Tritium	8.7E+03	1		■		2	GP								pCi/mL
Uranium-233/234	2.3E+02	1		■		2	GP								pCi/L
Uranium-235	9.8E+00	1				1	GP								pCi/L
Uranium-238	2.5E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.2E-02					0									pCi/L
Nickel-63	3.2E+00					0									pCi/L
Plutonium-241	-3.8E-01					0									pCi/L
Plutonium-242	-1.9E-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 02/15/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	210.0	211.5	ft msl
pH	3.7		pH
Sp. conductance	283		µS/cm
Water temperature	20.3		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.8		NTU
Volume purged	2.6		well volumes
Sampling code		W	
Synchronous water level	210.9 (03/27/95)	211.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	320	2				0	GE								µg/L
Cadmium, total recoverable	<6.7	2				0	GE								µg/L
Chromium, total recoverable	<13	2				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<6.7	2				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.3	1	J			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	31	2				1	GE								µg/L
Copper, total recoverable	28	2				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	14	2				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<27	2				0	GE								µg/L
Zinc, total recoverable	54	2		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	10,000	2		■		2	GE								µg/L
Nitrate as nitrogen	23,000	20	J	■		2	GE								µg/L
pH	3.6	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB105DR (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.0E+02	1		■		2	GP								pCi/L
Nonvolatile beta	4.1E+02	1		■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.5E+01	1				0	GP								pCi/L
Americium-241	3.9E+00	1				1	GP								pCi/L
Cesium-137	-3.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.2E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	5.0E+00	1				1	GP								pCi/L
Curium-245/246	8.9E-01	1	UI			0	GP								pCi/L
Iodine-129	1.7E+01	1		■		2	GP								pCi/L
Plutonium-238	3.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	4.7E-02	1	UI			0	GP								pCi/L
Radium-226	1.7E+01	1				1	GP								pCi/L
Radium-228	1.3E+01	1	J			1	GP								pCi/L
Strontium-89	1.2E+01	1				1	GP								pCi/L
Strontium-90	3.4E+01	1		■		2	GP								pCi/L
Technetium-99	5.3E-01	1	UI			0	GP								pCi/L
Thorium-228	7.1E-01	1	UI			0	GP								pCi/L
Thorium-230	1.9E-02	1	UI			0	GP								pCi/L
Thorium-232	-2.2E-02	1	UI			0	GP								pCi/L
Thorium-234	2.9E+02	1				1	GP								pCi/L
Tritium	5.5E+02	1		■		2	GP								pCi/mL
Uranium-233/234	2.2E+02	1		■		2	GP								pCi/L
Uranium-235	1.6E+01	1		■		2	GP								pCi/L
Uranium-238	5.6E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.5E-02					0									pCi/L
Nickel-63	1.2E+00					0									pCi/L
Plutonium-241	1.9E-01					0									pCi/L
Plutonium-242	9.3E-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 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 02/21/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	202.6	201.5	ft msl
pH	5.0		pH
Sp. conductance	777		µS/cm
Water temperature	19.1		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	2.2		NTU
Volume purged	2.6		well volumes
Sampling code		W	
Synchronous water level	202.2 (03/27/95)	206.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	J			0	GE								µg/L
Barium, total recoverable	180	3	V			0	GE								µg/L
Cadmium, total recoverable	10	3		■		2	GE								µg/L
Chromium, total recoverable	<12	3				0	GE								µg/L
Lead, total recoverable	2.0	1	J			0	GE								µg/L
Mercury, total recoverable	0.62	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<2.0	3				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	5.1	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	63	3				2	GE								µg/L
Copper, total recoverable	6.6	3	J			0	GE								µg/L
Cyanide	<20	1	Y			0	GE								µg/L
Nickel, total recoverable	16	3	J			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	0.96	1	J			0	GE								µg/L
Trichloroethylene	1.9	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<30	3				0	GE								µg/L
Zinc, total recoverable	40	3		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4,300	3	V	■		2	GE								µg/L
Nitrate as nitrogen	90,000	80		■		2	GE								µg/L
pH	4.7	1	J1	■	●	0	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB106C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.5E+01	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	6.7E+00	1	UI			0	GP								pCi/L
Americium-241	9.6E-02	1	UI			0	GP								pCi/L
Cesium-137	-9.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.6E+00	1	UI			0	GP								pCi/L
Curium-242	1.2E-01	1	UI			0	GP								pCi/L
Curium-243/244	8.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	-1.2E-02	1	UI			0	GP								pCi/L
Iodine-129	1.6E+02	1		■		2	GP								pCi/L
Plutonium-238	5.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	9.2E-02	1	UI			0	GP								pCi/L
Radium-226	2.3E+01	1		■		2	GP								pCi/L
Radium-228	7.5E+00	1	J			0	GP								pCi/L
Strontium-89	-1.5E+02	1	UJI			0	GP								pCi/L
Strontium-90	4.8E+02	1	J	■		2	GP								pCi/L
Technetium-99	1.1E+02	1				0	GP								pCi/L
Thorium-228	9.6E-02	1	UI			0	GP								pCi/L
Thorium-230	9.2E-01	1	UI			0	GP								pCi/L
Thorium-232	2.7E-02	1	UI			0	GP								pCi/L
Thorium-234	6.1E+01	1	UI			0	GP								pCi/L
Tritium	2.4E+03	1		■		2	GP								pCi/mL
Uranium-233/234	1.2E+00	1				0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.2E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.5E-04					0									pCi/L
Nickel-63	2.6E+00					0									pCi/L
Plutonium-241	3.7E-01					0									pCi/L
Plutonium-242	1.8E-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 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 02/21/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	207.5	207.4	ft msl
pH	6.6	6.7	pH
Sp. conductance	115	137	µS/cm
Water temperature	16.4	17.2	°C
Alkalinity as CaCO ₃	41	57	mg/L
Turbidity	18.2	7.5	NTU
Volume purged	0.67	0.68	well volumes
Sampling code	I	X	
Synchronous water level	207.5 (03/27/95)	201.1 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	16	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	51	1		■		2	GE	48	1				1	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	2.7	1	JVV			0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	3.5	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	40	1				0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	23	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	0.85	1	J			0	GE								µg/L
Zinc, total recoverable	720	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	54	1		■		2	GE								µg/L
Nitrate as nitrogen	230	1				0	GE	260	1				0	GE	µg/L
pH	6.6	1	J1	■	●	0	GE	6.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	190	2		■		2	GE								µg/L
Dichloromethane	<1.7	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 FSB106D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	7.3E-01	1	UI			0	GP	9.8E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	7.2E-01	1	UI			0	GP	2.6E+00	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Actinium-228	2.3E+00	1	UI			0	GP								pCi/L
Americium-241															
Cesium-137	9.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.5E+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	1.0E+02	1	UI			0	GP								pCi/L
Tritium	1.2E+01	1				1	GP	1.3E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	1.5E+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 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 02/15/95

04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	210.5	211.3	ft msl
pH	6.9	6.3	pH
Sp. conductance	137	152	µS/cm
Water temperature	19	19.8	°C
Alkalinity as CaCO ₃	70	48	mg/L
Turbidity	2.6	0.6	NTU
Volume purged	3.2	2.7	well volumes
Sampling code			
Synchronous water level	211.3 (03/27/95)	211.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	32	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	8.4	1	VV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1			0	GE								µg/L
Tetrachloroethylene	1.1	1	J			0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	1.4	1	J			0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	6.0	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	35	1				1	GE								µg/L
Nitrate as nitrogen	5,000	4	J			1	GE	5,700	4				1	GE	µg/L
pH	7.1	1	J1			0	GE	6.7	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB107C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+00	1				0	GP	1.3E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	4.1E+01	1				1	GP	3.9E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.4E+00	1	UI			0	GP								pCi/L
Americium-241	-2.8E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.8E-01	1	UI			0	GP								pCi/L
Cobalt-60	-1.5E+00	1	UI			0	GP								pCi/L
Curium-242	3.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.1E-04	1	UI			0	GP								pCi/L
Curium-245/246	-4.7E-03	1	UI			0	GP								pCi/L
Iodine-129	2.1E+00	1	UI			0	GP								pCi/L
Plutonium-238	1.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	2.6E-01	1	UI			0	GP								pCi/L
Radium-228	-8.2E-01	1	UJI			0	GP								pCi/L
Strontium-89	1.7E+00	1				0	GP								pCi/L
Strontium-90	1.2E+01	1		■		2	GP								pCi/L
Technetium-99	-1.8E+01	1	UI			0	GP								pCi/L
Thorium-228	5.7E-02	1	UI			0	GP								pCi/L
Thorium-230	1.3E-01	1	UI			0	GP								pCi/L
Thorium-232	-7.4E-02	1	UI			0	GP								pCi/L
Thorium-234	1.4E+01	1	UI			0	GP								pCi/L
Tritium	1.2E+02	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.5E-01	1	UI			0	GP								pCi/L
Uranium-235	3.1E-02	1	UI			0	GP								pCi/L
Uranium-238	3.2E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.4E-07					0									pCi/L
Nickel-63	-1.5E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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

<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>
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 02/15/95

05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	214.0	215.3	ft msl
pH	3.9		pH
Sp. conductance	573		µS/cm
Water temperature	19.4		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.6		NTU
Volume purged	2.4		well volumes
Sampling code		W	
Synchronous water level	215.3 (03/27/95)	214.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	150	1				0	GE								µg/L
Cadmium, total recoverable	6.6	1				2	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	5.4	1			■	2	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.7	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	14	1				0	GE								µg/L
Copper, total recoverable	22	1				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	12	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	15	1			■	2	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	57	1			■	0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	15,000	1				2	GE								µg/L
Nitrate as nitrogen	69,000	40				2	GE								µg/L
pH	3.6	1	J1		●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB107D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+03	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.8E+01	1	UI			0	GP								pCi/L
Americium-241	2.9E+01	1		■		2	GP								pCi/L
Cesium-137	-1.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	4.8E+00	1				0	GP								pCi/L
Curium-242	-8.8E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.3E+01	1		■		2	GP								pCi/L
Curium-245/246	9.0E-01	1	UI			0	GP								pCi/L
Iodine-129	1.6E+02	1		■		2	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	-2.4E-02	1	UI			0	GP								pCi/L
Radium-226	2.2E+01	1	J	■		2	GP								pCi/L
Radium-228	1.7E+01	1	J			1	GP								pCi/L
Strontium-89	6.8E+01	1		■		2	GP								pCi/L
Strontium-90	2.5E+02	1		■		2	GP								pCi/L
Technetium-99	5.9E+01	1				0	GP								pCi/L
Thorium-228	-1.5E-01	1	UI			0	GP								pCi/L
Thorium-230	2.7E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	5.3E+02	1		■		2	GP								pCi/L
Tritium	2.5E+03	1		■		2	GP								pCi/mL
Uranium-233/234	4.3E+02	1		■		2	GP								pCi/L
Uranium-235	2.4E+01	1		■		2	GP								pCi/L
Uranium-238	5.5E+02	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.8E-02					0									pCi/L
Nickel-63	4.8E+00					0									pCi/L
Plutonium-241	-9.5E-02					0									pCi/L
Plutonium-242	-4.8E-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 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 02/13/95 04/12/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	216.8	217.9	ft msl
pH	5.0	5.5	pH
Sp. conductance	43	45	µS/cm
Water temperature	16.9	21.1	°C
Alkalinity as CaCO ₃	3	8	mg/L
Turbidity	4.2	3	NTU
Volume purged	0.82	0.75	well volumes
Sampling code	X	X	
Synchronous water level	217.7 (03/27/95)	218.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	10	1				0	GE	11	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1				0	GE	0.53	1	J			0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	6.4	1				0	GE	9.7	1	J			0	GE	µg/L
Mercury, total recoverable	0.058	1	J			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE	<0.65	1				0	GE	µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<0.50	1	J1			0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	7.2	1				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	4.0	1	J			0	GE	3.0	1	J			0	GE	µg/L
Phenols	<8.3	1	J			0	GE								µg/L
Tetrachloroethylene	<0.050	1	J1			0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<0.050	1	J1			0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	0.36	1	J			0	GE								µg/L
Zinc, total recoverable	53	1	V	■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	120	1	V	■		2	GE								µg/L
Nitrate as nitrogen	810	1				0	GE	840	1				0	GE	µg/L
pH	6.1	1	J1	■	●	0	GE	6.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<0.98	1	J1		●	0	GE								µg/L
Dichloromethane	<0.50	1	J1			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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+00	1				0	GP	1.1E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	1.5E+00	1	UI			0	GP	1.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-3.9E-01	1	UI			0	GP								pCi/L
Americium-241	-6.2E-02	1	UI			0	GP								pCi/L
Cesium-137	-2.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	6.2E+00	1	UI			0	GP								pCi/L
Curium-242	8.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	-4.8E-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	1.9E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.3E-02	1	UI			0	GP								pCi/L
Radium-226	1.5E+00	1				0	GP								pCi/L
Radium-228	4.8E+00	1				0	GP								pCi/L
Strontium-89	-1.3E+00	1	UI			0	GP								pCi/L
Strontium-90	-6.5E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.0E+01	1	UI			0	GP								pCi/L
Thorium-228	7.8E-02	1	UI			0	GP								pCi/L
Thorium-230	6.9E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	9.1E+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	8.3E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	4.2E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.4E-04					0									pCi/L
Nickel-63	6.2E+00					0									pCi/L
Plutonium-241	-5.1E-02					0									pCi/L
Plutonium-242	-2.5E-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 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 02/13/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	212.9	214.1	ft msl
pH	5.2	6.4	pH
Sp. conductance	38	31	μS/cm
Water temperature	16.6	18.6	°C
Alkalinity as CaCO ₃	8	9	mg/L
Turbidity	25.9	2.8	NTU
Volume purged	0.86	0.92	well volumes
Sampling code	X	X	
Synchronous water level	213.8 (03/27/95)	214.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								μg/L
Barium, total recoverable	7.3	1	V			0	GE								μg/L
Cadmium, total recoverable	<2.0	1				0	GE	<2.0	1				0	GE	μg/L
Chromium, total recoverable	2.4	1	J			0	GE								μg/L
Lead, total recoverable	9.0	1	V			0	GE	7.5	1				0	GE	μg/L
Mercury, total recoverable	<0.20	1				0	GE								μg/L
Selenium, total recoverable	<3.3	1				0	GE								μg/L
Silver, total recoverable	<0.65	1				0	GE								μg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								μg/L
Benzene	<0.50	1	J1			0	GE								μg/L
Cobalt, total recoverable	0.60	1	J			0	GE								μg/L
Copper, total recoverable	11	1				0	GE								μg/L
Cyanide	<8.3	1				0	GE								μg/L
Nickel, total recoverable	4.0	1	J			0	GE								μg/L
Phenols	<8.3	1	J3			0	GE								μg/L
Tetrachloroethylene	<0.050	1	J1			0	GE								μg/L
Thallium, total recoverable	<3.3	1				0	GE								μg/L
Trichloroethylene	<0.050	1	J1			0	GE								μg/L
Trichlorofluoromethane	<1.7	1				0	GE								μg/L
Vanadium, total recoverable	0.54	1	J			0	GE								μg/L
Zinc, total recoverable	89	1	V	■		0	GE								μg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	100	1	V	■		2	GE								μg/L
Nitrate as nitrogen	890	1				0	GE	950	1				0	GE	μg/L
pH	6.3	1	J1	■	●	0	GE	6.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<1.0	1	J1		●	0	GE								μg/L
Dichloromethane	<0.50	1	J1			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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E+00	1				0	GP	5.7E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	1.1E+00	1	UI			0	GP	2.3E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	7.7E+00	1	UI			0	GP								pCi/L
Americium-241	2.8E-01	1	UI			0	GP								pCi/L
Cesium-137	7.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	-2.0E-01	1	UI			0	GP								pCi/L
Curium-242	-1.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.9E-01	1	UI			0	GP								pCi/L
Curium-245/246	4.3E-02	1	UI			0	GP								pCi/L
Iodine-129	-1.5E-01	1	UI			0	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	3.3E-02	1	UI			0	GP								pCi/L
Radium-226	3.2E-01	1	UI			0	GP								pCi/L
Radium-228	1.2E+00	1				0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	-4.4E-01	1	UI			0	GP								pCi/L
Technetium-99	-4.4E+00	1	UI			0	GP								pCi/L
Thorium-228	2.1E-01	1	UI			0	GP								pCi/L
Thorium-230	1.8E-01	1	UI			0	GP								pCi/L
Thorium-232	-2.4E-02	1	UI			0	GP								pCi/L
Thorium-234	2.3E+02	1				1	GP								pCi/L
Tritium	2.4E+01	1		■		2	GP	2.7E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.7E-02	1	UI			0	GP								pCi/L
Uranium-235	-2.7E-02	1	UI			0	GP								pCi/L
Uranium-238	-2.0E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	5.7E-04					0									pCi/L
Nickel-63	-2.0E-01					0									pCi/L
Plutonium-241	1.3E-01					0									pCi/L
Plutonium-242	6.6E-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 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 ₁)

SAMPLE DATE 02/19/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	201.2	201.2	ft msl
pH	6.0	6.0	pH
Sp. conductance	494	482	µS/cm
Water temperature	20.3	20.3	°C
Alkalinity as CaCO ₃	8	11	mg/L
Turbidity	0.5	1.7	NTU
Volume purged	3.0	2.8	well volumes
Sampling code			
Synchronous water level	201.4 (03/27/95)	200.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	2.6	1	J			0	GE								µg/L
Barium, total recoverable	110	1				0	WA								µg/L
Cadmium, total recoverable	1.4	1	J			0	WA	1.5	1	J			0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	2.4	1	J			0	WA	2.2	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	2.2	1	J			0	GE								µg/L
Silver, total recoverable	0.27	1	J			0	WA								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.5	1	J			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	1.9	1	J			0	WA								µg/L
Copper, total recoverable	6.3	1	J			0	WA								µg/L
Cyanide	<18	1				0	WA								µg/L
Nickel, total recoverable	13	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	4.2	1	J			2	WA								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	120	1	V	■		0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	VV	■		2	WA								µg/L
Nitrate as nitrogen	55,000	100		■		2	WA	53,000	40		■		2	GE	µg/L
pH	6.0	1	J1	■	●	0	GE	6.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	WA								µg/L
Dichloromethane	<1.7	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 FSB110C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.0E+00	1				1	GP	2.4E+00	1				0	GP	pCi/L
Nonvolatile beta	6.7E+01	1		■		2	GP	5.6E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-1.5E-01	1	UI			0	TM								pCi/L
Americium-241	7.6E-04	1	UI			0	GP								pCi/L
Cesium-137	1.3E-01	1	UI			0	TM								pCi/L
Cobalt-60	-4.7E-01	1	UI			0	GP								pCi/L
Curium-242	2.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.4E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	2.5E+01	1		■		2	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	TM								pCi/L
Plutonium-239/240	1.9E-02	1	UI			0	GP								pCi/L
Radium-226	1.4E+00	1				0	TM								pCi/L
Radium-228	3.5E+00	1	J			0	TM								pCi/L
Strontium-89	-5.0E-01	1	UI			0	GP								pCi/L
Strontium-90	1.2E+01	1		■		2	GP								pCi/L
Technetium-99	1.2E+02	1				0	TM								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	JV1			0	TM								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	9.8E+01	1	J1			0	TM								pCi/L
Tritium	1.8E+03	1		■		2	TM	1.4E+03	1		■		2	GP	pCi/mL
Uranium-233/234	5.4E-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	TM								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.2E-05					0									pCi/L
Nickel-63	-4.7E-01					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 FSB110D

<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>
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 02/19/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	206.2	206.2	ft msl
pH	3.2		pH
Sp. conductance	2,290		μS/cm
Water temperature	20.4		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.2		NTU
Volume purged	3.6		well volumes
Sampling code		W	
Synchronous water level	206.8 (03/27/95)	205.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								μg/L
Barium, total recoverable	150	10	V			0	GE								μg/L
Cadmium, total recoverable	6.6	10	J			2	GE								μg/L
Chromium, total recoverable	<40	10				0	GE								μg/L
Lead, total recoverable	<5.0	1				0	GE								μg/L
Mercury, total recoverable	4.8	1		■		2	GE								μg/L
Selenium, total recoverable	<5.0	1				0	GE								μg/L
Silver, total recoverable	<6.5	10				0	GE								μg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.5	1	J1			1	GE								μg/L
Benzene	<1.7	1				0	GE								μg/L
Cobalt, total recoverable	25	10	J			1	GE								μg/L
Copper, total recoverable	64	10		■		0	GE								μg/L
Cyanide	8.8	1	JVVY	■		0	GE								μg/L
Nickel, total recoverable	66	10	J	■		1	GE								μg/L
Phenols	<10	1				0	GE								μg/L
Tetrachloroethylene	<1.7	1				0	GE								μg/L
Thallium, total recoverable	0.75	1	J			0	GE								μg/L
Trichloroethylene	<1.7	1				0	GE								μg/L
Trichlorofluoromethane	<1.7	1				0	GE								μg/L
Vanadium, total recoverable	<100	10				0	GE								μg/L
Zinc, total recoverable	230	10		■		0	GE								μg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	96,000	10	V	■		2	GE								μg/L
Nitrate as nitrogen	290,000	160		■		2	GE								μg/L
pH	3.2	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								μg/L
Dichloromethane	<1.7	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 FSB110D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+03	1	J	■		2	GP								pCi/L
Nonvolatile beta	8.7E+02	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.8E+01	1				0	GP								pCi/L
Americium-241	9.9E+01	1		■		2	GP								pCi/L
Cesium-137	5.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	0.0E+00	1	UI			0	GP								pCi/L
Curium-242	1.3E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.5E+02	1		■		2	GP								pCi/L
Curium-245/246	9.9E+01	1		■		2	GP								pCi/L
Iodine-129	1.3E+02	1		■		2	GP								pCi/L
Plutonium-238	6.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.2E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+01	1				1	GP								pCi/L
Radium-228	3.4E+01	1	J	■		2	GP								pCi/L
Strontium-89	-1.7E+02	1	UJI			0	GP								pCi/L
Strontium-90	3.1E+02	1	J	■		2	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	1.1E+00	1				0	GP								pCi/L
Thorium-230	6.9E-01	1	UI			0	GP								pCi/L
Thorium-232	1.2E-01	1	UI			0	GP								pCi/L
Thorium-234	6.1E+02	1		■		2	GP								pCi/L
Tritium	1.9E+04	1		■		2	GP								pCi/mL
Uranium-233/234	3.5E+02	1		■		2	GP								pCi/L
Uranium-235	2.8E+01	1		■		2	GP								pCi/L
Uranium-238	1.3E+03	1	J	■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.5E-01					0									pCi/L
Nickel-63	0.0E+00					0									pCi/L
Plutonium-241	8.6E-02					0									pCi/L
Plutonium-242	4.3E-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 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 02/20/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	212.5	212.9	ft msl
pH	5.7	5.2	pH
Sp. conductance	58	51	µS/cm
Water temperature	19.1	19.3	°C
Alkalinity as CaCO ₃	9	0	mg/L
Turbidity	0.4	0.7	NTU
Volume purged	4.4	3.8	well volumes
Sampling code			
Synchronous water level	212.8 (03/27/95)	212.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	7.3	1	V			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	<5.0	1				0	GE	1.7	1	JVV			0	GE	µg/L
Mercury, total recoverable	0.082	1	JVV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	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	2.6	1	JVV			0	GE								µg/L
Nickel, total recoverable	<10	1	V			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	1.4	1	J			0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	3.6	1				1	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	0.43	1	J			0	GE								µg/L
Zinc, total recoverable	<5.0	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	5.6	1	J			0	GE								µg/L
Nitrate as nitrogen	1,900	1				0	GE	1,600	1				0	GE	µg/L
pH	5.7	1	J1	■	●	0	GE	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB111C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.6E-01	1	UI			0	GP	3.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	4.8E-01	1	UI			0	GP	2.7E-01	1	UJI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-2.1E+00	1	UI			0	GP								pCi/L
Americium-241	1.3E-01	1	UI			0	GP								pCi/L
Cesium-137	3.4E-03	1	UI			0	GP								pCi/L
Cobalt-60	1.7E-01	1	UI			0	GP								pCi/L
Curium-242	-2.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.1E-01	1	UI			0	GP								pCi/L
Curium-245/246	-9.0E-03	1	UI			0	GP								pCi/L
Iodine-129	2.0E+00	1		■		2	GP								pCi/L
Plutonium-238	2.7E-01	1	UJI			0	GP								pCi/L
Plutonium-239/240	-9.7E-03	1	UI			0	GP								pCi/L
Radium-226	1.5E-01	1	UI			0	GP								pCi/L
Radium-228	-1.3E-01	1	UJI			0	GP								pCi/L
Strontium-89	-1.4E-01	1	UI			0	GP								pCi/L
Strontium-90	-3.2E-02	1	UI			0	GP								pCi/L
Technetium-99	-2.1E+01	1	UI			0	GP								pCi/L
Thorium-228	2.7E-01	1	UI			0	GP								pCi/L
Thorium-230	2.0E-01	1	UI			0	GP								pCi/L
Thorium-232	-3.2E-02	1	UI			0	GP								pCi/L
Thorium-234	1.1E+02	1	UI			0	GP								pCi/L
Tritium	5.4E+00	1				0	GP	4.5E+02	1		■		2	GP	pCi/mL
Uranium-233/234	6.4E-01	1	UI			0	GP								pCi/L
Uranium-235	3.1E-02	1	UI			0	GP								pCi/L
Uranium-238	7.1E-01	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.3E-04					0									pCi/L
Nickel-63	1.7E-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 FSB111D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/20/95 04/12/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	216.0	217.0	ft msl
pH	5.1	4.5	pH
Sp. conductance	35	31	µS/cm
Water temperature	20	19.9	°C
Alkalinity as CaCO ₃	1	0	mg/L
Turbidity	0.4	0.6	NTU
Volume purged	3.4	2.6	well volumes
Sampling code			
Synchronous water level	216.8 (03/27/95)	216.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	10	1	V			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	3.9	1	J			0	GE	7.6	1				0	GE	µg/L
Mercury, total recoverable	0.19	1	JVV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<5.0	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	0.96	1	J			0	GE								µg/L
Copper, total recoverable	43	1				0	GE								µg/L
Cyanide	2.6	1	JVV			0	GE								µg/L
Nickel, total recoverable	1.9	1	JVV			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	3.4	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	46	1			■	0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	17	1	J			0	GE								µg/L
Nitrate as nitrogen	1,700	1				0	GE	1,500	1				0	GE	µg/L
pH	5.1	1	J1	■	●	0	GE	5.2	1	J	■	●	0	WA	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<69	4				0	GE								µg/L
Dichloromethane	<1.7	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 FSB111D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1				0	GP	1.4E+00	1	J1			0	TM	pCi/L
Nonvolatile beta	2.1E+00	1				0	GP	4.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.9E+00	1	UI			0	GP								pCi/L
Americium-241	-4.5E-02	1	UI			0	GP								pCi/L
Cesium-137	2.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	5.8E-01	1	UI			0	GP								pCi/L
Curium-242	4.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	4.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	5.0E-02	1	UI			0	GP								pCi/L
Iodine-129	2.3E-01	1	UI			0	GP								pCi/L
Plutonium-238	5.0E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	-5.8E-03	1	UI			0	GP								pCi/L
Radium-226	7.3E-01	1	UI			0	GP								pCi/L
Radium-228	6.1E-01	1	UJI			0	GP								pCi/L
Strontium-89	3.2E-01	1				0	GP								pCi/L
Strontium-90	6.6E-01	1				0	GP								pCi/L
Technetium-99	-1.9E+01	1	UI			0	GP								pCi/L
Thorium-228	7.9E-02	1	UI			0	GP								pCi/L
Thorium-230	-1.6E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.6E-02	1	UI			0	GP								pCi/L
Thorium-234	7.4E+00	1	UI			0	GP								pCi/L
Tritium	1.0E+01	1				0	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234	5.7E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	3.8E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.4E-04					0									pCi/L
Nickel-63	5.8E-01					0									pCi/L
Plutonium-241	-2.3E-02					0									pCi/L
Plutonium-242	-1.2E-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 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	02/21/95	04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	153.8	153.7	ft msl
pH	7.4	7.1	pH
Sp. conductance	147	147	µS/cm
Water temperature	18.6	19	°C
Alkalinity as CaCO ₃	61	37	mg/L
Turbidity	0.6	0.6	NTU
Volume purged	3.4	3.6	well volumes
Sampling code			
Synchronous water level	153.7 (03/27/95)	153.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.1	1	J			0	GE								µg/L
Barium, total recoverable	51	1	V			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	<5.0	1				0	GE	<5.0	1	V			0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	1.8	1	J			0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	4.5	1	J			1	GE								µg/L
Benzene	<1.7	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	<20	1				0	GE								µg/L
Nickel, total recoverable	<10	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	<5.0	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	43	1				1	GE								µg/L
Nitrate as nitrogen	1,900	1				0	GE	1,600	1				0	GE	µg/L
pH	7.3	1	J1		●	0	GE	6.8	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB112A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.4E-01	1	UI			0	GP	9.5E-01	1				0	GP	pCi/L
Nonvolatile beta	1.4E+01	1				0	GP	9.7E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.7E+00	1	UI			0	GP								pCi/L
Americium-241	1.1E-01	1	UI			0	GP								pCi/L
Cesium-137	2.3E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.6E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	2.1E-01	1	UI			0	GP								pCi/L
Curium-245/246	-5.5E-03	1	UI			0	GP								pCi/L
Iodine-129	9.9E-01	1	UI			0	GP								pCi/L
Plutonium-238	6.7E-03	1	UJI			0	GP								pCi/L
Plutonium-239/240	-1.5E-02	1	UI			0	GP								pCi/L
Radium-226	4.4E-01	1	UI			0	GP								pCi/L
Radium-228	1.9E+00	1	J			0	GP								pCi/L
Strontium-89	6.3E-01	1				0	GP								pCi/L
Strontium-90	4.0E+00	1				1	GP								pCi/L
Technetium-99	-1.7E+01	1	UI			0	GP								pCi/L
Thorium-228	6.6E-02	1	UI			0	GP								pCi/L
Thorium-230	6.4E-02	1	UI			0	GP								pCi/L
Thorium-232	4.7E-02	1	UI			0	GP								pCi/L
Thorium-234	3.3E+01	1	UI			0	GP								pCi/L
Tritium	1.1E+02	1		■		2	GP	1.6E+02	1		■		2	GP	pCi/mL
Uranium-233/234	8.1E-02	1	UI			0	GP								pCi/L
Uranium-235	-5.4E-03	1	UI			0	GP								pCi/L
Uranium-238	8.1E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.3E-04					0									pCi/L
Nickel-63	1.6E+00					0									pCi/L
Plutonium-241	-6.0E-02					0									pCi/L
Plutonium-242	-3.0E-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 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 02/21/95 05/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	202.6	202.0	ft msl
pH	4.7		pH
Sp. conductance	1,290		µS/cm
Water temperature	19.1		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	4.6		NTU
Volume purged	2.5		well volumes
Sampling code		W	
Synchronous water level	202.4 (03/27/95)	202.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	620	10	V			0	GE								µg/L
Cadmium, total recoverable	39	10		■		2	GE								µg/L
Chromium, total recoverable	<40	10				0	GE								µg/L
Lead, total recoverable	0.71	1	J			0	GE								µg/L
Mercury, total recoverable	0.44	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<6.5	10				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.8	1	J1			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	290	10		■		2	GE								µg/L
Copper, total recoverable	18	10	J			0	GE								µg/L
Cyanide	<20	1	Y			0	GE								µg/L
Nickel, total recoverable	87	10	J	■		1	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	0.90	1	J			0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<100	10				0	GE								µg/L
Zinc, total recoverable	180	10		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	17,000	10	V	■		2	GE								µg/L
Nitrate as nitrogen	210,000	160		■		2	GE								µg/L
pH	4.5	1	J1	■	●	0	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB112C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.8E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.4E+01	1	UI			0	GP								pCi/L
Americium-241	7.2E-02	1	UI			0	GP								pCi/L
Cesium-137	6.9E-01	1	UI			0	GP								pCi/L
Cobalt-60	0.0E+00	1	UI			0	GP								pCi/L
Curium-242	1.2E-01	1	UI			0	GP								pCi/L
Curium-243/244	1.3E-01	1	UI			0	GP								pCi/L
Curium-245/246	-1.2E-02	1	UI			0	GP								pCi/L
Iodine-129	2.2E+02	1		■		2	GP								pCi/L
Plutonium-238	1.7E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.2E-01	1	UI			0	GP								pCi/L
Radium-226	9.8E+01	1		■		2	GP								pCi/L
Radium-228	3.0E+01	1	J	■		2	GP								pCi/L
Strontium-89	-2.9E+02	1	UJI			0	GP								pCi/L
Strontium-90	9.2E+02	1	J	■		2	GP								pCi/L
Technetium-99	3.2E+02	1				0	GP								pCi/L
Thorium-228	8.6E-01	1	UI			0	GP								pCi/L
Thorium-230	7.7E-01	1	UI			0	GP								pCi/L
Thorium-232	2.4E-02	1	UI			0	GP								pCi/L
Thorium-234	6.6E+01	1	UI			0	GP								pCi/L
Tritium	7.3E+03	1		■		2	GP								pCi/mL
Uranium-233/234	2.3E+00	1				0	GP								pCi/L
Uranium-235	2.1E-01	1	UI			0	GP								pCi/L
Uranium-238	2.8E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.0E-04					0									pCi/L
Nickel-63	0.0E+00					0									pCi/L
Plutonium-241	4.6E-01					0									pCi/L
Plutonium-242	2.3E-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 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 02/21/95 05/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	206.6	206.2	ft msl
pH	3.8		pH
Sp. conductance	1,020		µS/cm
Water temperature	18.1		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	1.1		NTU
Volume purged	5.9		well volumes
Sampling code		W	
Synchronous water level	206.8 (03/27/95)	206.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	570	3	V			0	GE								µg/L
Cadmium, total recoverable	16	3		■		2	GE								µg/L
Chromium, total recoverable	<12	3				0	GE								µg/L
Lead, total recoverable	1.4	1	J			0	GE								µg/L
Mercury, total recoverable	0.18	1	JVV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<2.0	3				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	4.5	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	77	3		■		2	GE								µg/L
Copper, total recoverable	70	3		■		0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	41	3				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	1.2	1	J			1	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<30	3				0	GE								µg/L
Zinc, total recoverable	88	3		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	44,000	3	V	■		2	GE								µg/L
Nitrate as nitrogen	160,000	160		■		2	GE								µg/L
pH	3.7	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB112D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.4E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	3.1E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.6E+01	1				0	GP								pCi/L
Americium-241	4.3E-01	1	UI			0	GP								pCi/L
Cesium-137	-6.9E-01	1	UI			0	GP								pCi/L
Cobalt-60	5.5E+00	1				0	GP								pCi/L
Curium-242	4.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	5.5E-01	1	UI			0	GP								pCi/L
Curium-245/246	8.1E-02	1	UI			0	GP								pCi/L
Iodine-129	7.3E+01	1		■		2	GP								pCi/L
Plutonium-238	1.5E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.6E-02	1	UI			0	GP								pCi/L
Radium-226	9.1E+01	1		■		2	GP								pCi/L
Radium-228	4.6E+01	1	J	■		2	GP								pCi/L
Strontium-89	-4.6E+02	1	UJI			0	GP								pCi/L
Strontium-90	1.2E+03	1	J	■		2	GP								pCi/L
Technetium-99	5.4E+01	1				0	GP								pCi/L
Thorium-228	9.7E-01	1	UI			0	GP								pCi/L
Thorium-230	7.9E-01	1	UI			0	GP								pCi/L
Thorium-232	2.4E-02	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	8.8E+03	1		■		2	GP								pCi/mL
Uranium-233/234	1.2E+01	1				1	GP								pCi/L
Uranium-235	2.8E-01	1	UI			0	GP								pCi/L
Uranium-238	9.4E+00	1				1	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.6E-03					0									pCi/L
Nickel-63	5.5E+00					0									pCi/L
Plutonium-241	-6.5E-02					0									pCi/L
Plutonium-242	-3.3E-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 FSB113A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/17/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	159.0	159.5	ft msl
pH	12.0	11.2	pH
Sp. conductance	1,734	1,640	µS/cm
Water temperature	18.4	17.1	°C
Alkalinity as CaCO ₃	401	458	mg/L
Turbidity	1.5	1	NTU
Volume purged	0.82	0.83	well volumes
Sampling code	X	X	
Synchronous water level	58.4 (03/27/95)	159.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	290	10	V			0	GE								µg/L
Cadmium, total recoverable	<33	10				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<67	10				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	11	1	VV			0	GE	µg/L
Mercury, total recoverable	<0.33	1	V			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<33	10	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<67	10				0	GE								µg/L
Copper, total recoverable	<67	10				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	<67	10	V			0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<130	10				0	GE								µg/L
Zinc, total recoverable	<33	10				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,100	10		■		2	GE								µg/L
Nitrate as nitrogen	6,800	4				1	GE	3,300	2				0	GE	µg/L
pH	12	1	J	■	●	2	GE	12	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB113A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.9E+00	1				0	GP	3.4E+00	1				0	GP	pCi/L
Nonvolatile beta	9.3E+00	1				0	GP	7.9E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.2E+00	1	UI			0	GP								pCi/L
Americium-241	8.8E-02	1	UI			0	GP								pCi/L
Cesium-137	-2.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	8.5E-02	1	UI			0	GP								pCi/L
Curium-242	2.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	-1.1E-02	1	UI			0	GP								pCi/L
Iodine-129	2.8E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.5E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	-5.1E-03	1	UI			0	GP								pCi/L
Radium-226	1.6E+00	1	J			0	GP								pCi/L
Radium-228	-5.8E-04	1	UJI			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	-5.6E-01	1	UI			0	GP								pCi/L
Technetium-99	-9.0E+00	1	UI			0	GP								pCi/L
Thorium-228	8.3E-03	1	UI			0	GP								pCi/L
Thorium-230	-6.4E-03	1	UI			0	GP								pCi/L
Thorium-232	-6.4E-03	1	UI			0	GP								pCi/L
Thorium-234	9.1E+01	1	UI			0	GP								pCi/L
Tritium	1.8E+02	1		■		2	GP	1.7E+02	1		■		2	GP	pCi/mL
Uranium-233/234	3.6E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	9.9E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.4E-05					0									pCi/L
Nickel-63	8.5E-02					0									pCi/L
Plutonium-241	-2.0E-02					0									pCi/L
Plutonium-242	-1.0E-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 FSB113C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/17/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	203.0	203.4	ft msl
pH	10.5	10.5	pH
Sp. conductance	206	155	µS/cm
Water temperature	18.2	17.6	°C
Alkalinity as CaCO ₃	46	51	mg/L
Turbidity	4.2	6.1	NTU
Volume purged	0.84	0.80	well volumes
Sampling code	X	X	
Synchronous water level	203.5 (03/27/95)	202.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	50	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	2.9	1	J			0	GE	3.1	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1	V			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	2.6	1	J			0	GE								µg/L
Benzene	<1.7	1	Y			0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1	Y			0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	Y			0	GE								µg/L
Tetrachloroethylene	2.9	1	Y			1	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1	Y			0	GE								µg/L
Trichlorofluoromethane	<1.7	1	Y			0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	5.2	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1		■		2	GE								µg/L
Nitrate as nitrogen	4,300	4	Y			0	GE	4,600	4				0	GE	µg/L
pH	11	1	JY	■	●	2	GE	11	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1	Y			0	GE								µg/L
Dichloromethane	<1.7	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 FSB113C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.1E-01	1	UI			0	GP	2.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.5E+00	1				0	GP	1.4E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.1E+00	1	UI			0	GP								pCi/L
Americium-241	-2.8E-02	1	UI			0	GP								pCi/L
Cesium-137	-5.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	-2.3E+00	1	UI			0	GP								pCi/L
Curium-242	-1.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.3E-02	1	UI			0	GP								pCi/L
Iodine-129	1.2E-02	1	UI			0	GP								pCi/L
Plutonium-238	0.0E+00	1	UJI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.6E-01	1	UJI			0	GP								pCi/L
Radium-228	-4.3E-01	1	UJI			0	GP								pCi/L
Strontium-89	1.7E-01	1	UI			0	GP								pCi/L
Strontium-90	2.5E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.5E+01	1	UI			0	GP								pCi/L
Thorium-228	2.9E-02	1	UI			0	GP								pCi/L
Thorium-230	1.0E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	6.6E+01	1		■		2	GP	7.0E+01	1			■	2	GP	pCi/mL
Uranium-233/234	2.4E-02	1	UI			0	GP								pCi/L
Uranium-235	-6.1E-03	1	UI			0	GP								pCi/L
Uranium-238	4.8E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.7E-05					0									pCi/L
Nickel-63	-2.3E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 FSB113D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/16/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	208.0	208.6	ft msl
pH	4.9	4.7	pH
Sp. conductance	27	22	µS/cm
Water temperature	19.1	17.8	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	2.5	0.8	NTU
Volume purged	9.5	7.9	well volumes
Sampling code			
Synchronous water level	208.8 (03/27/95)	207.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	4.8	1	J			0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	2.6	1	J			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	5.7	1	J			0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	4.1	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	27	1	J			1	GE								µg/L
Nitrate as nitrogen	730	1				0	GE	720	1				0	GE	µg/L
pH	5.0	1	J1	■	●	0	GE	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB113D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.9E-01	1	UI			0	GP	9.3E-01	1	J			0	GP	pCi/L
Nonvolatile beta	3.2E-01	1	UI			0	GP	9.1E-02	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.0E+00	1	UI			0	GP								pCi/L
Americium-241	4.7E-02	1	UI			0	GP								pCi/L
Cesium-137	1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	-1.2E-01	1	UI			0	GP								pCi/L
Curium-242	2.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.4E-02	1	UI			0	GP								pCi/L
Curium-245/246	-4.6E-03	1	UI			0	GP								pCi/L
Iodine-129	1.4E+00	1	UI			0	GP								pCi/L
Plutonium-238	5.8E-04	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.1E-02	1	UI			0	GP								pCi/L
Radium-226	1.6E-01	1	UI			0	GP								pCi/L
Radium-228	-4.1E-01	1	UJI			0	GP								pCi/L
Strontium-89	-7.5E-01	1	UI			0	GP								pCi/L
Strontium-90	-5.4E-01	1	UI			0	GP								pCi/L
Technetium-99	-8.9E+00	1	UI			0	GP								pCi/L
Thorium-228	7.3E-02	1	UI			0	GP								pCi/L
Thorium-230	0.0E+00	1	UI			0	GP								pCi/L
Thorium-232	-1.7E-02	1	UI			0	GP								pCi/L
Thorium-234	5.1E+01	1	UI			0	GP								pCi/L
Tritium	9.8E+00	1				0	GP	9.5E+00	1				0	GP	pCi/mL
Uranium-233/234	7.5E-02	1	UI			0	GP								pCi/L
Uranium-235	4.0E-02	1	UI			0	GP								pCi/L
Uranium-238	8.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.3E-05					0									pCi/L
Nickel-63	-1.2E-01					0									pCi/L
Plutonium-241	-4.4E-02					0									pCi/L
Plutonium-242	-2.2E-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 FSB114A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/20/95 04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	155.9	155.9	ft msl
pH	7.8	7.3	pH
Sp. conductance	194	177	µS/cm
Water temperature	19.7	19.4	°C
Alkalinity as CaCO ₃	73	58	mg/L
Turbidity	3.9	4.9	NTU
Volume purged	5.3	3.4	well volumes
Sampling code			
Synchronous water level	156.0 (03/27/95)	155.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	45	1	V			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	<5.0	1				0	GE	0.91	1	JVV			0	GE	µg/L
Mercury, total recoverable	0.080	1	JVV			0	GE								µg/L
Selenium, total recoverable	1.7	1	JVV			0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<5.0	1	J1			0	GE								µg/L
Benzene	<1.7	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	2.0	1	JVV			0	GE								µg/L
Nickel, total recoverable	<10	1	V			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	1.5	1	J			0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	0.68	1	J			0	GE								µg/L
Zinc, total recoverable	4.1	1	J			0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	110	1		■		2	GE								µg/L
Nitrate as nitrogen	1,800	1				0	GE	960	1				0	GE	µg/L
pH	7.7	1	J1		●	0	GE	7.7	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB114A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.0E-01	1	UI			0	GP	1.4E+00	1				0	GP	pCi/L
Nonvolatile beta	8.8E-01	1				0	GP	1.1E+00	1	UJI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.5E+00	1	UI			0	GP								pCi/L
Americium-241	5.3E-02	1	UI			0	GP								pCi/L
Cesium-137	1.8E+00	1	UI			0	GP								pCi/L
Cobalt-60	-2.0E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-2.1E-04	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-2.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.9E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	-4.6E-03	1	UI			0	GP								pCi/L
Radium-226	4.8E-01	1	UI			0	GP								pCi/L
Radium-228	5.1E-01	1	UJI			0	GP								pCi/L
Strontium-89	4.2E-01	1				0	GP								pCi/L
Strontium-90	5.5E-01	1				0	GP								pCi/L
Technetium-99	-1.7E+01	1	UI			0	GP								pCi/L
Thorium-228	6.0E-02	1	UI			0	GP								pCi/L
Thorium-230	2.9E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.8E+00	1	UI			0	GP								pCi/L
Tritium	8.6E-01	1				0	GP	4.9E+02	1		■		2	GP	pCi/mL
Uranium-233/234	9.1E-02	1	UI			0	GP								pCi/L
Uranium-235	4.1E-02	1	UI			0	GP								pCi/L
Uranium-238	1.2E-01	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-6.4E-07					0									pCi/L
Nickel-63	-2.0E+00					0									pCi/L
Plutonium-241	-1.9E-02					0									pCi/L
Plutonium-242	-9.3E-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 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 02/20/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	213.5	214.0	ft msl
pH	5.7	5.3	pH
Sp. conductance	60	50	µS/cm
Water temperature	19.7	20	°C
Alkalinity as CaCO ₃	8	8	mg/L
Turbidity	0.8	0.8	NTU
Volume purged	2.9	2.9	well volumes
Sampling code			
Synchronous water level	214.0 (03/27/95)	213.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	12	1	V			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	1.8	1	J			0	GE	2.7	1	JVV			0	GE	µg/L
Mercury, total recoverable	0.088	1	JVV			0	GE								µg/L
Selenium, total recoverable	1.5	1	JVV			0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.3	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	1.4	1	J			0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	2.0	1	JVV			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	7.9	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	8.4	1	J			0	GE								µg/L
Nitrate as nitrogen	1,800	1				0	GE	1,700	1				0	GE	µg/L
pH	5.8	1	J1	■	●	0	GE	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB114C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1				0	GP	5.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1				0	GP	2.1E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	9.5E-01	1	UI			0	GP								pCi/L
Americium-241	3.1E-02	1	UI			0	GP								pCi/L
Cesium-137	2.0E+00	1	UI			0	GP								pCi/L
Cobalt-60	5.0E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	1.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	8.8E-03	1	UI			0	GP								pCi/L
Iodine-129	-4.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	4.8E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	-5.6E-03	1	UI			0	GP								pCi/L
Radium-226	2.0E-01	1	UI			0	GP								pCi/L
Radium-228	-4.3E-01	1	UJI			0	GP								pCi/L
Strontium-89	-4.6E-01	1	UI			0	GP								pCi/L
Strontium-90	-1.7E-01	1	UI			0	GP								pCi/L
Technetium-99	-2.2E+01	1	UI			0	GP								pCi/L
Thorium-228	-8.8E-02	1	UI			0	GP								pCi/L
Thorium-230	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	3.8E+00	1				0	GP	2.3E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	6.7E-02	1	UI			0	GP								pCi/L
Uranium-235	-9.7E-05	1	UI			0	GP								pCi/L
Uranium-238	4.5E-03	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	5.3E-05					0									pCi/L
Nickel-63	5.0E-01					0									pCi/L
Plutonium-241	-2.2E-02					0									pCi/L
Plutonium-242	-1.1E-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 FSB114D

<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>
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 02/20/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	217.7	218.3	ft msl
pH	5.0	4.4	pH
Sp. conductance	44	39	µS/cm
Water temperature	19.3	19.6	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.2	1.3	NTU
Volume purged	13	4.8	well volumes
Sampling code			
Synchronous water level	218.3 (03/27/95)	217.5 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	8.6	1	V			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	2.4	1	J			0	GE	3.7	1	JVV			0	GE	µg/L
Mercury, total recoverable	0.17	1	JVV			0	GE								µg/L
Selenium, total recoverable	1.5	1	JVV			0	GE								µg/L
Silver, total recoverable	<0.65	1	V			0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1	J1			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	0.88	1	J			0	GE								µg/L
Copper, total recoverable	6.8	1				0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	<10	1	V			0	GE								µg/L
Phenols	<10	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	0.45	1	J			0	GE								µg/L
Zinc, total recoverable	6.0	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	32	1				1	GE								µg/L
Nitrate as nitrogen	1,600	1				0	GE	1,200	1				0	GE	µg/L
pH	5.1	1	J1	■	●	0	GE	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB114D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E+00	1				0	GP	2.8E+00	1				0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	1.4E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	7.0E+00	1	UI			0	GP								pCi/L
Americium-241	3.7E-02	1	UI			0	GP								pCi/L
Cesium-137	-8.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	-3.3E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	0.0E+00	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	9.6E-01	1	UI			0	GP								pCi/L
Plutonium-238	1.7E-03	1	UJI			0	GP								pCi/L
Plutonium-239/240	4.2E-02	1	UI			0	GP								pCi/L
Radium-226	3.2E-01	1	UI			0	GP								pCi/L
Radium-228	-6.9E-02	1	UJI			0	GP								pCi/L
Strontium-89	6.8E-01	1				0	GP								pCi/L
Strontium-90	4.8E-01	1				0	GP								pCi/L
Technetium-99	-3.0E+01	1	UI			0	GP								pCi/L
Thorium-228	7.5E-02	1	UI			0	GP								pCi/L
Thorium-230	8.7E-02	1	UI			0	GP								pCi/L
Thorium-232	2.5E-02	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	7.1E+00	1				0	GP	2.3E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	-3.2E-02	1	UI			0	GP								pCi/L
Uranium-235	-3.9E-02	1	UI			0	GP								pCi/L
Uranium-238	-1.0E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	0.0E+00					0									pCi/L
Nickel-63	-3.3E-01					0									pCi/L
Plutonium-241	1.7E-01					0									pCi/L
Plutonium-242	8.4E-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 FSB115C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/17/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	184.9	184.9	ft msl
pH	5.4	4.7	pH
Sp. conductance	24	29	µS/cm
Water temperature	17.8	18.4	°C
Alkalinity as CaCO ₃	3	3	mg/L
Turbidity	7.3	4	NTU
Volume purged	0.94	0.87	well volumes
Sampling code	X	X	
Synchronous water level	184.9 (03/27/95)	184.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	3.9	1	JV			0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	3.8	1	J			0	GE	5.3	1				0	GE	µg/L
Mercury, total recoverable	<0.33	1	V			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	5.7	1	J			0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	<6.7	1	V			0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	13	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	65	1		■		2	GE								µg/L
Nitrate as nitrogen	510	1				0	GE	520	1				0	GE	µg/L
pH	6.1	1	J	■	●	0	GE	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB115C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.5E-01	1	UI			0	GP	7.1E-01	1	UJI			0	GP	pCi/L
Nonvolatile beta	6.9E-01	1	UI			0	GP	4.0E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.0E+00	1	UI			0	GP								pCi/L
Americium-241	6.7E-02	1	UI			0	GP								pCi/L
Cesium-137	1.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.3E+00	1	UI			0	GP								pCi/L
Curium-242	2.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-8.8E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	4.5E-01	1	UI			0	GP								pCi/L
Plutonium-238	1.1E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	9.0E-02	1	UJI			0	GP								pCi/L
Radium-228	-5.7E-01	1	UJI			0	GP								pCi/L
Strontium-89	-2.6E-01	1	UI			0	GP								pCi/L
Strontium-90	7.8E-03	1	UI			0	GP								pCi/L
Technetium-99	-1.4E+01	1	UI			0	GP								pCi/L
Thorium-228	2.7E-02	1	UI			0	GP								pCi/L
Thorium-230	0.0E+00	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	9.5E+00	1				0	GP	9.9E+00	1				0	GP	pCi/mL
Uranium-233/234	9.1E-02	1	UI			0	GP								pCi/L
Uranium-235	1.7E-02	1	UI			0	GP								pCi/L
Uranium-238	7.4E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.6E-05					0									pCi/L
Nickel-63	2.3E+00					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 FSB115D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/17/95 05/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	192.5	192.4	ft msl
pH	4.9		pH
Sp. conductance	17		µS/cm
Water temperature	18		°C
Alkalinity as CaCO ₃	1		mg/L
Turbidity	69.5		NTU
Volume purged	0.46		well volumes
Sampling code	X	W	
Synchronous water level	193.0 (03/27/95)	191.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	8.6	1	V			0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE								µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	38	1				1	GE								µg/L
Mercury, total recoverable	<0.33	1	V			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	110	1		■		0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	<6.7	1	V			0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	120	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	110	1		■		2	GE								µg/L
Nitrate as nitrogen	81	1	J			0	GE								µg/L
pH	5.3	1	J	■	●	0	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	24	1		■		2	GE								µg/L
Dichloromethane	<1.7	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 FSB115D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1				0	GP								pCi/L
Nonvolatile beta	1.1E+00	1	UI			0	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.8E+00	1	UI			0	GP								pCi/L
Americium-241	5.0E-02	1	UI			0	GP								pCi/L
Cesium-137	-2.7E-01	1	UI			0	GP								pCi/L
Cobalt-60	-1.5E+00	1	UI			0	GP								pCi/L
Curium-242	-2.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.9E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-7.0E-01	1	UI			0	GP								pCi/L
Plutonium-238	4.2E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	-9.7E-03	1	UI			0	GP								pCi/L
Radium-226	2.7E-01	1	UJI			0	GP								pCi/L
Radium-228	4.2E-01	1	UJI			0	GP								pCi/L
Strontium-89	4.5E-01	1				0	GP								pCi/L
Strontium-90	4.5E-01	1				0	GP								pCi/L
Technetium-99	-2.1E+01	1	UI			0	GP								pCi/L
Thorium-228	5.0E-02	1	UI			0	GP								pCi/L
Thorium-230	2.8E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.3E-02	1	UI			0	GP								pCi/L
Thorium-234	2.9E+01	1	UI			0	GP								pCi/L
Tritium	8.9E+00	1				0	GP								pCi/mL
Uranium-233/234	6.8E-02	1	UI			0	GP								pCi/L
Uranium-235	2.7E-02	1	UI			0	GP								pCi/L
Uranium-238	5.9E-02	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.7E-04					0									pCi/L
Nickel-63	-1.5E+00					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 FSB116C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/16/95 04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	189.8	190.1	ft msl
pH	4.9	4.5	pH
Sp. conductance	22	20	µS/cm
Water temperature	18.8	18.6	°C
Alkalinity as CaCO ₃	1	1	mg/L
Turbidity	1.2	0.5	NTU
Volume purged	3.0	2.7	well volumes
Sampling code			
Synchronous water level	190.1 (03/27/95)	189.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	4.6	1	J			0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.7	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	12	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	16	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	34	1				1	GE								µg/L
Nitrate as nitrogen	670	1				0	GE	760	1				0	GE	µg/L
pH	5.1	1	J1	■	●	0	GE	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB116C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.7E-01	1	UI			0	GP	2.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	-5.5E-01	1	UI			0	GP	3.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.8E+00	1	UI			0	GP								pCi/L
Americium-241	-1.9E-02	1	UI			0	GP								pCi/L
Cesium-137	2.7E+00	1	UI			0	GP								pCi/L
Cobalt-60	4.4E-01	1	UI			0	GP								pCi/L
Curium-242	2.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	4.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	5.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	-6.1E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	-6.1E-03	1	UI			0	GP								pCi/L
Radium-226	1.2E+00	1				0	GP								pCi/L
Radium-228	-4.4E-01	1	UJI			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	-2.2E+01	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.3E-01	1	UI			0	GP								pCi/L
Thorium-232	-9.0E-03	1	UI			0	GP								pCi/L
Thorium-234	7.6E+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	1.0E-02	1	UI			0	GP								pCi/L
Uranium-235	-4.9E-03	1	UI			0	GP								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.3E-04					0									pCi/L
Nickel-63	4.4E-01					0									pCi/L
Plutonium-241	-2.4E-02					0									pCi/L
Plutonium-242	-1.2E-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 FSB116D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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	02/17/95	04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	192.3	192.8	ft msl
pH	5.2	4.7	pH
Sp. conductance	54	28	μS/cm
Water temperature	16.4	17.6	°C
Alkalinity as CaCO ₃	2	2	mg/L
Turbidity	152	12.4	NTU
Volume purged	0.51	0.72	well volumes
Sampling code	X	X	
Synchronous water level	192.7 (03/27/95)	192.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								μg/L
Barium, total recoverable	5.7	1	V			0	GE	15	5	V			0	GE	μg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	μg/L
Chromium, total recoverable	<6.7	1				0	GE								μg/L
Lead, total recoverable	44	1				1	GE	36	1	V			1	GE	μg/L
Mercury, total recoverable	<0.33	1	V			0	GE								μg/L
Selenium, total recoverable	<3.3	1				0	GE								μg/L
Silver, total recoverable	<3.3	1	V			0	GE	73	5	V	■		1	GE	μg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								μg/L
Benzene	<1.7	1				0	GE								μg/L
Cobalt, total recoverable	<6.7	1				0	GE								μg/L
Copper, total recoverable	150	1		■		0	GE								μg/L
Cyanide	<8.3	1				0	GE								μg/L
Nickel, total recoverable	<6.7	1	V			0	GE	<10	1				0	GE	μg/L
Phenols	<8.3	1				0	GE								μg/L
Tetrachloroethylene	<1.7	1				0	GE								μg/L
Thallium, total recoverable	<3.3	1				0	GE								μg/L
Trichloroethylene	<1.7	1				0	GE								μg/L
Trichlorofluoromethane	<1.7	1				0	GE								μg/L
Vanadium, total recoverable	<13	1				0	GE								μg/L
Zinc, total recoverable	230	1		■		0	GE								μg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	160	1		■		2	GE								μg/L
Nitrate as nitrogen	60	1	J			0	GE	70	1	J			0	GE	μg/L
pH	5.5	1	J	■	●	0	GE	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								μg/L
Dichloromethane	<1.7	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 FSB116D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1				0	GP	9.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.8E+00	1				0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	8.5E+00	1	UI			0	GP								pCi/L
Americium-241	4.0E-02	1	UI			0	GP								pCi/L
Cesium-137	7.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	-9.6E-02	1	UI			0	GP								pCi/L
Curium-242	-6.8E-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	-5.6E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.3E-01	1	UJI			0	GP								pCi/L
Plutonium-239/240	1.9E-01	1	UI			0	GP								pCi/L
Radium-226	1.3E-01	1	UJI			0	GP								pCi/L
Radium-228	7.0E-01	1	UJI			0	GP								pCi/L
Strontium-89	-5.0E-01	1	UI			0	GP								pCi/L
Strontium-90	2.3E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.9E+01	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.8E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.1E-02	1	UI			0	GP								pCi/L
Thorium-234	9.8E+01	1	UI			0	GP								pCi/L
Tritium	6.7E+00	1				0	GP	1.3E+01	1				1	GP	pCi/mL
Uranium-233/234	1.6E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.5E-01	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.2E-04					0									pCi/L
Nickel-63	-9.6E-02					0									pCi/L
Plutonium-241	7.5E-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 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 02/21/95 05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	206.3	205.5	ft msl
pH	3.7		pH
Sp. conductance	340		µS/cm
Water temperature	18.2		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	0.9		NTU
Volume purged	13		well volumes
Sampling code		W	
Synchronous water level	206.2 (03/27/95)	205.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	96	1	V			0	GE								µg/L
Cadmium, total recoverable	1.8	1	J			0	GE								µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE								µg/L
Mercury, total recoverable	0.38	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	7.5	1				0	GE								µg/L
Copper, total recoverable	21	1				0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	7.0	1	J			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	14	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	9,500	1		■		2	GE								µg/L
Nitrate as nitrogen	31,000	20		■		2	GE								µg/L
pH	3.7	1	J1	■	●	1	GE								pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB117D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.2E+02	1	J	■		2	GP								pCi/L
Nonvolatile beta	3.5E+02	1		■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	0.0E+00	1	UI			0	GP								pCi/L
Americium-241	5.6E+00	1				1	GP								pCi/L
Cesium-137	7.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	7.7E-01	1	UI			0	GP								pCi/L
Curium-242	5.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.4E+00	1				0	GP								pCi/L
Curium-245/246	2.4E-01	1	UI			0	GP								pCi/L
Iodine-129	4.2E+01	1		■		2	GP								pCi/L
Plutonium-238	3.7E+00	1				1	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	8.7E+00	1				0	GP								pCi/L
Radium-228	9.0E+00	1	J			0	GP								pCi/L
Strontium-89	1.6E+01	1				1	GP								pCi/L
Strontium-90	5.9E+01	1		■		2	GP								pCi/L
Technetium-99	2.4E+01	1				0	GP								pCi/L
Thorium-228	1.3E-01	1	UI			0	GP								pCi/L
Thorium-230	9.4E-02	1	UI			0	GP								pCi/L
Thorium-232	-9.5E-03	1	UI			0	GP								pCi/L
Thorium-234	1.3E+02	1	UI			0	GP								pCi/L
Tritium	9.3E+02	1		■		2	GP								pCi/mL
Uranium-233/234	3.5E+02	1		■		2	GP								pCi/L
Uranium-235	2.0E+01	1		■		2	GP								pCi/L
Uranium-238	3.8E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.2E-03					0									pCi/L
Nickel-63	7.7E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 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 02/16/95 04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	211.9	213.2	ft msl
pH	5.0	4.9	pH
Sp. conductance	32	29	µS/cm
Water temperature	18.8	19.2	°C
Alkalinity as CaCO ₃	0	1	mg/L
Turbidity	0.6	0.4	NTU
Volume purged	8.6	5.1	well volumes
Sampling code			
Synchronous water level	213.3 (03/27/95)	212.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	10	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	2.8	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	21	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	1.3	1	J			0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	1.4	1	J			0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	31	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	28	1	J			1	GE								µg/L
Nitrate as nitrogen	950	1				0	GE	920	1				0	GE	µg/L
pH	5.1	1	J1			0	GE	5.9	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB118D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+00	1				0	GP	2.2E+00	1				0	GP	pCi/L
Nonvolatile beta	7.0E-01	1	UI			0	GP	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.6E+00	1	UI			0	GP								pCi/L
Americium-241	8.7E-02	1	UI			0	GP								pCi/L
Cesium-137	1.9E+00	1	UI			0	GP								pCi/L
Cobalt-60	-2.7E-02	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	2.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.1E+00	1	UI			0	GP								pCi/L
Plutonium-238	-2.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	8.4E-02	1	UI			0	GP								pCi/L
Radium-226	1.1E+00	1				0	GP								pCi/L
Radium-228	-1.1E+00	1	UJI			0	GP								pCi/L
Strontium-89	-5.4E-01	1	UI			0	GP								pCi/L
Strontium-90	-9.3E-02	1	UI			0	GP								pCi/L
Technetium-99	-1.3E+01	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	5.5E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	7.6E+01	1	UI			0	GP								pCi/L
Tritium	1.2E+01	1				1	GP	4.8E+02	1		■		2	GP	pCi/mL
Uranium-233/234	5.4E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	6.3E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.0E-05					0									pCi/L
Nickel-63	-2.7E-02					0									pCi/L
Plutonium-241	3.3E-01					0									pCi/L
Plutonium-242	1.7E-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 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 02/21/95 05/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	209.2	209.3	ft msl
pH	3.4		pH
Sp. conductance	1,154		µS/cm
Water temperature	17.2		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	178		NTU
Volume purged	1.0		well volumes
Sampling code	X	W	
Synchronous water level	209.9 (03/27/95)	208.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	370	1	V			0	GE								µg/L
Cadmium, total recoverable	5.6	1				2	GE								µg/L
Chromium, total recoverable	2.5	1	J			0	GE								µg/L
Lead, total recoverable	9.2	1				0	GE								µg/L
Mercury, total recoverable	0.48	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	4.1	1	J1			1	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	50	1				2	GE								µg/L
Copper, total recoverable	48	1				0	GE								µg/L
Cyanide	<20	1	Y			0	GE								µg/L
Nickel, total recoverable	30	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	0.73	1	J			0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	1.4	1	J			0	GE								µg/L
Zinc, total recoverable	110	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	54,000	3	V			2	GE								µg/L
Nitrate as nitrogen	130,000	80				2	GE								µg/L
pH	3.4	1	J1			1	GE								pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB119D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+03	1	J	■		2	GP								pCi/L
Nonvolatile beta	1.3E+03	1	J	■		2	GP								pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.3E+01	1				0	GP								pCi/L
Americium-241	1.6E+01	1		■		2	GP								pCi/L
Cesium-137	-4.9E-01	1	UI			0	GP								pCi/L
Cobalt-60	0.0E+00	1	UI			0	GP								pCi/L
Curium-242	-1.3E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.7E+00	1				0	GP								pCi/L
Curium-245/246	1.3E+00	1				0	GP								pCi/L
Iodine-129	1.5E+02	1		■		2	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.0E-02	1	UI			0	GP								pCi/L
Radium-226	3.2E+01	1		■		2	GP								pCi/L
Radium-228	3.3E+01	1	J	■		2	GP								pCi/L
Strontium-89	-1.6E+02	1	UJI			0	GP								pCi/L
Strontium-90	4.6E+02	1	J	■		2	GP								pCi/L
Technetium-99	6.6E+01	1				0	GP								pCi/L
Thorium-228	1.0E+00	1				0	GP								pCi/L
Thorium-230	1.0E+00	1				0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	4.5E+02	1		■		2	GP								pCi/L
Tritium	6.3E+03	1		■		2	GP								pCi/mL
Uranium-233/234	8.8E+02	1		■		2	GP								pCi/L
Uranium-235	4.6E+01	1		■		2	GP								pCi/L
Uranium-238	9.4E+02	1		■		2	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.0E-03					0									pCi/L
Nickel-63	0.0E+00					0									pCi/L
Plutonium-241	-2.0E-01					0									pCi/L
Plutonium-242	-1.0E-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 FSB120A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/21/95 04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	148.8	148.8	ft msl
pH	10.5	10.6	pH
Sp. conductance	136	151	µS/cm
Water temperature	19.1	19.9	°C
Alkalinity as CaCO ₃	74	33	mg/L
Turbidity	1.5	1	NTU
Volume purged	3.4	3.1	well volumes
Sampling code			
Synchronous water level	148.7 (03/27/95)	148.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	3.8	1	J			0	GE								µg/L
Barium, total recoverable	24	1	V			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	<5.0	1				0	GE	1.6	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.20	1				0	GE								µg/L
Selenium, total recoverable	1.4	1	J			0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	3.7	1	J			1	GE								µg/L
Benzene	<1.7	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	<20	1				0	GE								µg/L
Nickel, total recoverable	<10	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	6.5	1	J			0	GE								µg/L
Zinc, total recoverable	<5.0	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	590	1		■		2	GE								µg/L
Nitrate as nitrogen	3,200	2				0	GE	2,800	2				0	GE	µg/L
pH	10	1	J1	■	●	1	GE	9.8	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB120A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1				0	GP	6.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.5E+00	1				0	GP	4.4E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	4.8E+00	1	UI			0	GP								pCi/L
Americium-241	1.7E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.6E+00	1	UI			0	GP								pCi/L
Cobalt-60	-6.1E-01	1	UI			0	GP								pCi/L
Curium-242	7.4E-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	4.4E-01	1	UI			0	GP								pCi/L
Plutonium-238	0.0E+00	1	UJI			0	GP								pCi/L
Plutonium-239/240	-3.0E-02	1	UI			0	GP								pCi/L
Radium-226	2.3E-01	1	UI			0	GP								pCi/L
Radium-228	2.5E-02	1	UJI			0	GP								pCi/L
Strontium-89	1.6E-01	1	UI			0	GP								pCi/L
Strontium-90	9.1E-02	1	UI			0	GP								pCi/L
Technetium-99	-1.5E+01	1	UI			0	GP								pCi/L
Thorium-228	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-230	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	4.3E+01	1	UI			0	GP								pCi/L
Tritium	6.5E+01	1		■		2	GP	2.3E+01	1		■		2	GP	pCi/mL
Uranium-233/234	1.8E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.1E-01	1	UJI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.2E-04					0									pCi/L
Nickel-63	-6.1E-01					0									pCi/L
Plutonium-241	-1.2E-01					0									pCi/L
Plutonium-242	-5.9E-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 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	02/21/95	04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	205.6	206.1	ft msl
pH	7.0	6.5	pH
Sp. conductance	306	326	µS/cm
Water temperature	19.4	19.3	°C
Alkalinity as CaCO ₃	20	7	mg/L
Turbidity	2.9	0.7	NTU
Volume purged	3.5	4.5	well volumes
Sampling code			
Synchronous water level	206.0 (03/27/95)	206.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<5.0	1				0	GE								µg/L
Barium, total recoverable	100	1	V			0	GE	82	5	V			0	GE	µg/L
Cadmium, total recoverable	0.79	1	J			0	GE	0.61	1	J			0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	1.8	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.20	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE	0.58	1	JVV			0	GE	µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<5.0	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	5.5	1				0	GE								µg/L
Copper, total recoverable	<4.0	1				0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	7.4	1	J			0	GE	5.4	1	J			0	GE	µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	12	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	180	1		■		2	GE								µg/L
Nitrate as nitrogen	34,000	20		■		2	GE	37,000	20		■		2	GE	µg/L
pH	6.7	1	J1	■	●	0	GE	6.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB120C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E+01	1	J	■		2	GP	1.5E+01	1				1	GP	pCi/L
Nonvolatile beta	5.0E+01	1				1	GP	4.4E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.7E+00	1	UI			0	GP								pCi/L
Americium-241	8.4E-02	1	UI			0	GP								pCi/L
Cesium-137	2.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	1.9E+00	1	UI			0	GP								pCi/L
Curium-242	-2.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.4E+01	1		■		2	GP								pCi/L
Plutonium-238	1.0E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	3.6E-02	1	UI			0	GP								pCi/L
Radium-226	5.1E-01	1	UI			0	GP								pCi/L
Radium-228	1.7E+00	1	J			0	GP								pCi/L
Strontium-89	-7.2E-01	1	UI			0	GP								pCi/L
Strontium-90	4.5E+00	1				1	GP								pCi/L
Technetium-99	4.6E+01	1				0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	2.1E-01	1	UI			0	GP								pCi/L
Thorium-232	-6.6E-03	1	UI			0	GP								pCi/L
Thorium-234	4.2E+00	1	UI			0	GP								pCi/L
Tritium	1.1E+03	1		■		2	GP	1.0E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.7E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	2.2E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-6.7E-05					0									pCi/L
Nickel-63	1.9E+00					0									pCi/L
Plutonium-241	1.5E-01					0									pCi/L
Plutonium-242	7.3E-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 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 02/22/95 04/05/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	208.5	209.4	ft msl
pH	6.1	6.9	pH
Sp. conductance	49	53	µS/cm
Water temperature	7	17.9	°C
Alkalinity as CaCO ₃	29	21	mg/L
Turbidity	20.8	35.3	NTU
Volume purged	0.89	0.83	well volumes
Sampling code	X	X	
Synchronous water level	209.2 (03/27/95)	209.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	33	1	V			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	6.5	1				0	GE	10	1				0	GE	µg/L
Mercury, total recoverable	<0.20	1	V			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	<0.65	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	1	Y			0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	23	1				0	GE								µg/L
Cyanide	<20	1	Y			0	GE								µg/L
Nickel, total recoverable	16	1				0	GE								µg/L
Phenols	<10	1	Y			0	GE								µg/L
Tetrachloroethylene	<1.7	1	Y			0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1	Y			0	GE								µg/L
Trichlorofluoromethane	<1.7	1	Y			0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	69	1		■		0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	32	1				1	GE								µg/L
Nitrate as nitrogen	36	1	JY			0	GE	270	1				0	GE	µg/L
pH	6.8	1	J1	■	●	0	GE	6.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1	Y			0	GE								µg/L
Dichloromethane	<1.7	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 FSB120D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1	J			0	GP	2.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.6E+00	1				0	GP	2.5E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	-7.6E-01	1	UI			0	GP								pCi/L
Americium-241	4.0E-02	1	UI			0	GP								pCi/L
Cesium-137	-8.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	-2.4E-01	1	UI			0	GP								pCi/L
Curium-242	-4.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.9E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	-3.5E-02	1	UI			0	GP								pCi/L
Plutonium-238	1.7E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	4.4E-02	1	UI			0	GP								pCi/L
Radium-226	1.9E-01	1	UI			0	GP								pCi/L
Radium-228	-8.5E-02	1	UJI			0	GP								pCi/L
Strontium-89	3.6E-01	1				0	GP								pCi/L
Strontium-90	-1.3E-01	1	UI			0	GP								pCi/L
Technetium-99	-3.4E+00	1	UI			0	GP								pCi/L
Thorium-228	-6.3E-02	1	UI			0	GP								pCi/L
Thorium-230	2.7E-01	1	UI			0	GP								pCi/L
Thorium-232	2.8E-02	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	1.1E+01	1				1	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234	1.2E-02	1	UI			0	GP								pCi/L
Uranium-235	-6.7E-03	1	UI			0	GP								pCi/L
Uranium-238	8.6E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.6E-05					0									pCi/L
Nickel-63	-2.4E-01					0									pCi/L
Plutonium-241	1.7E-01					0									pCi/L
Plutonium-242	8.7E-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 FSB121C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/16/95 04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	203.6	204.5	ft msl
pH	5.8	6.5	pH
Sp. conductance	45	46	µS/cm
Water temperature	18.7	19	°C
Alkalinity as CaCO ₃	6	6	mg/L
Turbidity	0.4	0.5	NTU
Volume purged	3.5	3.7	well volumes
Sampling code			
Synchronous water level	204.4 (03/27/95)	204.6 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	29	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	0.78	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1	V			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1	J1		●	0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	4.6	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								µg/L
Nitrate as nitrogen	1,400	1				0	GE	1,500	1				0	GE	µg/L
pH	5.8	1	J1	■	●	0	GE	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB121C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+00	1				0	GP	1.6E+00	1				0	GP	pCi/L
Nonvolatile beta	4.1E+00	1				0	GP	3.5E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.9E+00	1	UI			0	GP								pCi/L
Americium-241	1.6E-01	1	UI			0	GP								pCi/L
Cesium-137	-1.1E+00	1	UI			0	GP								pCi/L
Cobalt-60	-6.2E-01	1	UI			0	GP								pCi/L
Curium-242	6.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.6E-04	1	UI			0	GP								pCi/L
Curium-245/246	6.6E-02	1	UI			0	GP								pCi/L
Iodine-129	1.7E+00	1	UI			0	GP								pCi/L
Plutonium-238	5.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-3.5E-02	1	UI			0	GP								pCi/L
Radium-226	5.5E-01	1	UI			0	GP								pCi/L
Radium-228	-7.1E-01	1	UJI			0	GP								pCi/L
Strontium-89	-3.2E-01	1	UI			0	GP								pCi/L
Strontium-90	-4.8E-02	1	UI			0	GP								pCi/L
Technetium-99	-8.0E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.6E-01	1	UI			0	GP								pCi/L
Thorium-232	2.6E-02	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	GP								pCi/L
Tritium	1.3E+02	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.8E-02	1	UI			0	GP								pCi/L
Uranium-235	2.8E-02	1	UI			0	GP								pCi/L
Uranium-238	4.3E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-06					0									pCi/L
Nickel-63	-6.2E-01					0									pCi/L
Plutonium-241	-1.4E-01					0									pCi/L
Plutonium-242	-6.9E-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 FSB121DR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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	02/17/95	04/05/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	206.1	207.1	ft msl
pH	4.2	5.8	pH
Sp. conductance	100	65	µS/cm
Water temperature	18.6	17.5	°C
Alkalinity as CaCO ₃	0	4	mg/L
Turbidity	4.6	21.5	NTU
Volume purged	0.82	0.96	well volumes
Sampling code	X	X	
Synchronous water level	207.0 (03/27/95)	207.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE								µg/L
Barium, total recoverable	51	1	V			0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	0.96	1	J			0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	88	1		■		2	GE	60	1		■		2	GE	µg/L
Mercury, total recoverable	<0.33	1	V			0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1	V			0	GE								µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	6.1	1	J			0	GE								µg/L
Copper, total recoverable	7.3	1				0	GE								µg/L
Cyanide	<8.3	1	V			0	GE								µg/L
Nickel, total recoverable	5.2	1	JVV			0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	50	1		■		0	GE								µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,200	1		■		2	GE								µg/L
Nitrate as nitrogen	3,300	4				0	GE	9,700	10				1	GE	µg/L
pH	4.7	1	J	■	●	0	GE	4.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<16	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB121DR (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.0E+01	1		■		2	GP	2.6E+01	1	J	■		2	GP	pCi/L
Nonvolatile beta	8.6E+01	1		■		2	GP	9.2E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.1E+01	1	UI			0	GP								pCi/L
Americium-241	1.1E-01	1	UI			0	GP								pCi/L
Cesium-137	-1.6E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.3E+00	1	UI			0	GP								pCi/L
Curium-242	1.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.8E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.8E+00	1		■		2	GP								pCi/L
Plutonium-238	-1.9E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	-9.3E-03	1	UI			0	GP								pCi/L
Radium-226	3.3E-01	1	UJI			0	GP								pCi/L
Radium-228	2.8E+00	1	J			0	GP								pCi/L
Strontium-89	1.8E+00	1				0	GP								pCi/L
Strontium-90	2.5E+01	1		■		2	GP								pCi/L
Technetium-99	-1.4E+01	1	UI			0	GP								pCi/L
Thorium-228	3.3E-01	1	UI			0	GP								pCi/L
Thorium-230	1.5E-01	1	UI			0	GP								pCi/L
Thorium-232	-6.0E-03	1	UI			0	GP								pCi/L
Thorium-234	1.4E+01	1	UI			0	GP								pCi/L
Tritium	9.8E+01	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.6E+00	1				0	GP								pCi/L
Uranium-235	1.0E-01	1	UI			0	GP								pCi/L
Uranium-238	3.0E+00	1	J			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	5.3E-04					0									pCi/L
Nickel-63	2.3E+00					0									pCi/L
Plutonium-241	-3.7E-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 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 02/21/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	200.9	200.4	ft msl
pH	4.5	4.8	pH
Sp. conductance	539	507	µS/cm
Water temperature	18.3	18.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.8	2.8	NTU
Volume purged	7.8	4.7	well volumes
Sampling code			
Synchronous water level	200.6 (03/27/95)	200.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Barium, total recoverable	150	1	V			0	GE								µg/L
Cadmium, total recoverable	0.90	1	J			0	GE	0.82	1	J			0	GE	µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	2.9	1	J			0	GE	µg/L
Mercury, total recoverable	0.21	1	VV			0	GE								µg/L
Selenium, total recoverable	<5.0	1				0	GE								µg/L
Silver, total recoverable	0.57	1	J			0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	14	1				0	GE								µg/L
Copper, total recoverable	1.1	1	J			0	GE								µg/L
Cyanide	<20	1				0	GE								µg/L
Nickel, total recoverable	16	1				0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<5.0	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	69	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	660	1				2	GE								µg/L
Nitrate as nitrogen	60,000	40				2	GE	67,000	40				2	GE	µg/L
pH	5.0	1	J1			0	GE	5.1	1	J1			0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	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 FSB122C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E+01	1	J	■		2	GP	1.8E+01	1		■		2	GP	pCi/L
Nonvolatile beta	6.5E+01	1		■		2	GP	9.2E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	1.2E+01	1	UI			0	GP								pCi/L
Americium-241	-1.7E-03	1	UI			0	GP								pCi/L
Cesium-137	1.3E+00	1	UI			0	GP								pCi/L
Cobalt-60	3.7E-01	1	UI			0	GP								pCi/L
Curium-242	-2.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	-3.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	-5.0E-03	1	UI			0	GP								pCi/L
Iodine-129	2.2E+01	1		■		2	GP								pCi/L
Plutonium-238	1.1E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.3E-01	1	UI			0	GP								pCi/L
Radium-226	5.6E+00	1				0	GP								pCi/L
Radium-228	8.6E-01	1	J			0	GP								pCi/L
Strontium-89	1.5E+00	1				0	GP								pCi/L
Strontium-90	-7.9E-02	1	UI			0	GP								pCi/L
Technetium-99	1.1E+02	1				0	GP								pCi/L
Thorium-228	-1.1E-02	1	UI			0	GP								pCi/L
Thorium-230	2.6E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.8E+01	1	UI			0	GP								pCi/L
Tritium	1.9E+03	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.9E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	3.8E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-9.1E-05					0									pCi/L
Nickel-63	3.7E-01					0									pCi/L
Plutonium-241	5.2E-01					0									pCi/L
Plutonium-242	2.6E-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 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 02/21/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	206.5	204.1	ft msl
pH	5.0	5.2	pH
Sp. conductance	84	103	µS/cm
Water temperature	17.3	17	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.7	2.2	NTU
Volume purged	12	9.0	well volumes
Sampling code			
Synchronous water level	204.5 (03/27/95)	203.8 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	1.4	1	J			0	WA								µg/L
Barium, total recoverable	31	1				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	2.8	1	J3			0	WA	3.6	1	J			0	GE	µg/L
Mercury, total recoverable	<0.20	1	V			0	GE								µg/L
Selenium, total recoverable	2.7	1	J			0	WA								µg/L
Silver, total recoverable	0.23	1	J			0	WA								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<5.0	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	1.8	1	J			0	WA								µg/L
Copper, total recoverable	4.9	1	JVV			0	WA								µg/L
Cyanide	<18	1				0	WA								µg/L
Nickel, total recoverable	2.0	1	J			0	GE								µg/L
Phenols	<10	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	4.3	1	J			2	WA								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<10	1				0	GE								µg/L
Zinc, total recoverable	12	1	VV			0	WA								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	1	V	■		2	WA								µg/L
Nitrate as nitrogen	7,900	25				1	WA	10,000	20				2	GE	µg/L
pH	5.4	1	J	■	●	0	WA	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<11	1				0	WA								µg/L
Dichloromethane	<1.7	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 FSB122D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+00	1				0	TM	1.8E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.0E+01	1				0	TM	1.1E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	2.3E+00	1	UI			0	TM								pCi/L
Americium-241	2.3E-01	1	V			0	TM								pCi/L
Cesium-137	-5.4E-01	1	UI			0	TM								pCi/L
Cobalt-60	2.2E-01	1	UI			0	TM								pCi/L
Curium-242	-1.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	-4.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	-5.3E-03	1	UI			0	GP								pCi/L
Iodine-129	8.8E-01	1	UI			0	GP								pCi/L
Plutonium-238	7.0E-02	1	UI			0	TM								pCi/L
Plutonium-239/240	-4.7E-03	1	UI			0	GP								pCi/L
Radium-226	1.1E+00	1				0	GP								pCi/L
Radium-228	1.7E+00	1				0	TM								pCi/L
Strontium-89	0.0E+00	1	UI			0	TM								pCi/L
Strontium-90	0.0E+00	1	UI			0	TM								pCi/L
Technetium-99	2.1E+01	1				0	TM								pCi/L
Thorium-228	-1.0E-02	1	UI			0	TM								pCi/L
Thorium-230	2.0E-02	1	UI			0	TM								pCi/L
Thorium-232	1.0E-02	1	UI			0	TM								pCi/L
Thorium-234	8.7E+01	1	J1			0	TM								pCi/L
Tritium	3.5E+02	1		■		2	TM	3.4E+02	1			■	2	GP	pCi/mL
Uranium-233/234	1.0E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	5.0E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.2E-04					0									pCi/L
Nickel-63	2.2E-01					0									pCi/L
Plutonium-241	-1.9E-02					0									pCi/L
Plutonium-242	-9.5E-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 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 02/16/95 04/12/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	210.4	211.0	ft msl
pH	5.8	5.0	pH
Sp. conductance	72	61	µS/cm
Water temperature	19.1	18.8	°C
Alkalinity as CaCO ₃	10	7	mg/L
Turbidity	0.4	0.2	NTU
Volume purged	3.5	3.9	well volumes
Sampling code			
Synchronous water level	211.1 (03/27/95)	210.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	17	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	8.6	1				0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	2.8	1	J			0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	3.6	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<33	1				0	GE								µg/L
Nitrate as nitrogen	2,900	2				0	GE	3,200	5				0	WA	µg/L
pH	5.9	1	J1	■	●	0	GE	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<16	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB123C (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E-02	1	UI			0	GP	7.7E-01	1				0	GP	pCi/L
Nonvolatile beta	8.4E-01	1	UI			0	GP	-1.0E-01	1	UI			0	TM	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.2E+00	1	UI			0	GP								pCi/L
Americium-241	8.7E-02	1	UI			0	GP								pCi/L
Cesium-137	-1.9E+00	1	UI			0	GP								pCi/L
Cobalt-60	6.1E-01	1	UI			0	GP								pCi/L
Curium-242	2.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.9E-01	1	UJI			0	GP								pCi/L
Plutonium-239/240	1.1E-01	1	UI			0	GP								pCi/L
Radium-226	1.2E-01	1	UI			0	GP								pCi/L
Radium-228	1.8E-01	1	UJI			0	GP								pCi/L
Strontium-89	-6.3E-01	1	UI			0	GP								pCi/L
Strontium-90	-3.9E-01	1	UI			0	GP								pCi/L
Technetium-99	-2.6E+01	1	UI			0	GP								pCi/L
Thorium-228	1.0E-01	1	UI			0	GP								pCi/L
Thorium-230	6.9E-02	1	UI			0	GP								pCi/L
Thorium-232	-2.6E-02	1	UI			0	GP								pCi/L
Thorium-234	7.7E+01	1	UI			0	GP								pCi/L
Tritium	2.3E+00	1				0	GP	2.9E+00	1				0	TM	pCi/mL
Uranium-233/234	2.2E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-4.0E-05					0									pCi/L
Nickel-63	6.1E-01					0									pCi/L
Plutonium-241	4.3E-01					0									pCi/L
Plutonium-242	2.1E-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 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 02/16/95 04/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	213.0	213.3	ft msl
pH	4.8	4.5	pH
Sp. conductance	42	39	µS/cm
Water temperature	18.9	18.5	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	0.3	0.3	NTU
Volume purged	8.0	5.2	well volumes
Sampling code			
Synchronous water level	213.5 (03/27/95)	212.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Barium, total recoverable	9.5	1				0	GE								µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE								µg/L
Lead, total recoverable	<5.0	1				0	GE	2.2	1	JVV			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable	<3.3	1				0	GE								µg/L
Silver, total recoverable	<3.3	1				0	GE								µg/L

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<3.3	1				0	GE								µg/L
Benzene	<1.7	1				0	GE								µg/L
Cobalt, total recoverable	<6.7	1				0	GE								µg/L
Copper, total recoverable	<6.7	1				0	GE								µg/L
Cyanide	<8.3	1				0	GE								µg/L
Nickel, total recoverable	<6.7	1				0	GE								µg/L
Phenols	<8.3	1				0	GE								µg/L
Tetrachloroethylene	<1.7	1				0	GE								µg/L
Thallium, total recoverable	<3.3	1				0	GE								µg/L
Trichloroethylene	<1.7	1				0	GE								µg/L
Trichlorofluoromethane	<1.7	1				0	GE								µg/L
Vanadium, total recoverable	<13	1				0	GE								µg/L
Zinc, total recoverable	3.6	1				0	GE								µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	43	1				1	GE								µg/L
Nitrate as nitrogen	1,900	1				0	GE	1,900	1				0	GE	µg/L
pH	4.9	1	J1	■	●	0	GE	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<17	1				0	GE								µg/L
Dichloromethane	<1.7	1	V			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 FSB123D (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1				0	GP	2.1E+00	1				0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	1.1E+00	1	UJI			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	3.2E+00	1	UI			0	GP								pCi/L
Americium-241	3.3E-02	1	UI			0	GP								pCi/L
Cesium-137	-8.3E-02	1	UI			0	GP								pCi/L
Cobalt-60	-3.4E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-2.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.6E+00	1	UI			0	GP								pCi/L
Plutonium-238	1.8E-02	1	UJI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	2.0E-01	1	UJI			0	GP								pCi/L
Radium-228	-5.0E-01	1	UJI			0	GP								pCi/L
Strontium-89	-7.7E-01	1	UI			0	GP								pCi/L
Strontium-90	-3.0E-01	1	UI			0	GP								pCi/L
Technetium-99	-2.1E+01	1	UI			0	GP								pCi/L
Thorium-228	-1.3E-03	1	UI			0	GP								pCi/L
Thorium-230	7.5E-02	1	UI			0	GP								pCi/L
Thorium-232	-6.1E-02	1	UI			0	GP								pCi/L
Thorium-234	1.3E+02	1	UI			0	GP								pCi/L
Tritium	7.9E+00	1				0	GP	8.1E+00	1				0	GP	pCi/mL
Uranium-233/234	4.4E-02	1	UI			0	GP								pCi/L
Uranium-235	-9.4E-03	1	UI			0	GP								pCi/L
Uranium-238	5.4E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.9E-05					0									pCi/L
Nickel-63	-3.4E-01					0									pCi/L
Plutonium-241	0.0E+00					0									pCi/L
Plutonium-242	0.0E+00					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 FSL 1D

<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>
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	02/22/95	04/13/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	223.6	224.1	ft msl
pH	5.3	4.3	pH
Sp. conductance	53	61	µS/cm
Water temperature	16.5	20.5	°C
Alkalinity as CaCO ₃	2	1	mg/L
Turbidity	14.2	10.3	NTU
Volume purged	0.81	0.39	well volumes
Sampling code	X	X	
Synchronous water level	224.0 (03/27/95)	224.3 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<2.0	1				0	GE	µg/L
Chromium, total recoverable								39	1				0	GE	µg/L
Lead, total recoverable	18	1				0	GE	18	1				0	GE	µg/L
Mercury, total recoverable	0.066	1	JVV			0	GE	0.064	1	J			0	GE	µg/L
Selenium, total recoverable								<5.0	1				0	GE	µg/L
Silver, total recoverable															

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								32	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	8.2	1		■		2	GE	6.5	1		■		2	GE	µg/L
Trichlorofluoromethane								32	1		■		2	GE	µg/L
Vanadium, total recoverable								2.5	1	J			0	GE	µg/L
Zinc, total recoverable								28	1		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	480	1		■		2	GE								µg/L
Nitrate as nitrogen	370,000	320		■		2	GE	4,500	4				0	GE	µg/L
pH								5.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	4.3E+00	1				0	GP	3.4E+00	1				0	GP	pCi/L
Nonvolatile beta	4.0E+00	1				0	GP	2.4E+00	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	5.3E+01	1		■		2	GP	5.7E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 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 02/08/95 04/13/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	221.4	224.8	ft msl
pH	5.7	5.5	pH
Sp. conductance	86	83	µS/cm
Water temperature	8	18.6	°C
Alkalinity as CaCO ₃	12	20	mg/L
Turbidity	14.2	9.1	NTU
Volume purged	0.96	0.76	well volumes
Sampling code	X	X	
Synchronous water level	224.7 (03/27/95)	224.9 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<2.0	1				0	GE	µg/L
Chromium, total recoverable								15	1				0	GE	µg/L
Lead, total recoverable	160	2		■		2	GE	920	20		■		2	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE	<0.20	1				0	GE	µg/L
Selenium, total recoverable								<5.0	1				0	GE	µg/L
Silver, total recoverable															

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								13	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Trichlorofluoromethane								<1.7	1				0	GE	µg/L
Vanadium, total recoverable								5.3	1	J			0	GE	µg/L
Zinc, total recoverable								57	1		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	300	1		■		2	GE								µg/L
Nitrate as nitrogen	410	1				0	GE	470	1	J			0	GE	µg/L
pH								6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	5.6E-01	1	UI			0	GP	8.2E-01	1				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>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	1.4E+01	1				1	GP	1.4E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 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 02/08/95 04/13/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	221.9	222.0	ft msl
pH	7.5	7.4	pH
Sp. conductance	347	365	µS/cm
Water temperature	12.4	21.5	°C
Alkalinity as CaCO ₃	35	190	mg/L
Turbidity	202	12.3	NTU
Volume purged	0.76	0.76	well volumes
Sampling code	X	X	
Synchronous water level	222.1 (03/27/95)	222.2 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<2.0	1				0	GE	µg/L
Chromium, total recoverable								24	1				0	GE	µg/L
Lead, total recoverable	<5.0	1				0	GE	7.5	1				0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE	<0.20	1				0	GE	µg/L
Selenium, total recoverable								<5.0	1				0	GE	µg/L
Silver, total recoverable															

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								17	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	<1.7	1				0	GE	1.4	1	J			0	GE	µg/L
Trichlorofluoromethane								12	1		■		2	GE	µg/L
Vanadium, total recoverable								10	1				0	GE	µg/L
Zinc, total recoverable								5.7	1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	180	1		■		2	GE								µg/L
Nitrate as nitrogen	260,000	250		■		2	GE	930	1	J			0	GE	µg/L
pH								7.7	1	J1		●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	8.0E+00	1				1	GP	5.9E+00	1				0	GP	pCi/L
Nonvolatile beta	1.4E+01	1				0	GP	1.3E+01	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.8E+01	1		■		2	GP	4.7E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 4D

<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>
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 02/08/95 04/13/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	216.3	217.0	ft msl
pH	7.5	5.3	pH
Sp. conductance	51	60	µS/cm
Water temperature	12.4	21.5	°C
Alkalinity as CaCO ₃	22	8	mg/L
Turbidity	10	7	NTU
Volume purged	0.50	0.47	well volumes
Sampling code	X	X	
Synchronous water level	216.8 (03/27/95)	217.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<2.0	1				0	GE	µg/L
Chromium, total recoverable								17	1				0	GE	µg/L
Lead, total recoverable	32	1				1	GE	13	1				0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE	<0.20	1				0	GE	µg/L
Selenium, total recoverable								<5.0	1				0	GE	µg/L
Silver, total recoverable															

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								13	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Trichlorofluoromethane								3.8	1				0	GE	µg/L
Vanadium, total recoverable								<10	1				0	GE	µg/L
Zinc, total recoverable								6.1	1				0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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		■		2	GE								µg/L
Nitrate as nitrogen	1,300	2				0	GE	1,300	1	J			0	GE	µg/L
pH								5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	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 4D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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				0	GP	2.1E+00	1				0	GP	pCi/L
Nonvolatile beta	4.5E+00	1				0	GP	6.1E+00	1	J			0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	5.1E+00	1				0	GP	6.2E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 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 02/08/95 04/13/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	219.8	220.2	ft msl
pH	6.2	5.9	pH
Sp. conductance	224	221	µS/cm
Water temperature	11.5	21.7	°C
Alkalinity as CaCO ₃	28	29	mg/L
Turbidity	69.9	11.9	NTU
Volume purged	0.86	1.2	well volumes
Sampling code	X	X	
Synchronous water level	220.2 (03/27/95)	220.4 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<2.0	1				0	GE	µg/L
Chromium, total recoverable								5.7	1				0	GE	µg/L
Lead, total recoverable	360	5		■		2	GE	100	1	V	■		2	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE	0.12	1	J			0	GE	µg/L
Selenium, total recoverable								<5.0	1				0	GE	µg/L
Silver, total recoverable															

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								2.2	1	J			0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	3.1	1				1	GE	2.8	1				1	GE	µg/L
Trichlorofluoromethane								1.5	1	J			0	GE	µg/L
Vanadium, total recoverable								6.3	1	JV			0	GE	µg/L
Zinc, total recoverable								26	1		■		0	GE	µg/L

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	450	1		■		2	GE								µg/L
Nitrate as nitrogen	21,000	20		■		2	GE	16,000	40	J	■		2	GE	µg/L
pH								6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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								<1.7	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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	1.5E+01	1				1	GP	8.3E+00	1				1	GP	pCi/L
Nonvolatile beta	8.5E+02	1		■		2	GP	6.8E+02	1		■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.8E+02	1		■		2	GP	6.4E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 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 02/03/95

04/12/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	219.0	219.6	ft msl
pH	4.6	4.4	pH
Sp. conductance	412	208	µS/cm
Water temperature	22	22.4	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	1.5	0.6	NTU
Volume purged	5.8	4.9	well volumes
Sampling code			
Synchronous water level	219.5 (03/27/95)	219.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable								<2.0	1				0	GE	µg/L
Barium, total recoverable								<4.0	1				0	GE	µg/L
Cadmium, total recoverable								1.2	1	J			0	GE	µg/L
Chromium, total recoverable								0.19	1	J			0	GE	µg/L
Lead, total recoverable	<5.0	1	J			0	GE	2.2	1	J			0	GE	µg/L
Mercury, total recoverable	0.74	1				0	GE								
Selenium, total recoverable															
Silver, total recoverable															

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable								<1.7	1				0	GE	µg/L
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								<10	1				0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1	J1			0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	1.6	1	J1			0	GE	1.6	1	J			0	GE	µg/L
Trichlorofluoromethane								<1.7	1				0	GE	µg/L
Vanadium, total recoverable								<10	1				0	GE	µg/L
Zinc, total recoverable								11	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	420	1				2	GE								
Nitrate as nitrogen	38,000	40				2	GE	27,000	20				2	GE	µg/L
pH								5.1	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane								<1.7	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	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+01	1	J			1	GP	4.6E+00	1				0	GP	pCi/L
Nonvolatile beta	3.7E+01	1				1	GP	2.3E+01	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	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	8.7E+02	1		■		2	GP	3.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	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 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	02/08/95	05/04/95

FIELD DATA

<u>Parameter</u>	<u>1Q95</u>	<u>2Q95</u>	<u>Unit</u>
Water elevation	217.8	218.9	ft msl
pH	5.4		pH
Sp. conductance	513		µS/cm
Water temperature	12.4		°C
Alkalinity as CaCO ₃	0		mg/L
Turbidity	5.4		NTU
Volume purged	0.67		well volumes
Sampling code	X	W	
Synchronous water level	218.3 (03/27/95)	218.7 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	5.8	1				0	GE								µg/L
Mercury, total recoverable	<0.33	1				0	GE								µg/L
Selenium, total recoverable															
Silver, total recoverable															

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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	<1.7	1	Y			0	GE								µg/L
Thallium, total recoverable															
Trichloroethylene	<1.7	1	Y			0	GE								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	1,200	1		■		2	GE								µg/L
Nitrate as nitrogen	71,000	50		■		2	GE								µg/L
pH															

Common Laboratory Contaminants

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 FSL 7D (cont.)

Radiological Indicator Parameters

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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		■		2	GP								pCi/L
Nonvolatile beta	7.1E+01	1		■		2	GP								pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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+03	1		■		2	GP								pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 02/03/95

04/12/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	217.0	218.0	ft msl
pH	5.2	4.5	pH
Sp. conductance	75	65	µS/cm
Water temperature	20.4	20.8	°C
Alkalinity as CaCO ₃	3	3	mg/L
Turbidity	4.5	0.5	NTU
Volume purged	4.7	1.2	well volumes
Sampling code			
Synchronous water level	217.8 (03/27/95)	218.0 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable								<2.0	1				0	GE	µg/L
Barium, total recoverable								<4.0	1				0	GE	µg/L
Cadmium, total recoverable								2.2	1	J			0	GE	µg/L
Chromium, total recoverable								<0.20	1				0	GE	µg/L
Lead, total recoverable	<5.0	1				0	GE	<5.0	1				0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE								
Selenium, total recoverable															
Silver, total recoverable															

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable								<1.7	1				0	GE	µg/L
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								3.4	1	J			0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1	J1			0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	24	1	J1			2	GE	<1.7	1				0	GE	µg/L
Trichlorofluoromethane								<1.7	1				0	GE	µg/L
Vanadium, total recoverable								<10	1				0	GE	µg/L
Zinc, total recoverable								11	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE								
Nitrate as nitrogen	5,800	4				1	GE	5,300	4				1	GE	µg/L
pH								5.2	1	J1			0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane								<1.7	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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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+00	1				0	GP	2.3E+00	1				0	GP	pCi/L
Nonvolatile beta	1.8E+00	1				0	GP	2.5E+00	1				0	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	3.0E+01	1		■		2	GP	3.9E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 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	02/03/95	04/12/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	215.9	217.4	ft msl
pH	4.6	4.2	pH
Sp. conductance	140	128	µS/cm
Water temperature	21.4	21.2	°C
Alkalinity as CaCO ₃	0	0	mg/L
Turbidity	3.6	1.8	NTU
Volume purged	8.4	6.5	well volumes
Sampling code			
Synchronous water level	217.2 (03/27/95)	217.1 (06/15/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable								0.64	1	J			0	GE	µg/L
Barium, total recoverable								<4.0	1				0	GE	µg/L
Cadmium, total recoverable								3.8	1	J			0	GE	µg/L
Chromium, total recoverable								0.56	1				0	GE	µg/L
Lead, total recoverable	<5.0	1	J			0	GE	<5.0	1				0	GE	µg/L
Mercury, total recoverable	0.90	1				0	GE								
Selenium, total recoverable															
Silver, total recoverable															

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable								<1.7	1				0	GE	µg/L
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable								8.2	1	J			0	GE	µg/L
Phenols															
Tetrachloroethylene	<1.7	1	J1		•	0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	1.3	1	J1		•	0	GE	1.3	1	J			0	GE	µg/L
Trichlorofluoromethane								5.9	1		■		1	GE	µg/L
Vanadium, total recoverable								<10	1				0	GE	µg/L
Zinc, total recoverable								25	1		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,600	1		■		2	GE								
Nitrate as nitrogen	13,000	20		■		2	GE	14,000	20		■		2	GE	µg/L
pH								4.7	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane								<1.7	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

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>Unit</u>
Gross alpha	8.1E+01	1	J	■		2	GP	1.3E+02	1		■		2	GP	pCi/L
Nonvolatile beta	2.6E+02	1		■		2	GP	3.2E+02	1	J	■		2	GP	pCi/L

Measured Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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	4.7E+02	1		■		2	GP	4.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

<u>Parameter</u>	<u>1Q95</u>	<u>DF</u>	<u>Mod</u>	<u>ST</u>	<u>H</u>	<u>Flag</u>	<u>Lab</u>	<u>2Q95</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 HSB 85A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
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 01/12/95 04/04/95

FIELD DATA

Parameter	1Q95	2Q95	Unit
Water elevation	168.8	169.4	ft msl
pH	6.8	7.7	pH
Sp. conductance	179	179	µS/cm
Water temperature	20.5	20	°C
Alkalinity as CaCO ₃	69	69	mg/L
Turbidity	0.6	0.8	NTU
Volume purged	3.5	3.8	well volumes
Sampling code			
Synchronous water level	169.5 (03/27/95)	169.5 (06/16/95)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<3.3	1				0	GE	<5.0	1				0	GE	µg/L
Barium, total recoverable	30	1				0	GE	29	1	V			0	GE	µg/L
Cadmium, total recoverable	<3.3	1				0	GE	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<6.7	1				0	GE	<4.0	1				0	GE	µg/L
Lead, total recoverable	<5.0	1				0	GE	2.8	1	J			0	GE	µg/L
Mercury, total recoverable	<0.33	1				0	GE	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<3.3	1				0	GE	<5.0	1				0	GE	µg/L
Silver, total recoverable	<3.3	1				0	GE	<0.65	1				0	GE	µg/L

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

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.3	1				0	GE	<5.0	1				0	GE	µg/L
Benzene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Cobalt, total recoverable	<6.7	1				0	GE								
Copper, total recoverable	<6.7	1				0	GE	1.6	1	JVV			0	GE	µg/L
Cyanide	<8.3	1				0	GE	<20	1				0	GE	µg/L
Nickel, total recoverable	<6.7	1				0	GE	<10	1				0	GE	µg/L
Phenols	<8.3	1				0	GE								
Tetrachloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Thallium, total recoverable															
Trichloroethylene	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Trichlorofluoromethane	<1.7	1				0	GE	<1.7	1				0	GE	µg/L
Vanadium, total recoverable	<13	1				0	GE	0.64	1	JVV			0	GE	µg/L
Zinc, total recoverable	<3.3	1				0	GE								

Water Quality Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<33	1				0	GE	85	1	V	■		2	GE	µg/L
Nitrate as nitrogen	<83	1				0	GE	<100	1				0	GE	µg/L
pH	6.9	1	J1		●	0	GE	7.1	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<17	1				0	GE								
Dichloromethane	<1.7	1				0	GE	<1.7	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 HSB 85A (cont.)

Radiological Indicator Parameters

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.9E-01	1	UI			0	GP	8.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	9.3E-01	1	UI			0	GP	2.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Actinium-228	5.9E+00	1	UI			0	GP								pCi/L
Americium-241	2.0E-01	1	UI			0	GP								pCi/L
Cesium-137	3.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.4E+00	1	UI			0	GP								pCi/L
Curium-242	-4.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.2E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	5.3E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.3E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	-2.6E-02	1	UI			0	GP								pCi/L
Radium-226	8.0E-02	1	UI			0	GP								pCi/L
Radium-228	-3.4E-01	1	UI			0	GP								pCi/L
Strontium-89	-3.8E-01	1	UI			0	GP								pCi/L
Strontium-90	2.6E+00	1				0	GP								pCi/L
Technetium-99	5.3E+00	1	UI			0	GP								pCi/L
Thorium-228	2.2E-02	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	9.2E+00	1	UI			0	GP								pCi/L
Tritium	-2.3E-01	1	UI			0	GP	-4.1E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	9.7E-02	1	UI			0	GP								pCi/L
Uranium-235	-8.2E-03	1	UI			0	GP								pCi/L
Uranium-238	4.9E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	1Q95	DF	Mod	ST	H	Flag	Lab	2Q95	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.6E-04					0									pCi/L
Nickel-63	1.4E+00					0									pCi/L
Plutonium-241	-1.0E-01					0									pCi/L
Plutonium-242	-5.2E-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.

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; EPD/EMS' review of the QA/QC data cannot be completed in time to meet the deadlines for the groundwater monitoring 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.

Results below Detection

For radiological analyses, the analytical result field contains the result recorded on the analytical instrument and reported by the laboratory, even if it is negative. For non-radiological analyses, if the analyte is not detected, the sample-specific estimated quantitative limit (EQL) is entered into the result field (with a less than [$<$] sign). The EQL is defined as the lowest concentration that can be achieved reliably within specified limits of precision and accuracy during routine laboratory operating conditions. The sample-specific EQL is modified for sample concentration or dilution or unusual aliquot size that affects analytical sensitivity.

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 modifiers (also referred to as qualifiers) can be a key component in assessing data usability. 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. In these regulatory reports, the modifier V is applied to every result that is run in the same batch as a laboratory blank with positive results for that analyte. A second V qualifier is added if the analyte concentration is less than five times the concentration in the blank (or, for common laboratory contaminants, less than ten times.)

<u>Method</u>	<u>Used to Analyze</u>	<u>Source</u>
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
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 the Savannah River Site.

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, 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	$1.00C$	$0.20\bar{X}$	$0.35\bar{X}$
Chloroform	$0.93C - 0.39$	$0.13\bar{X} + 0.15$	$0.19\bar{X} - 0.02$
Chloromethane	$0.77C + 0.18$	$0.28\bar{X} - 0.31$	$0.52\bar{X} + 1.31$
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	$0.91C - 0.93$	$0.11\bar{X} + 0.33$	$0.21\bar{X} + 1.43$
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.

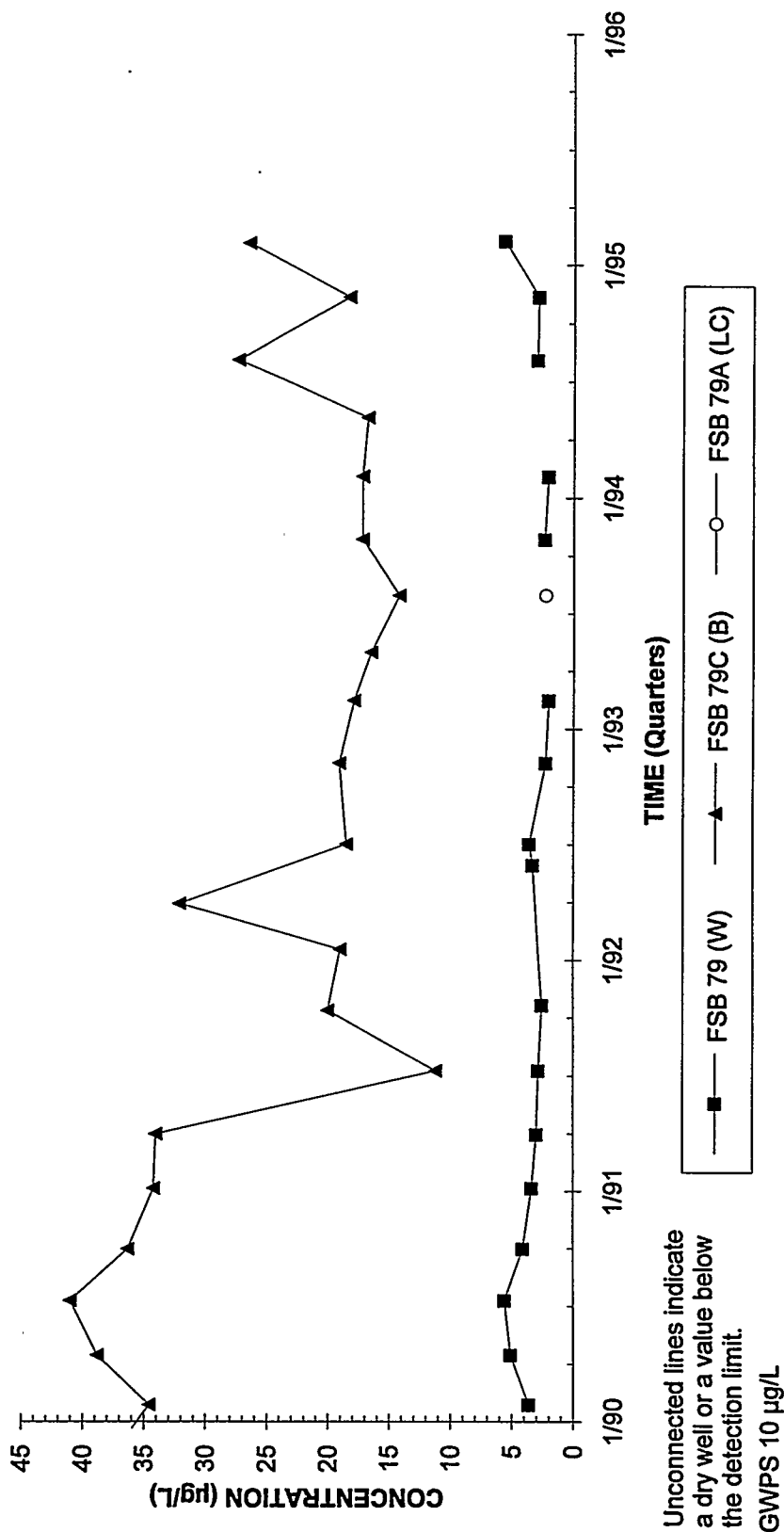
EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1991. **Test Method, The Determination of Inorganic Anions in Water by Ion Chromatography—Method 300.0**. Cincinnati, OH.

Appendix F

Time Series Plots

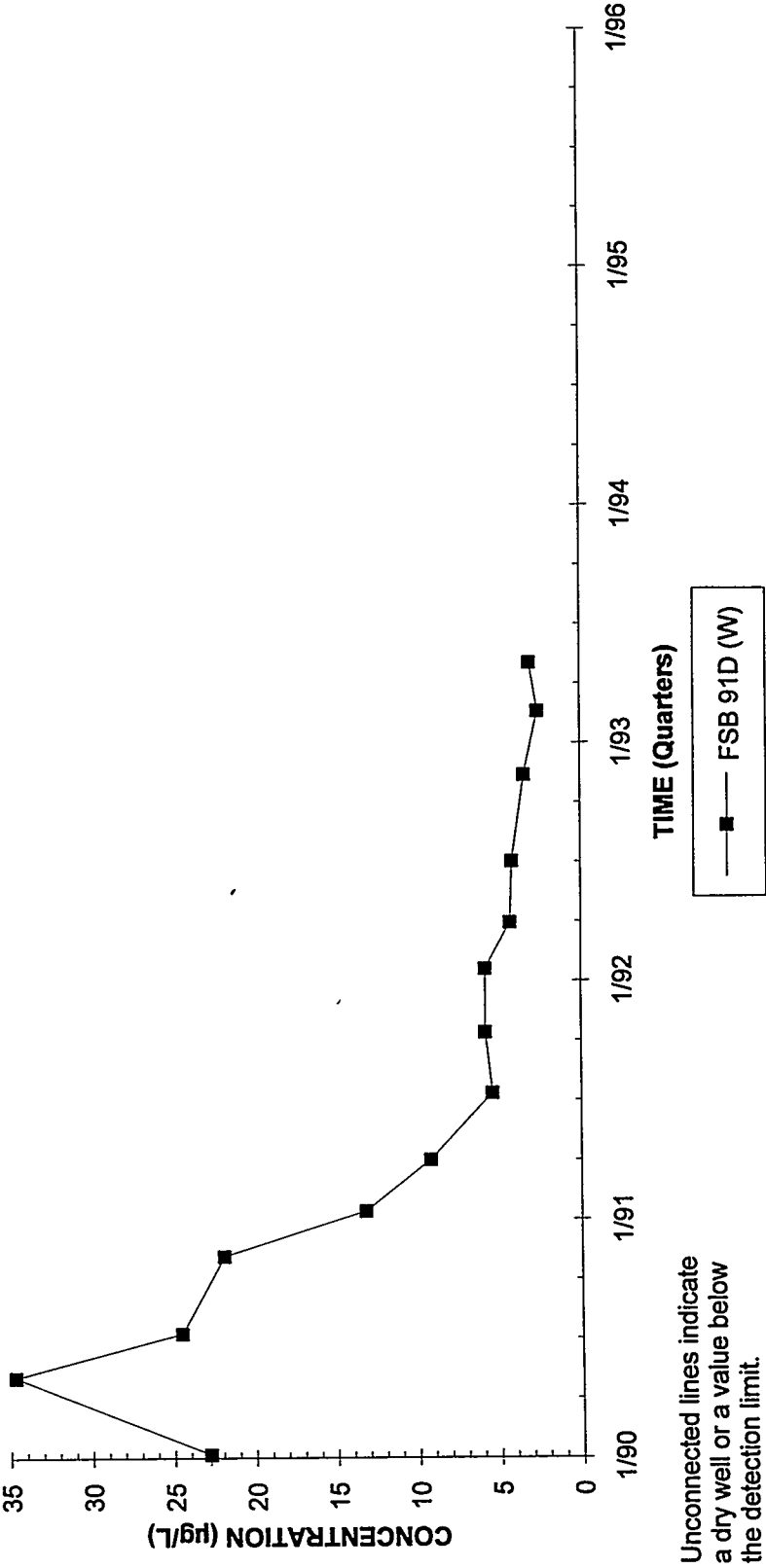
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Cadmium Concentrations Well Cluster FSB 79



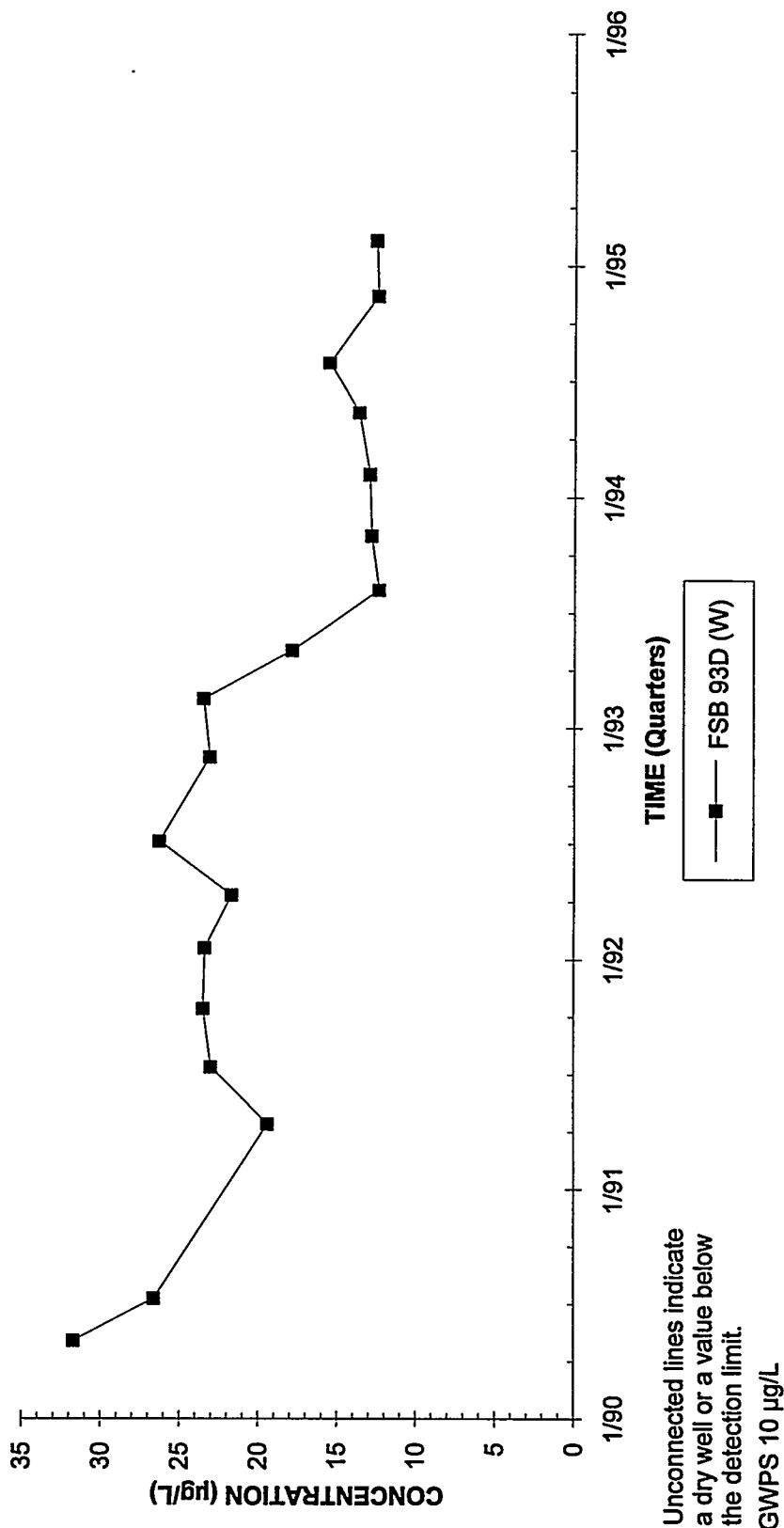
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations
Well FSB 91D



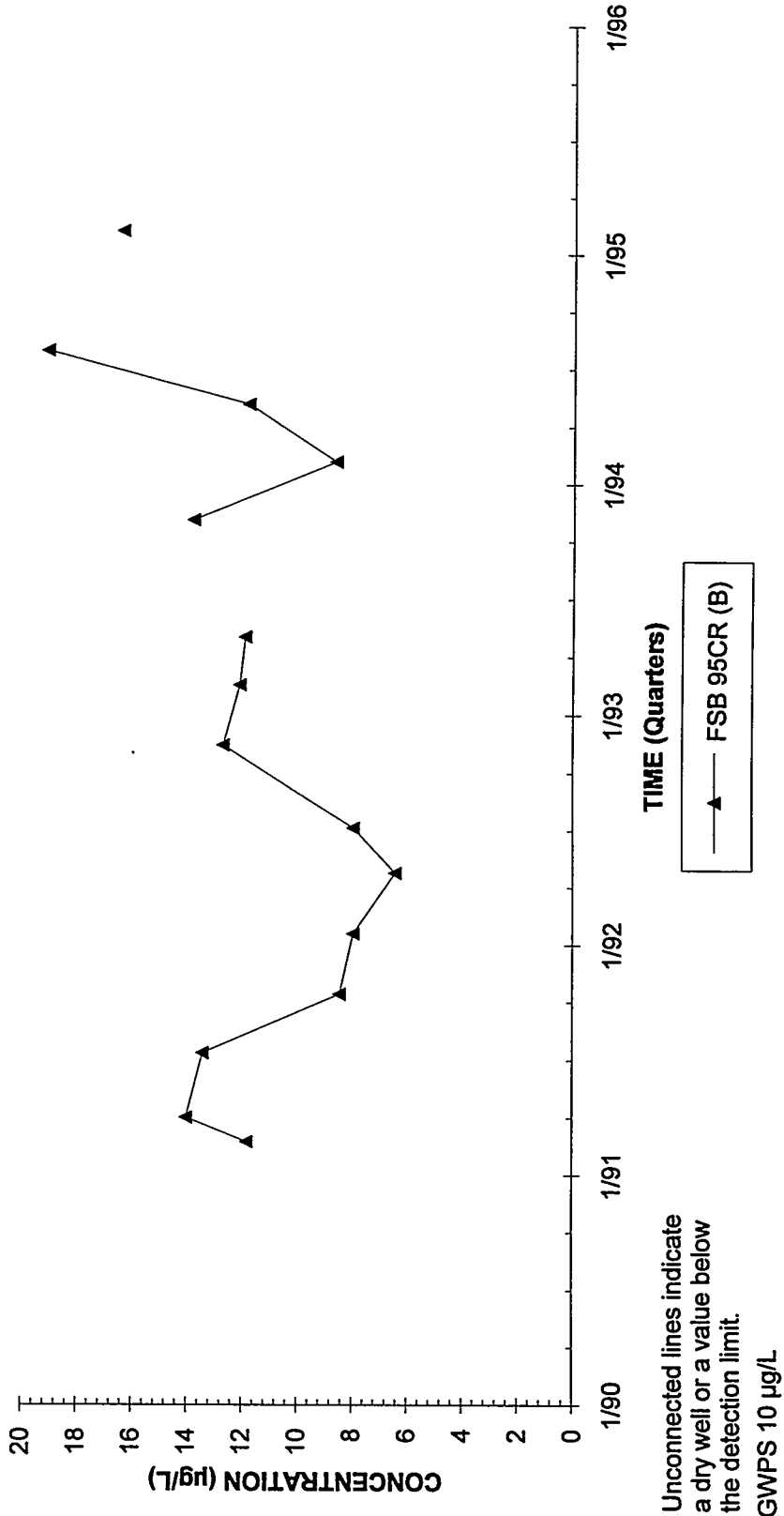
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Cadmium Concentrations Well FSB 93D



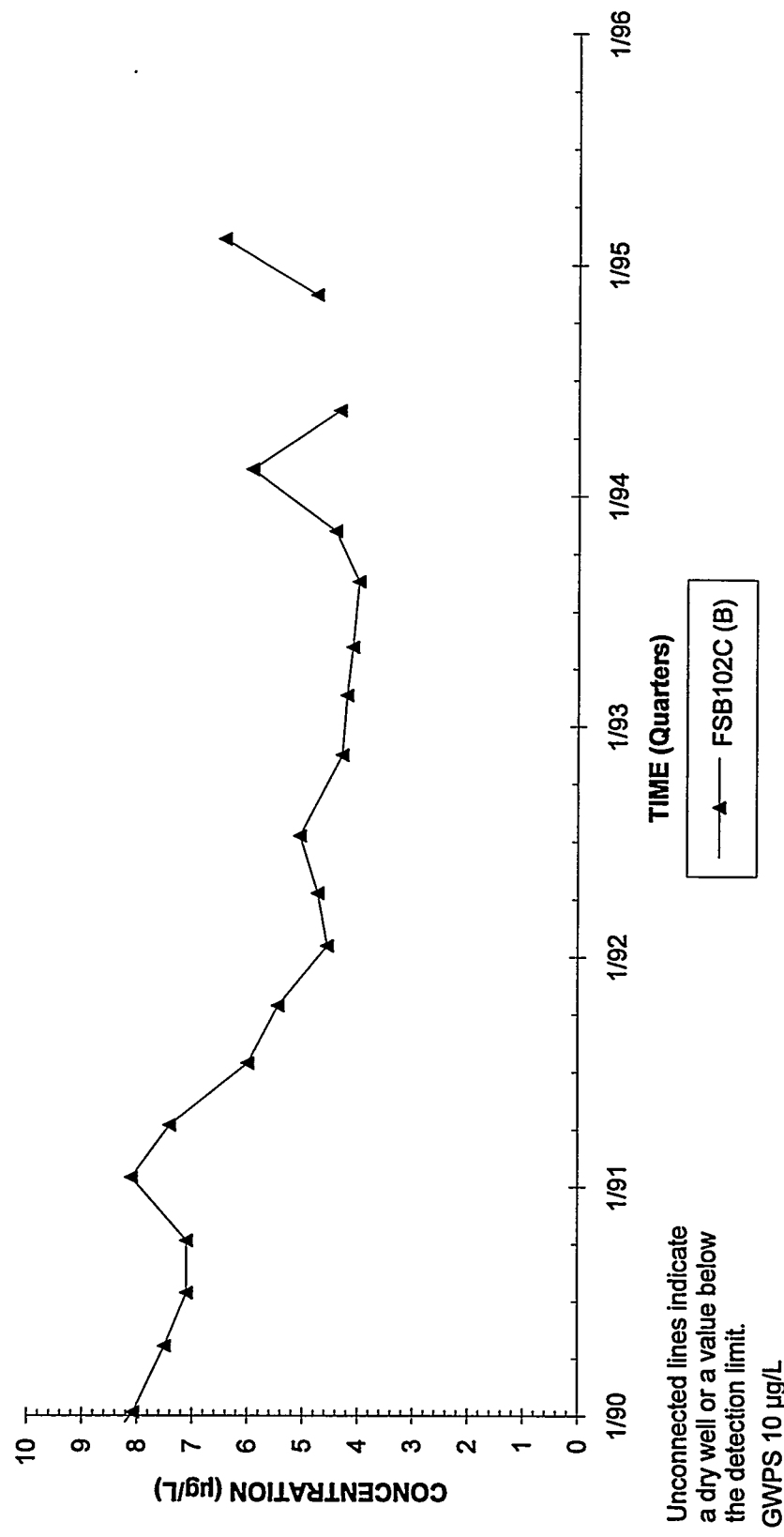
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations
Well FSB 95CR



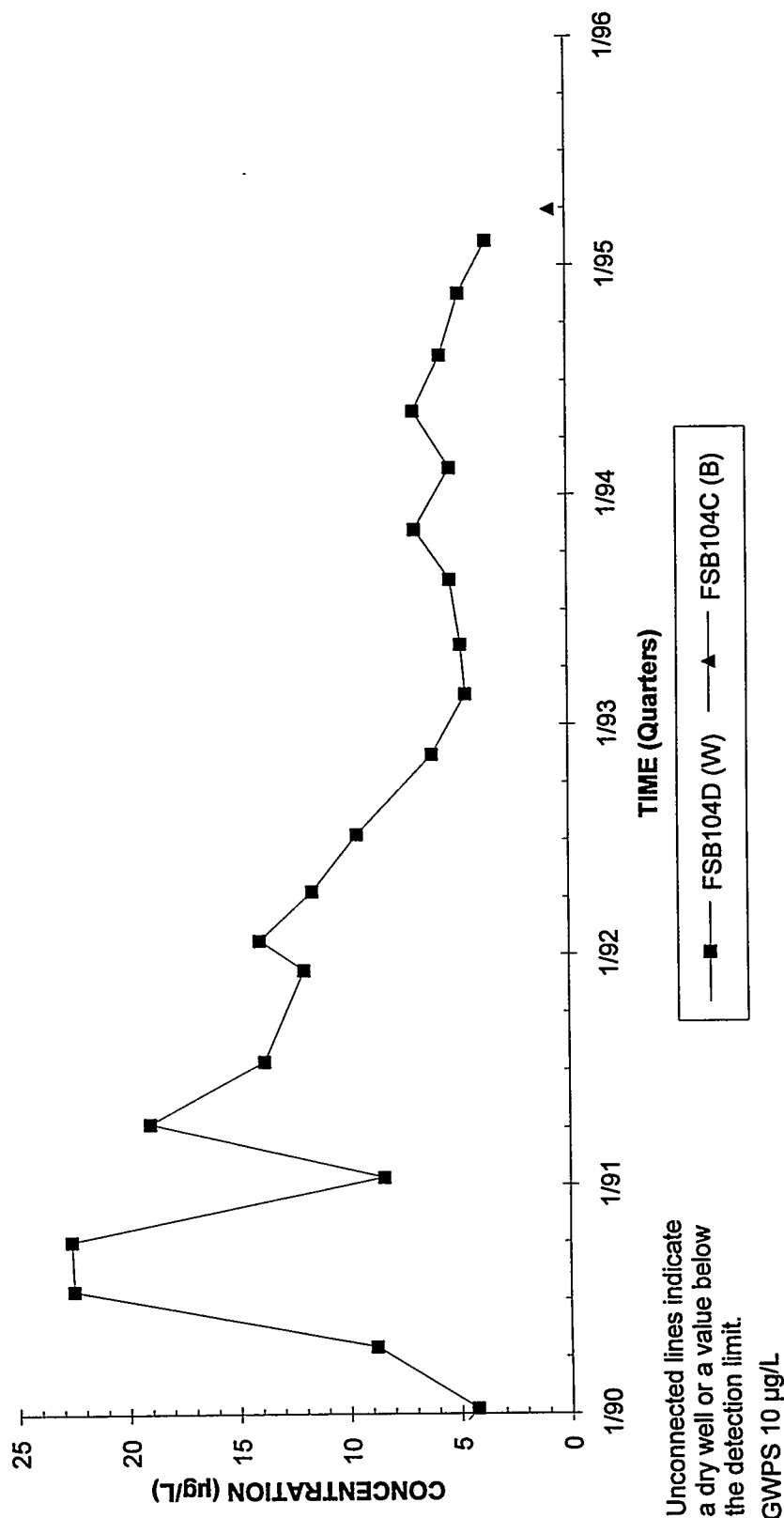
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Cadmium Concentrations Well FSB102C



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

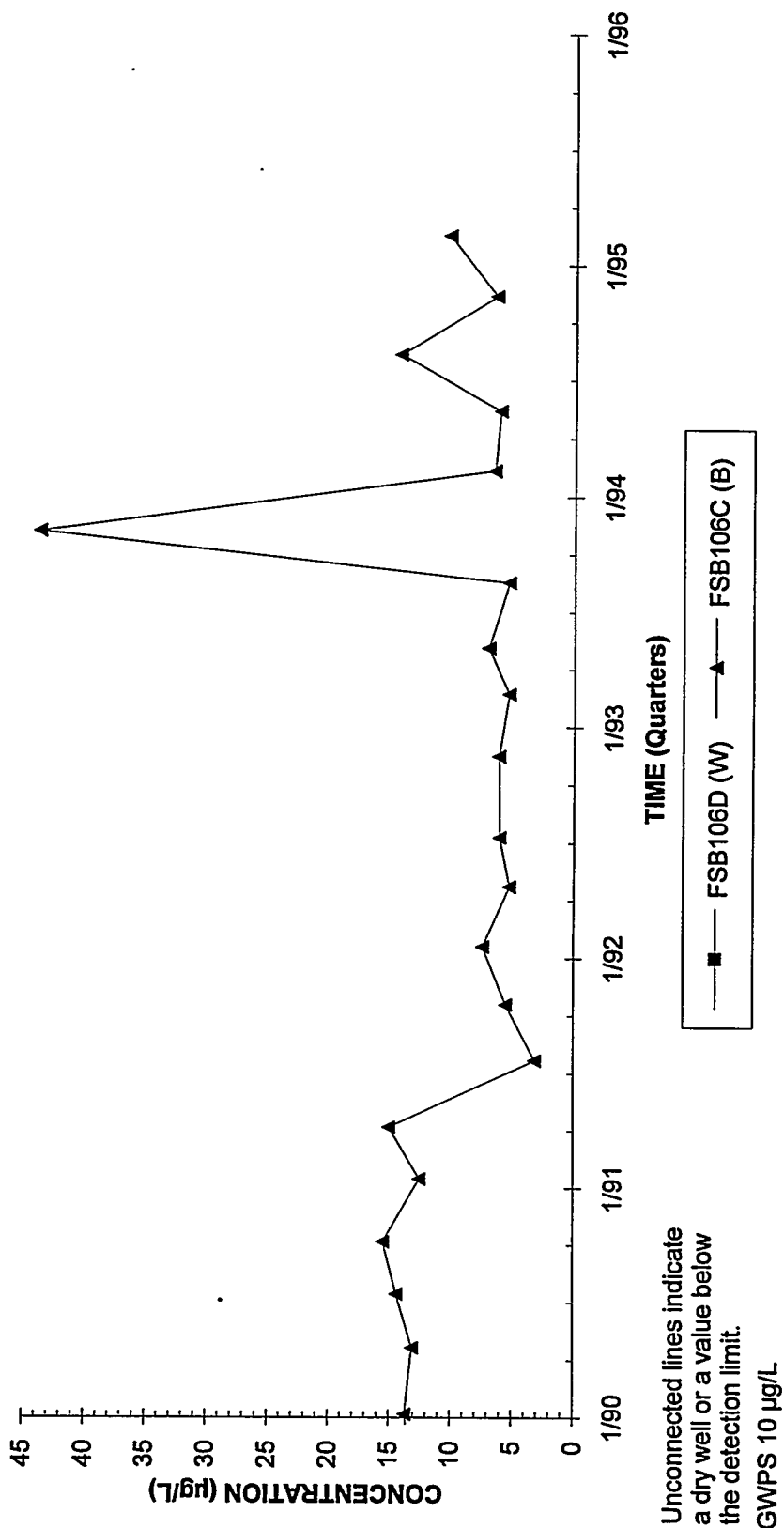
Cadmium Concentrations Well Cluster FSB104



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

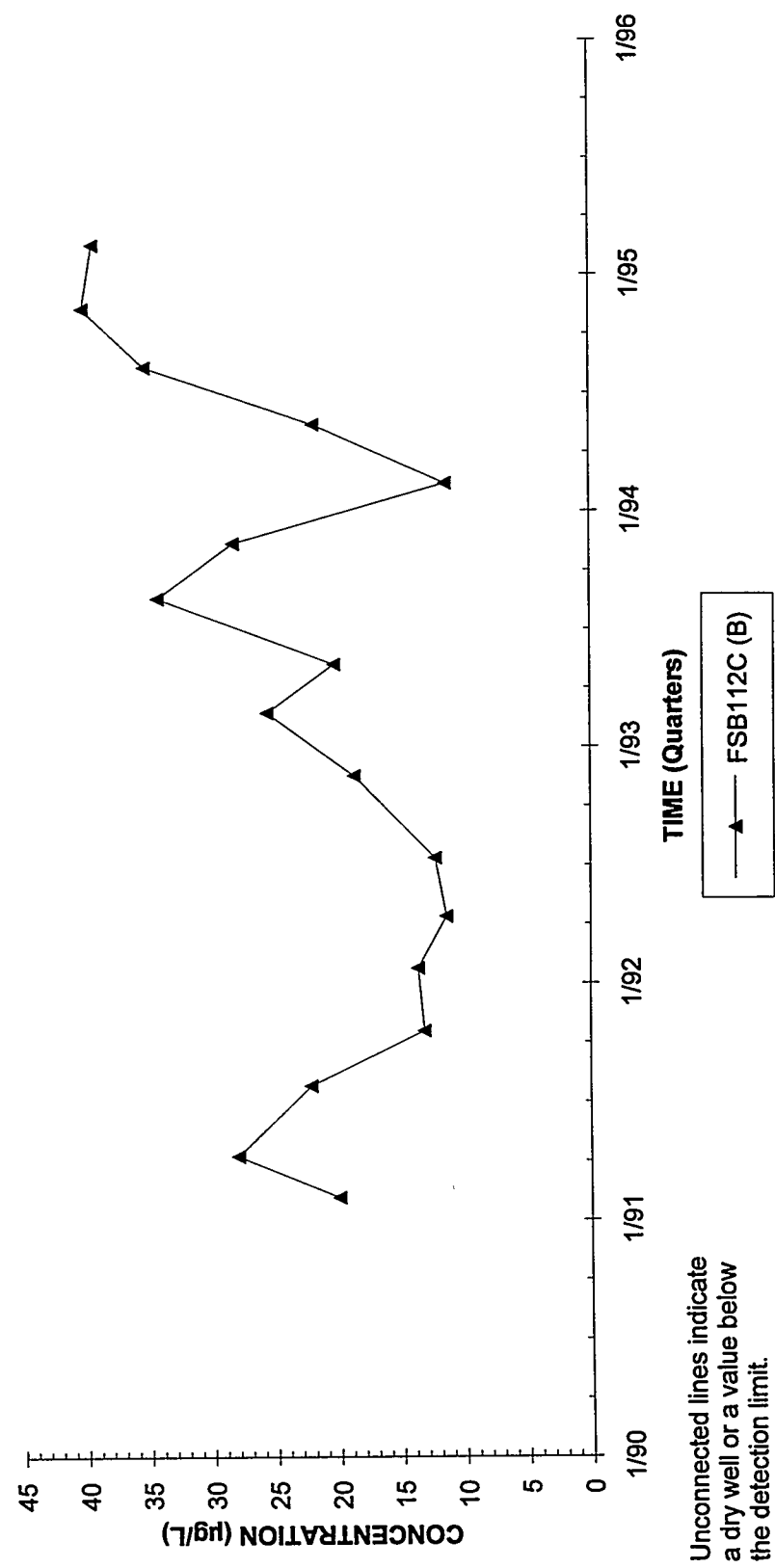
First and Second Quarters 1995

Cadmium Concentrations Well Cluster FSB106



Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

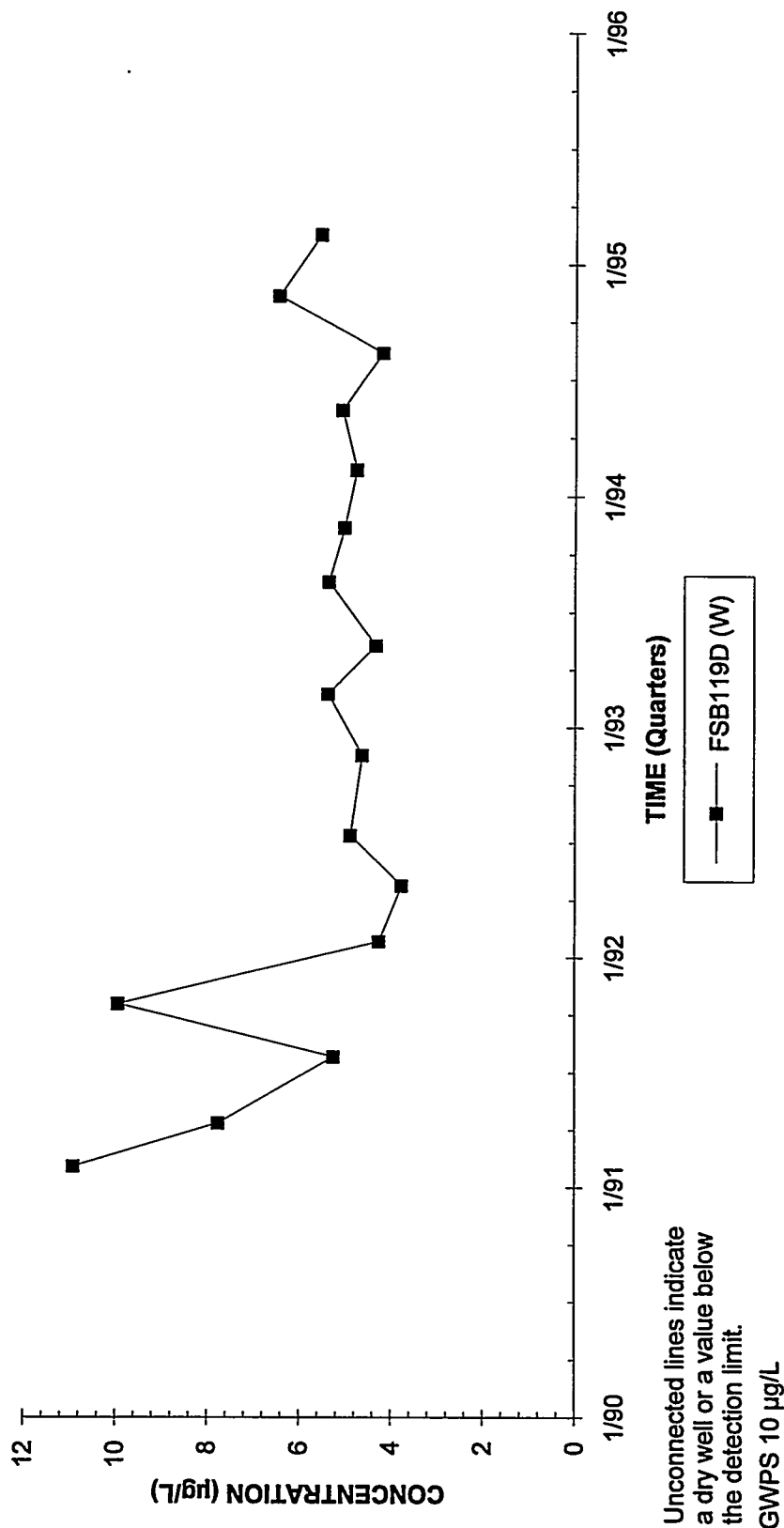
Cadmium Concentrations Well FSB112C



Unconnected lines indicate
a dry well or a value below
the detection limit.
GWPS 10 µg/L

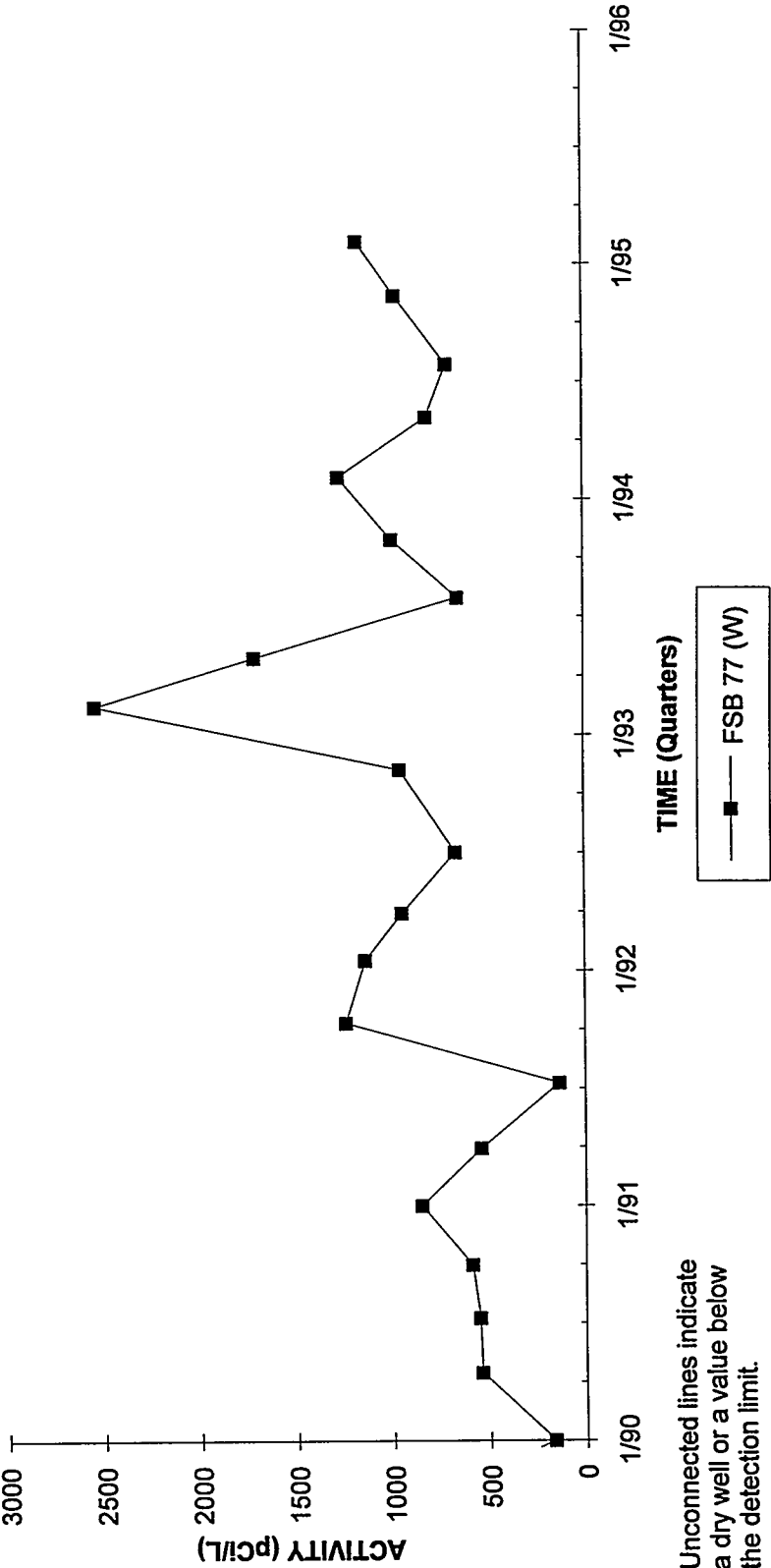
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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

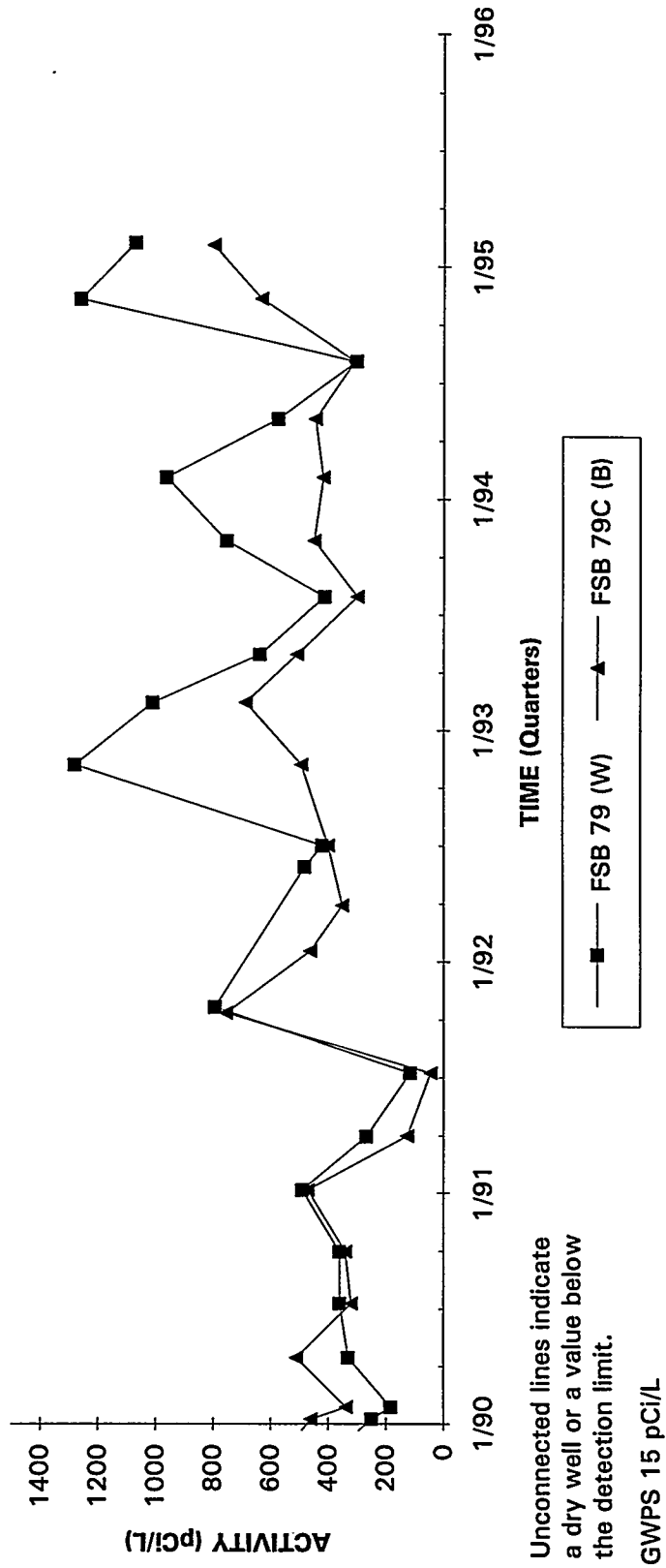


Unconnected lines indicate
a dry well or a value below
the detection limit.

GWPS 15 pCi/L

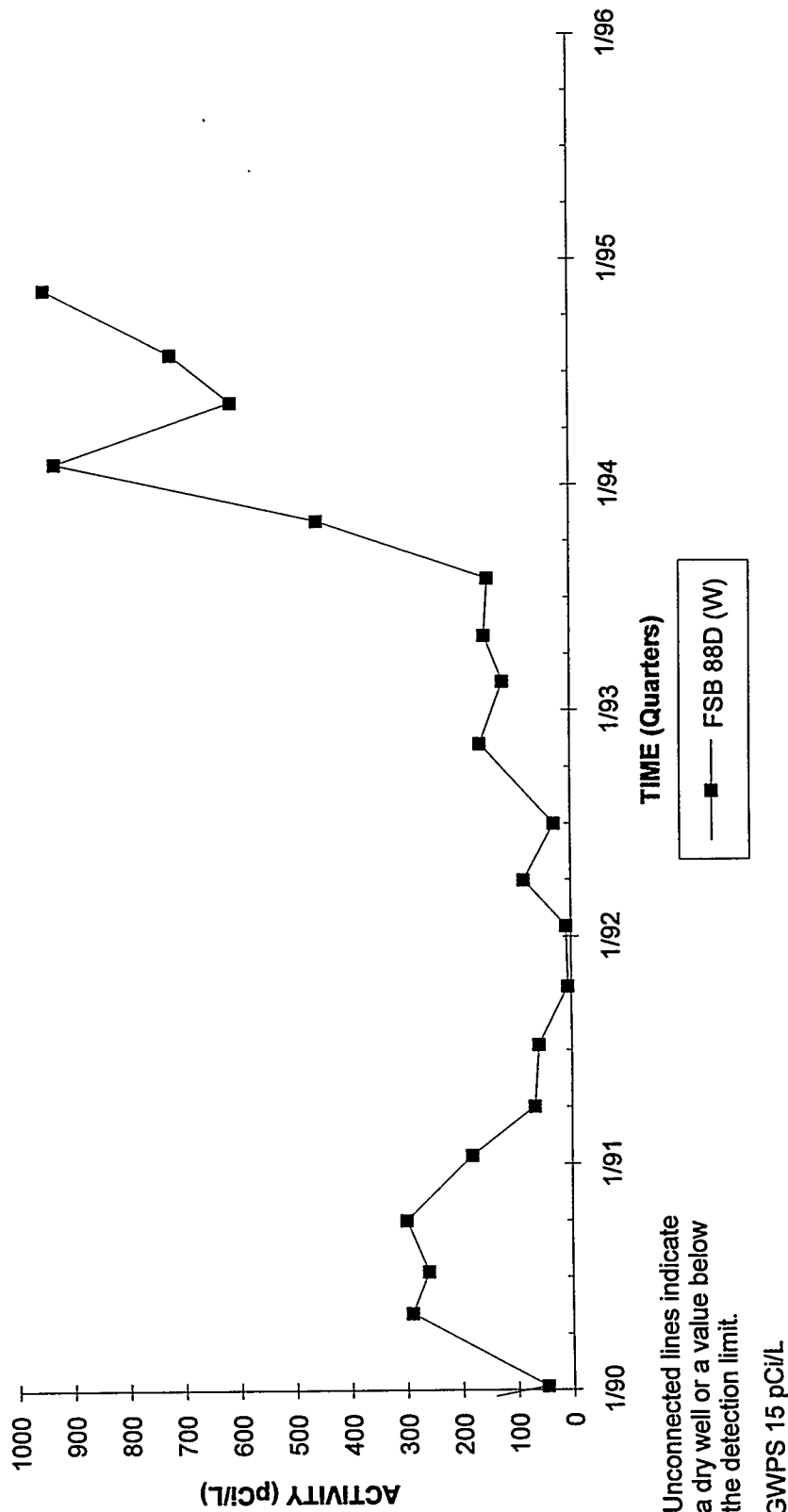
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 79



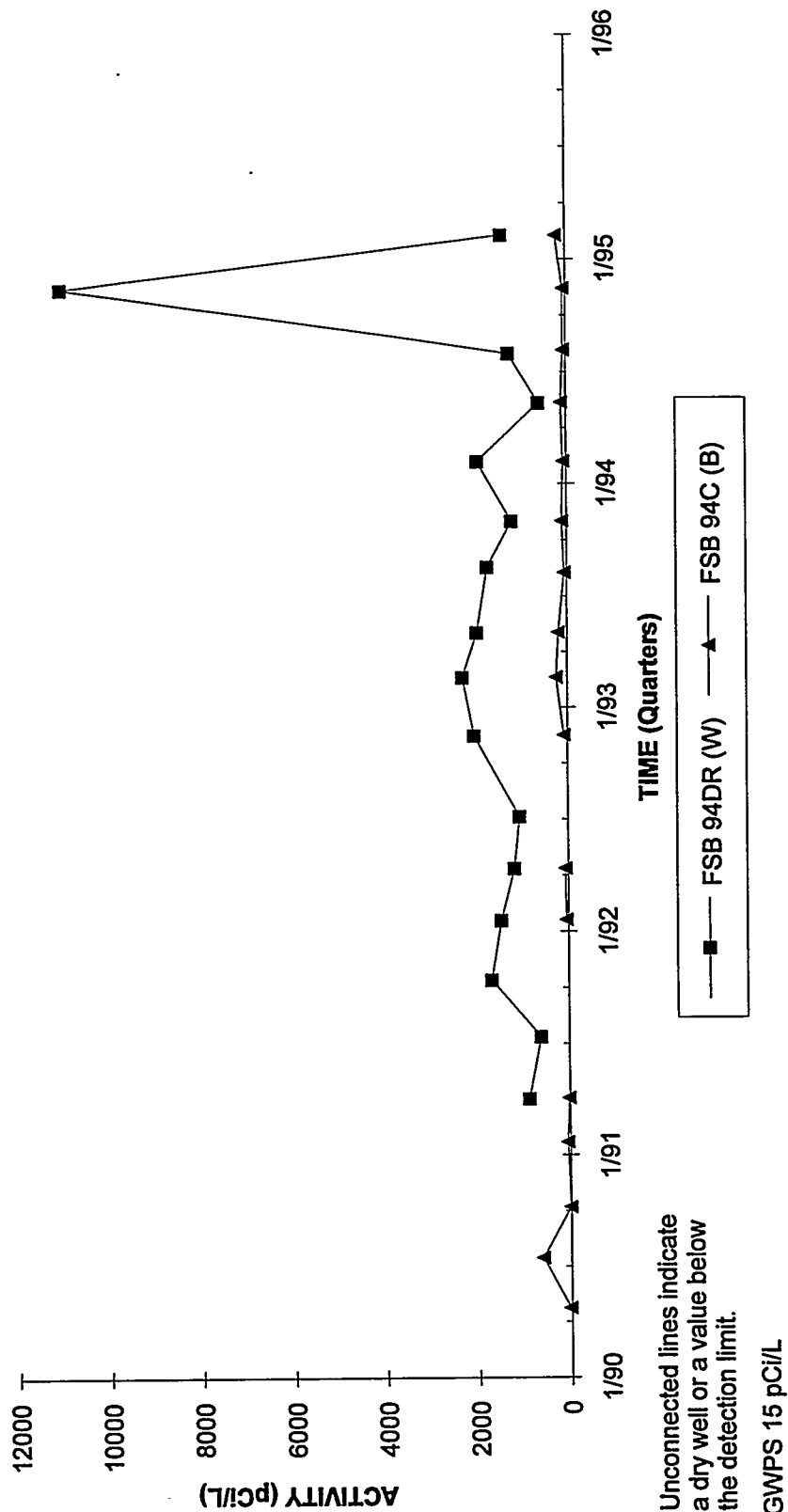
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well FSB 88D



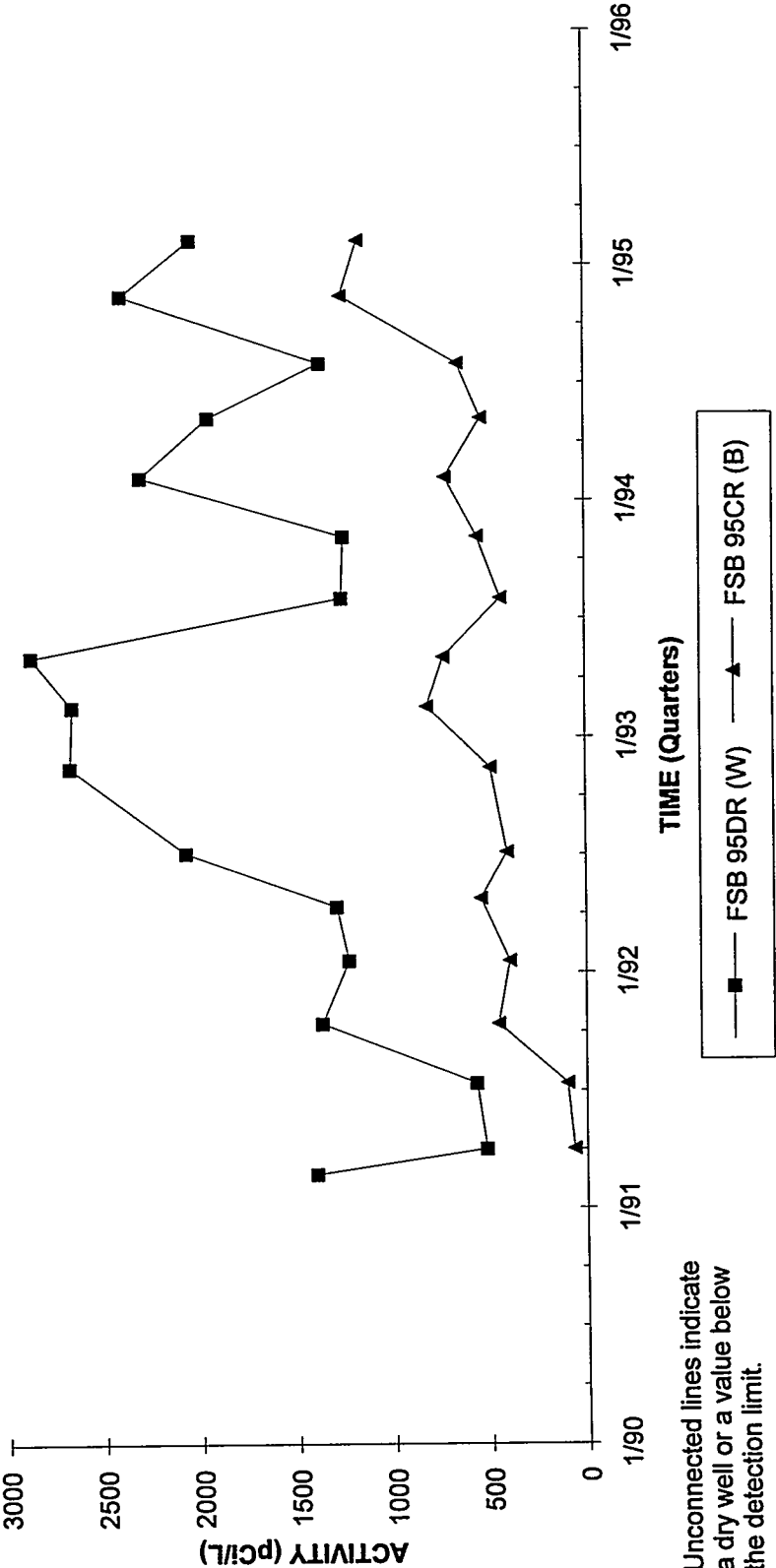
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 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

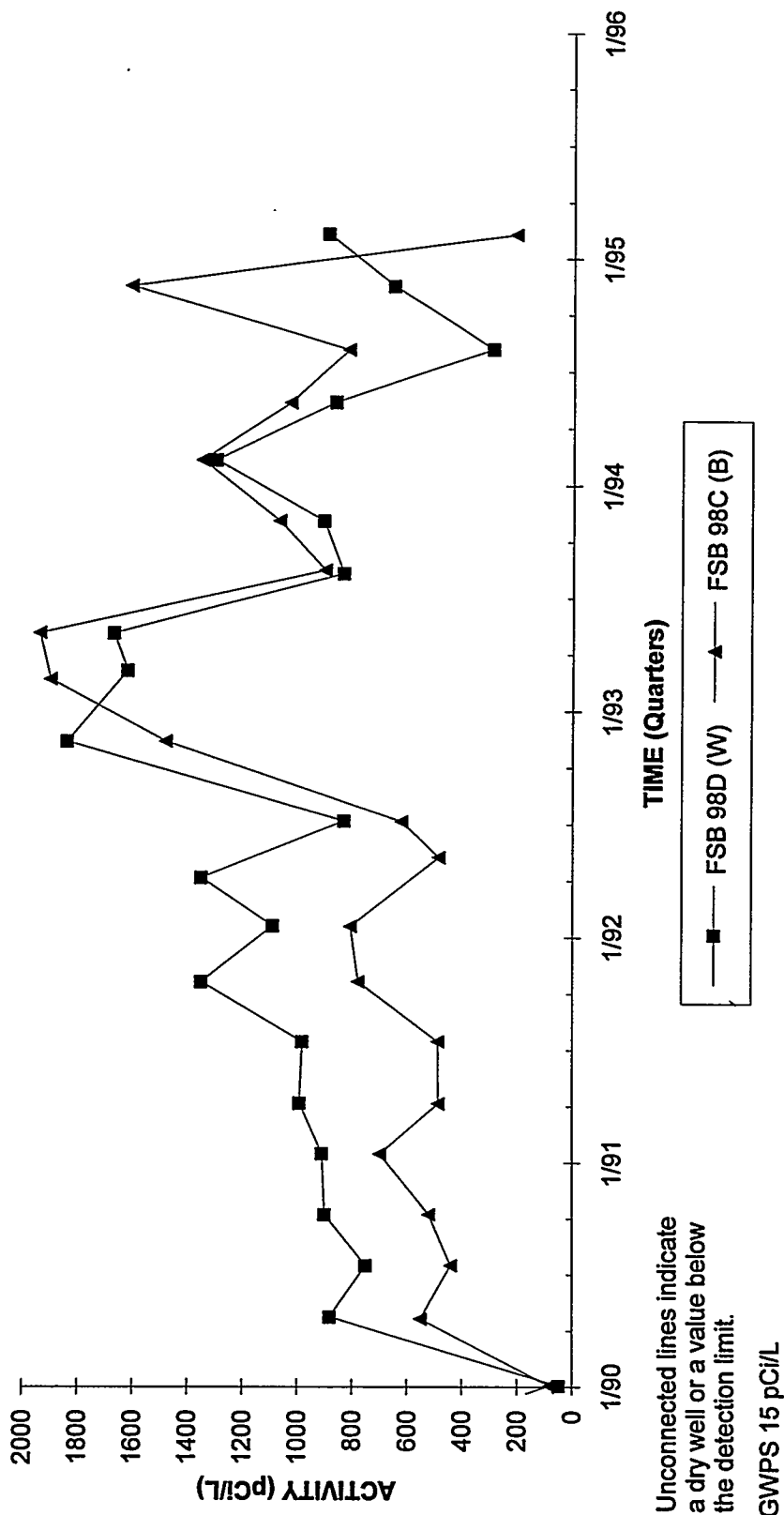


Unconnected lines indicate a dry well or a value below the detection limit.

GWPS 15 pCi/L

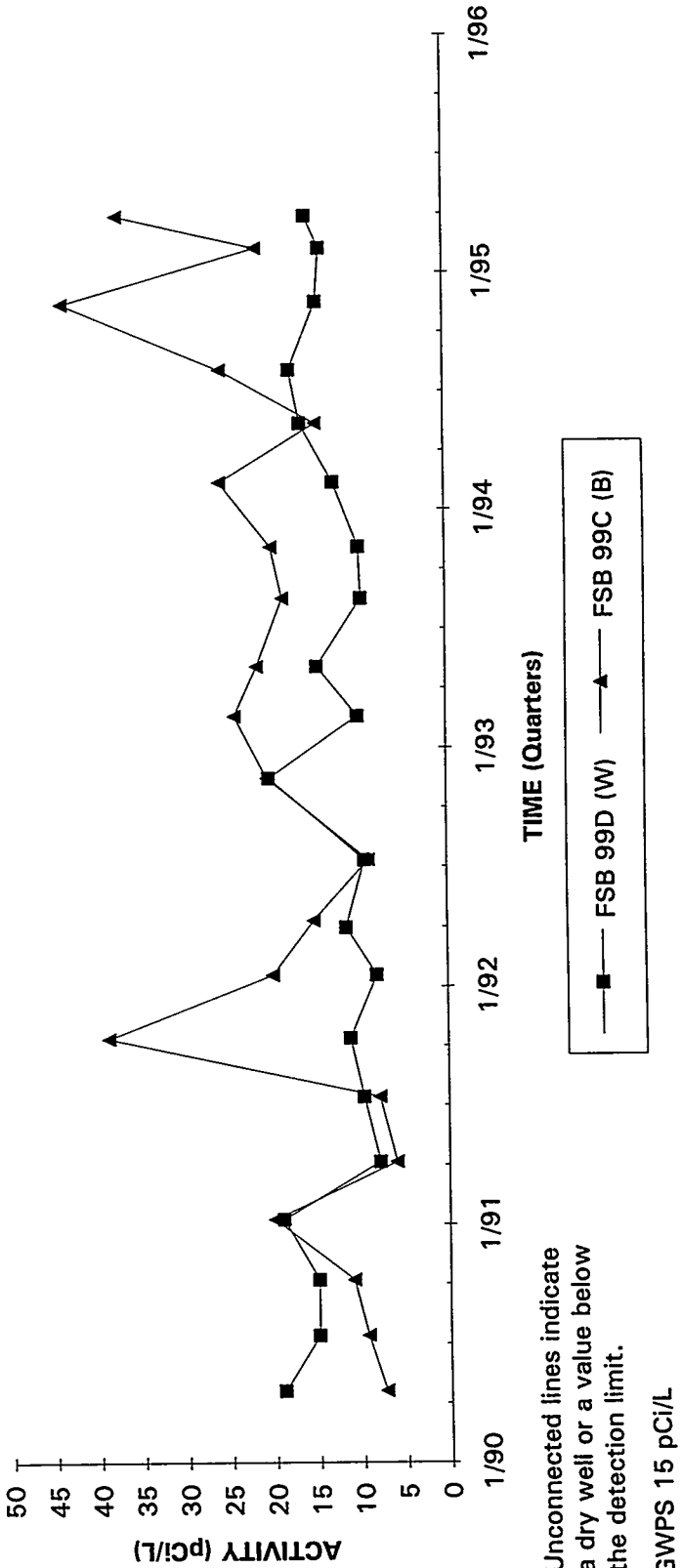
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB 98



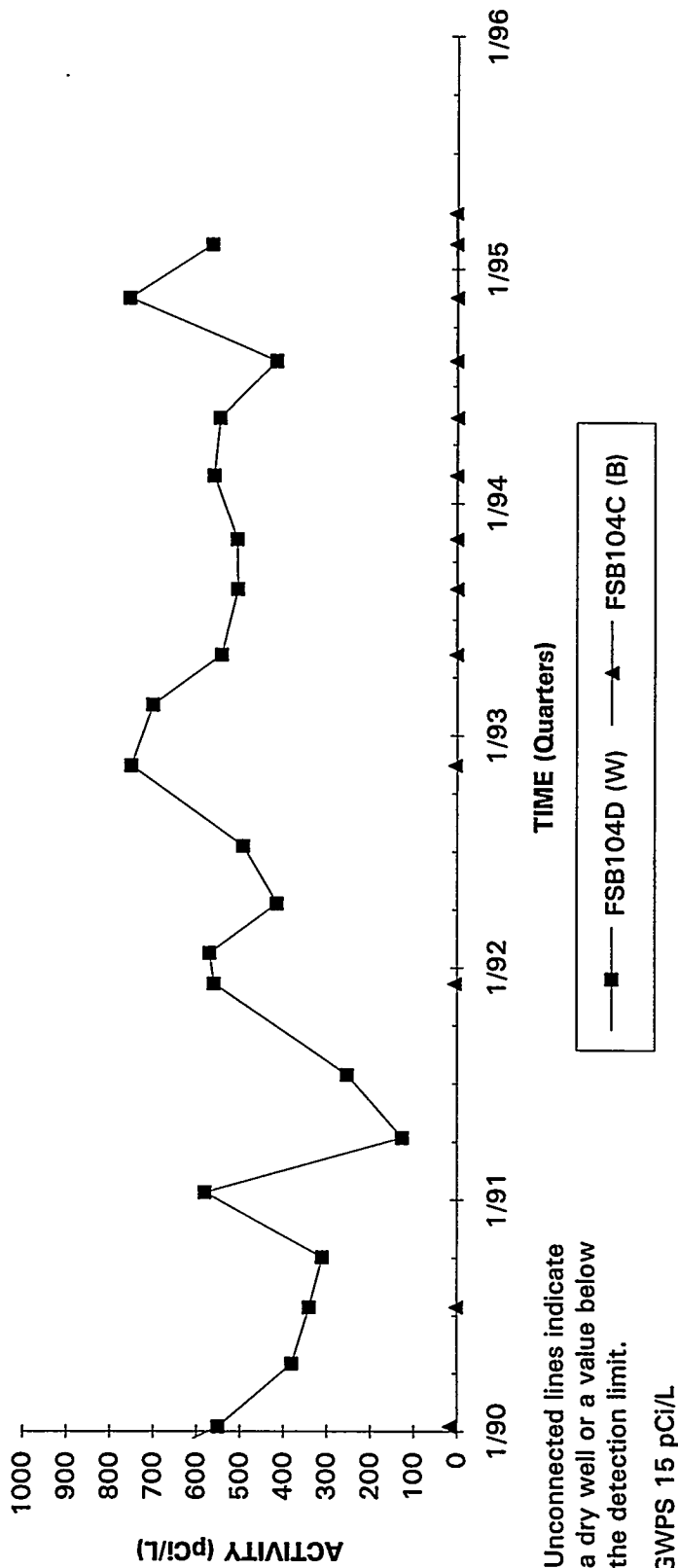
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities
Well Cluster FSB 99



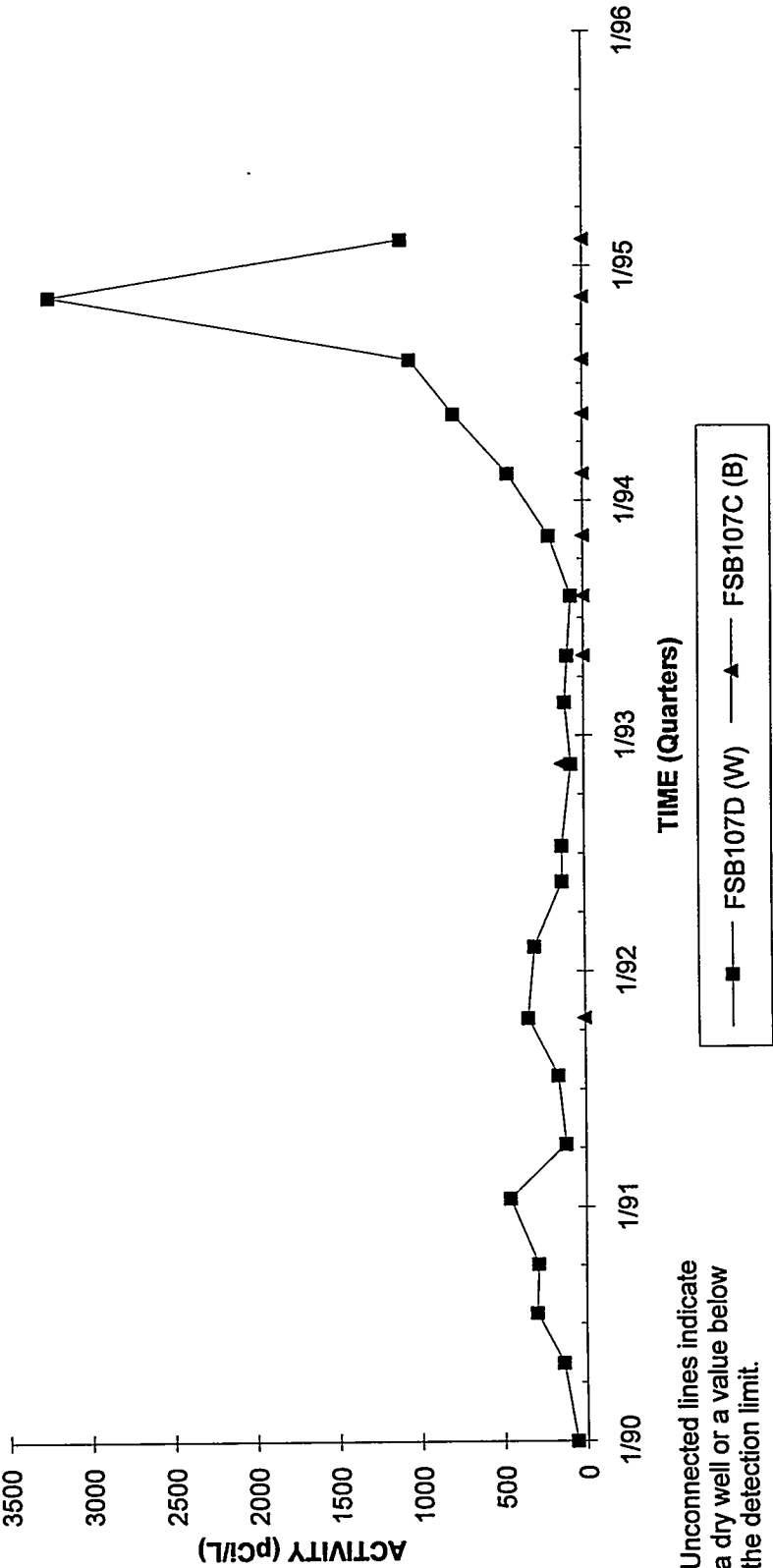
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Gross Alpha Activities Well Cluster FSB104



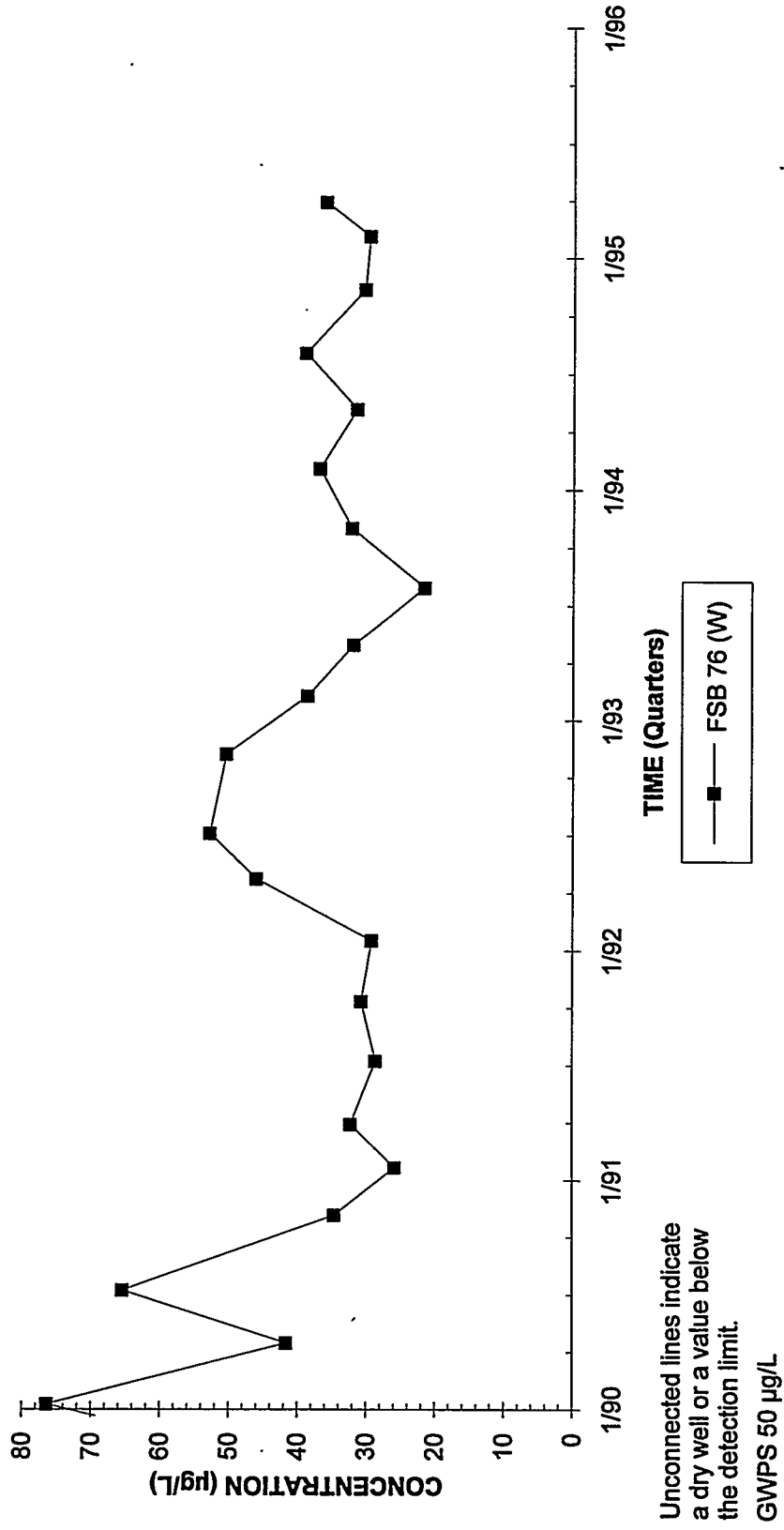
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Gross Alpha Activities Well Cluster FSB107



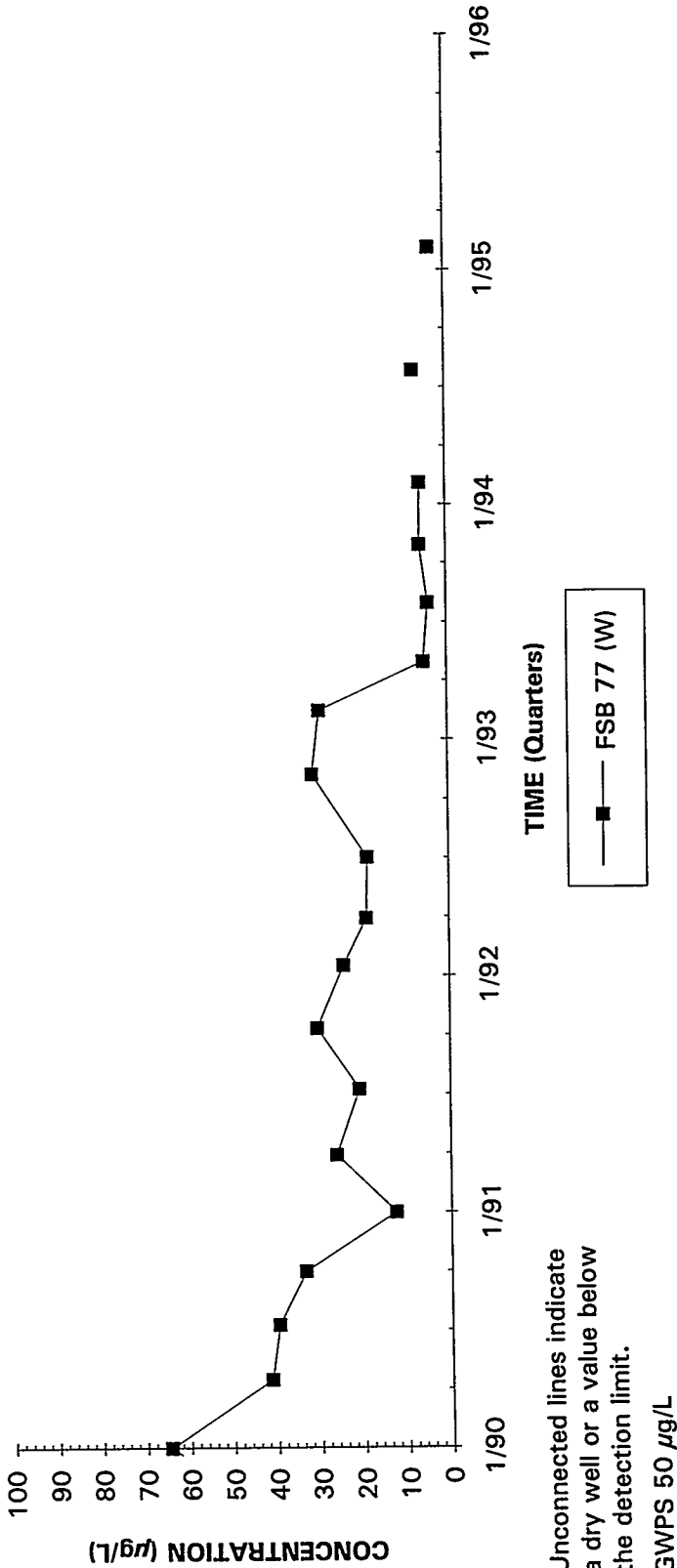
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB 76



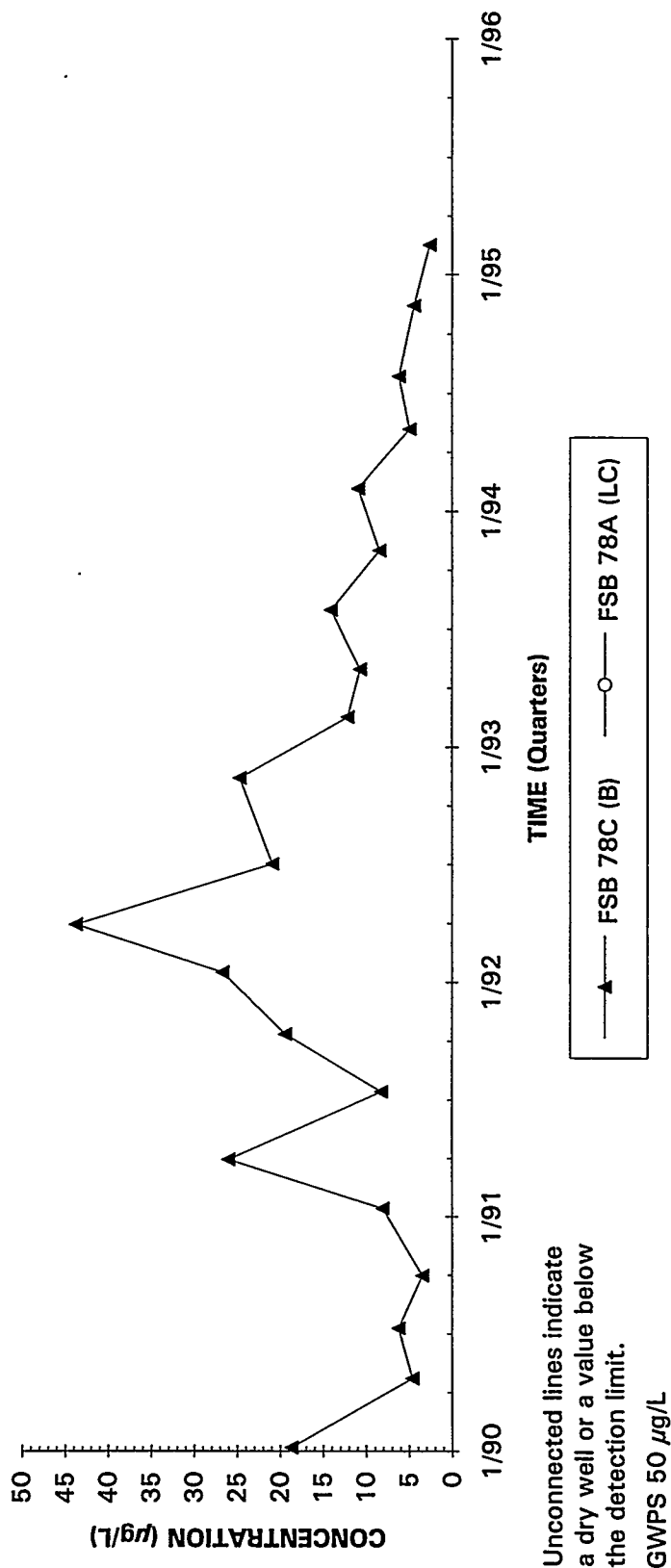
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB 77



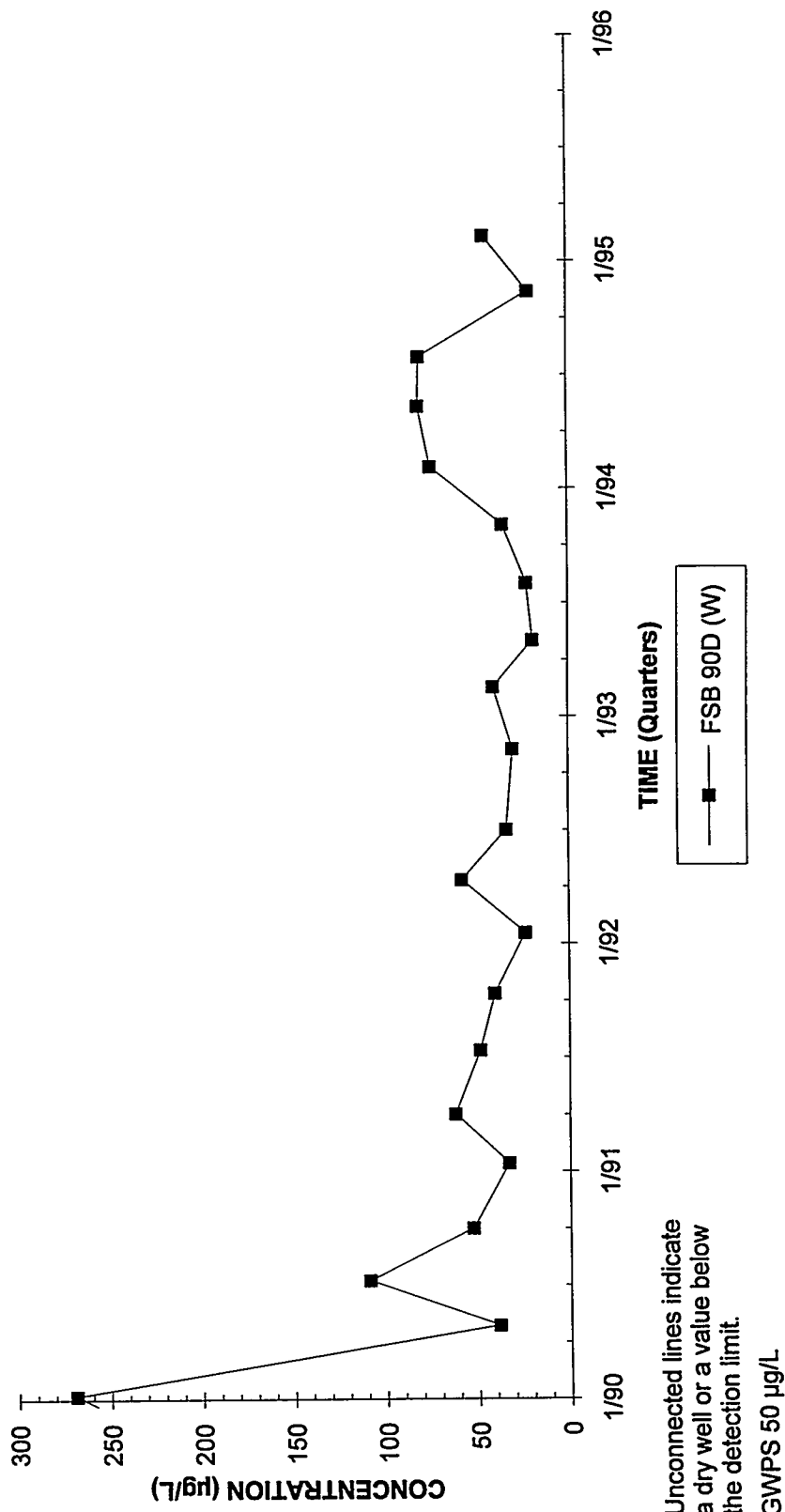
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

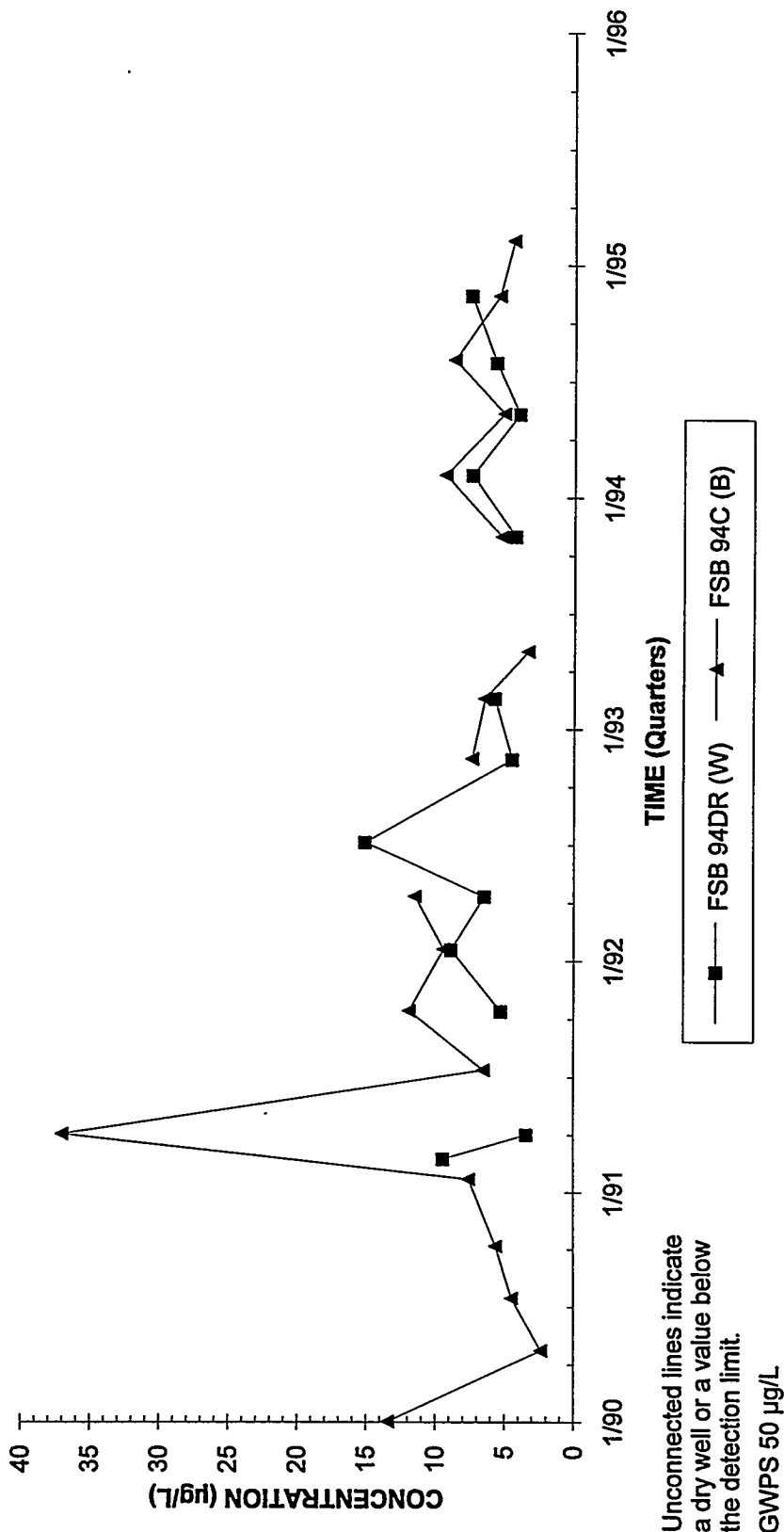
Lead Concentrations Well FSB 90D



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

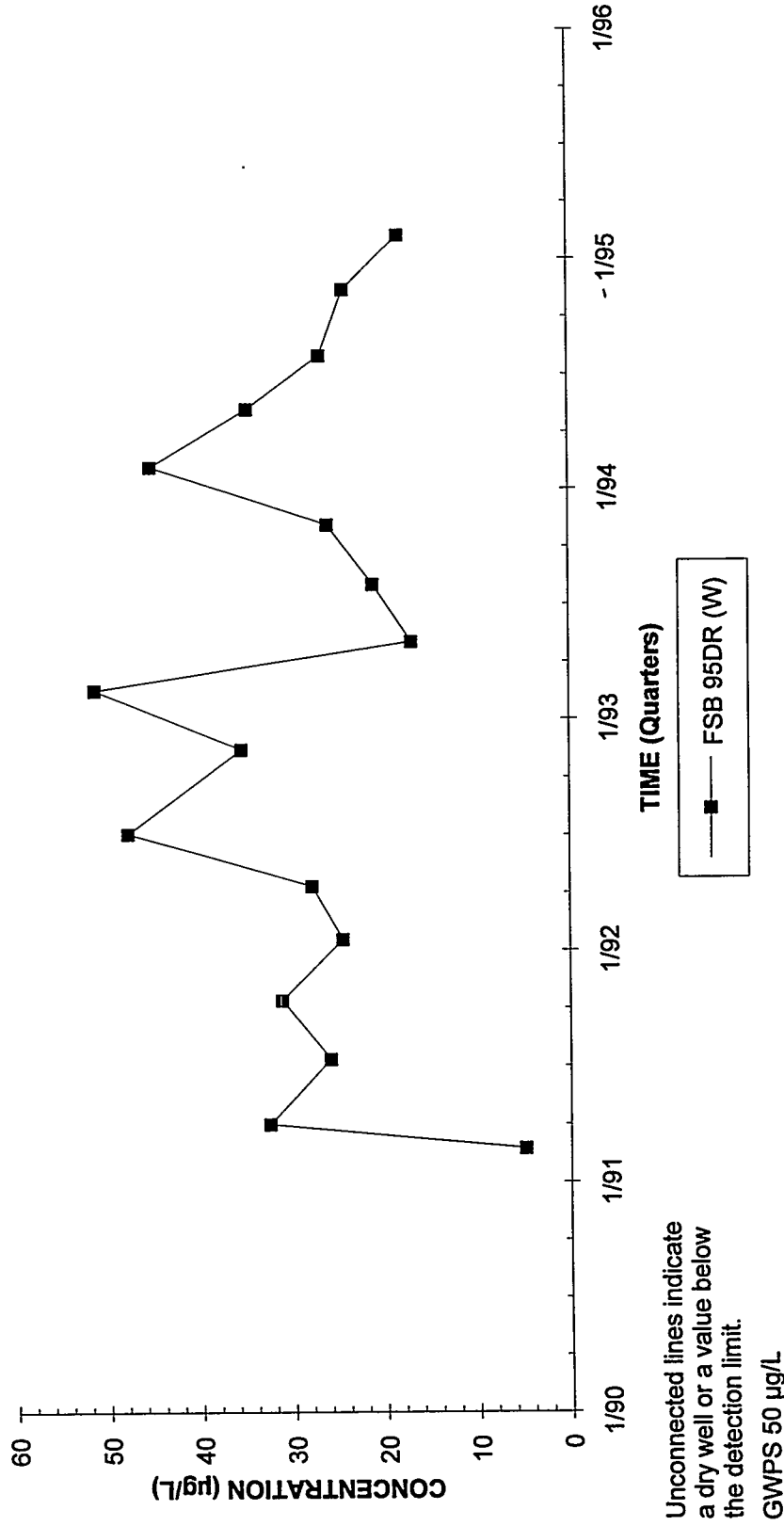
First and Second Quarters 1995

Lead Concentrations Well Cluster FSB 94



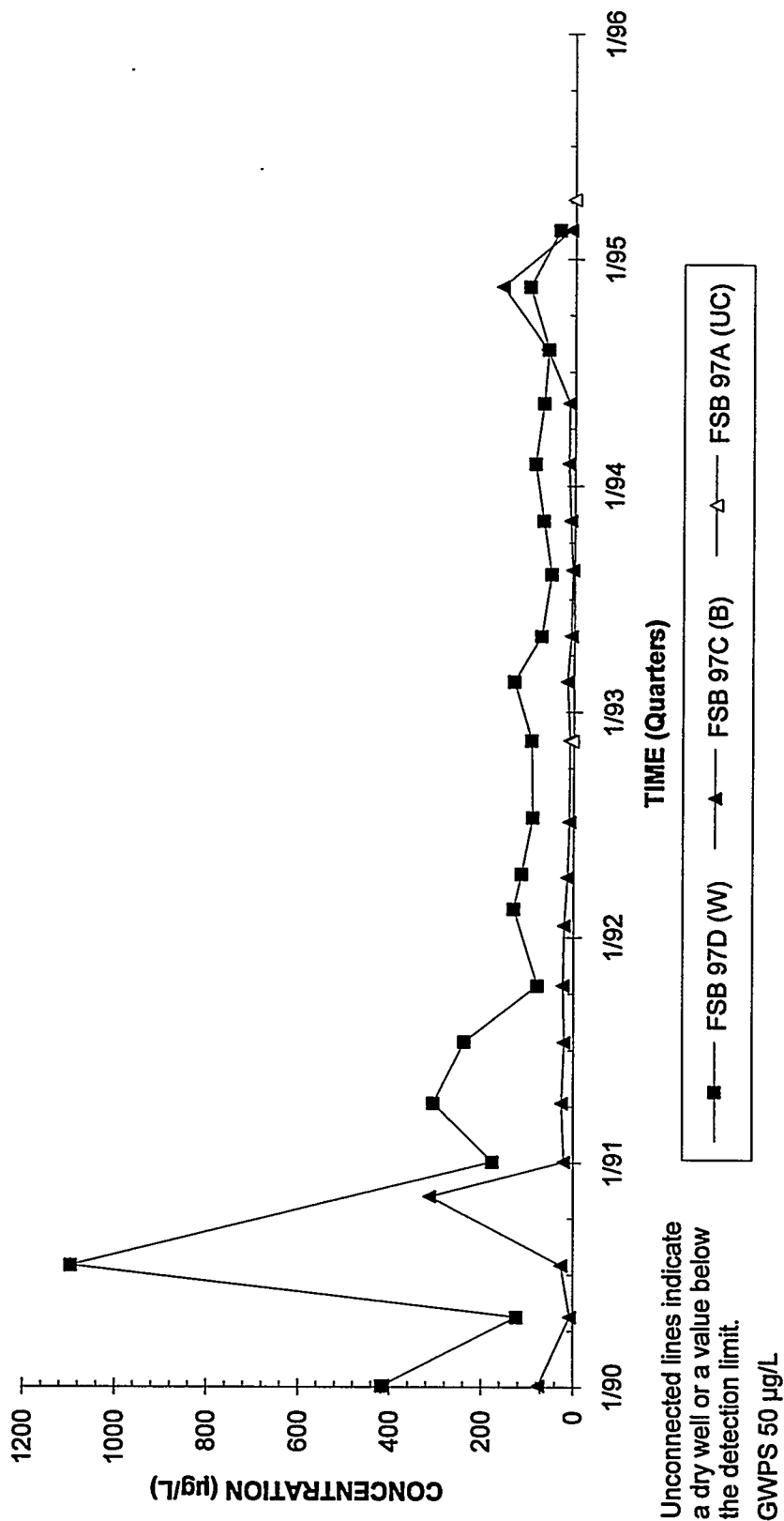
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Lead Concentrations Well FSB 95DR



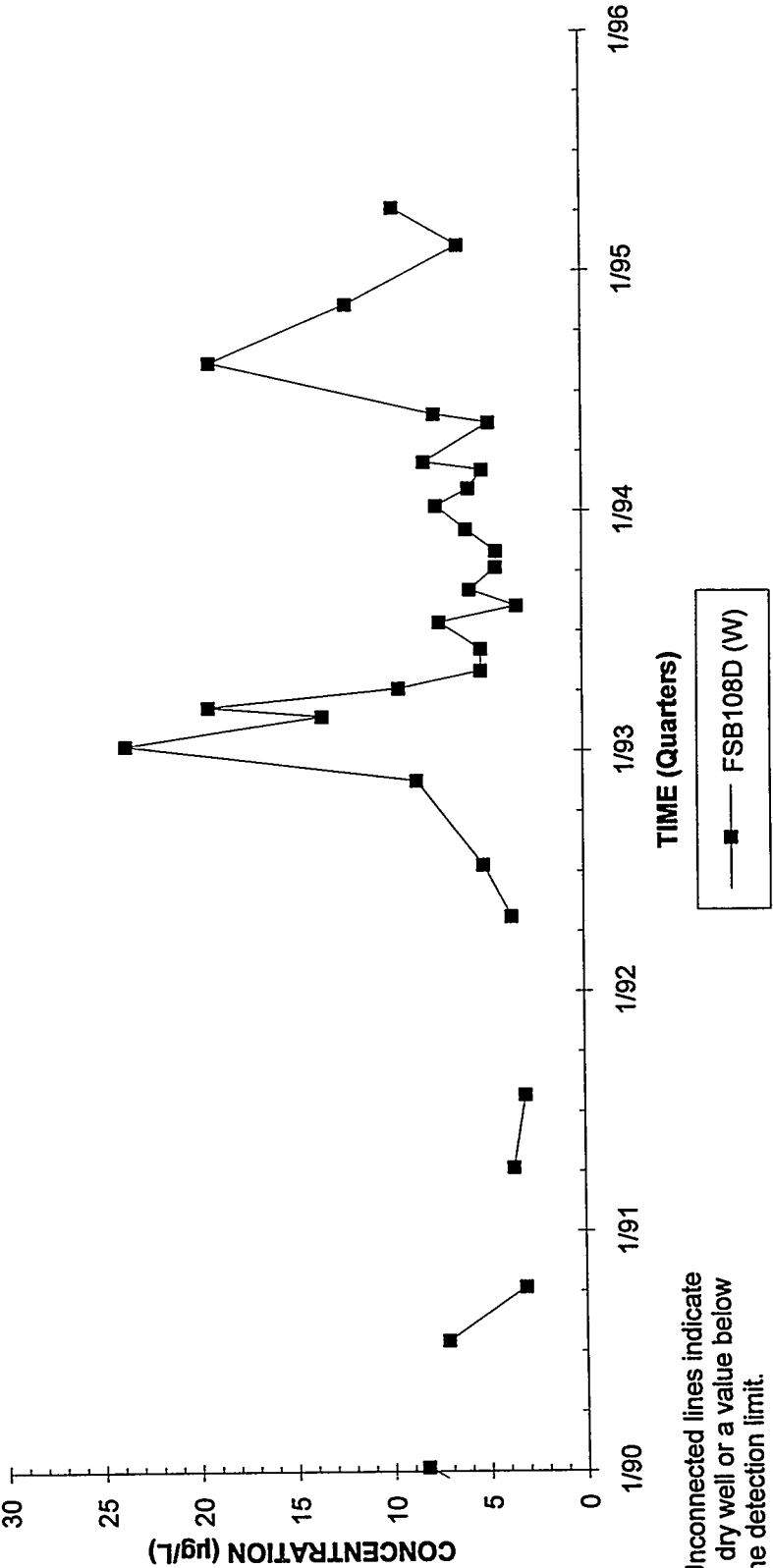
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Lead Concentrations Well Cluster FSB 97



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

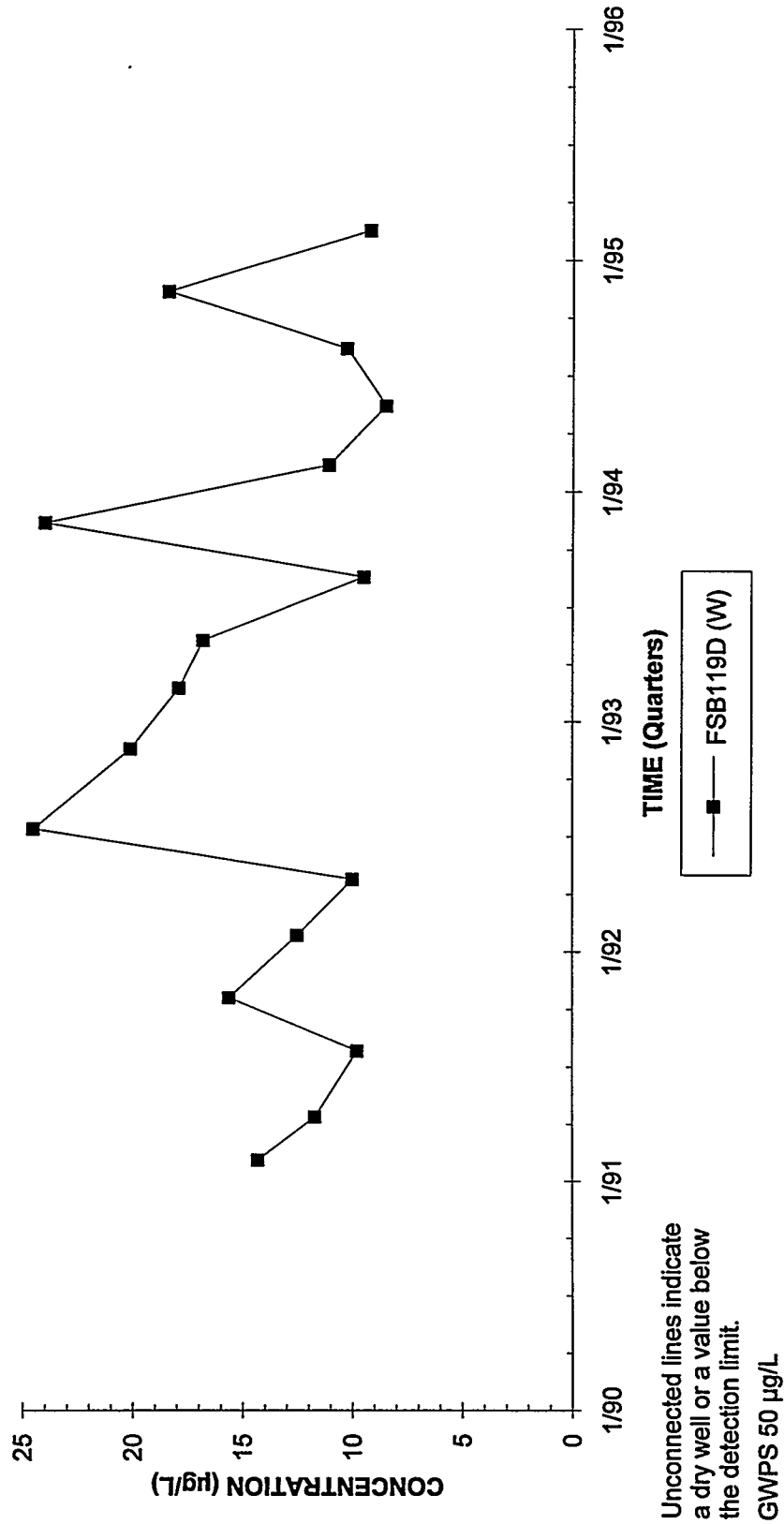
Lead Concentrations Well FSB108D



GWPS 50 µg/L

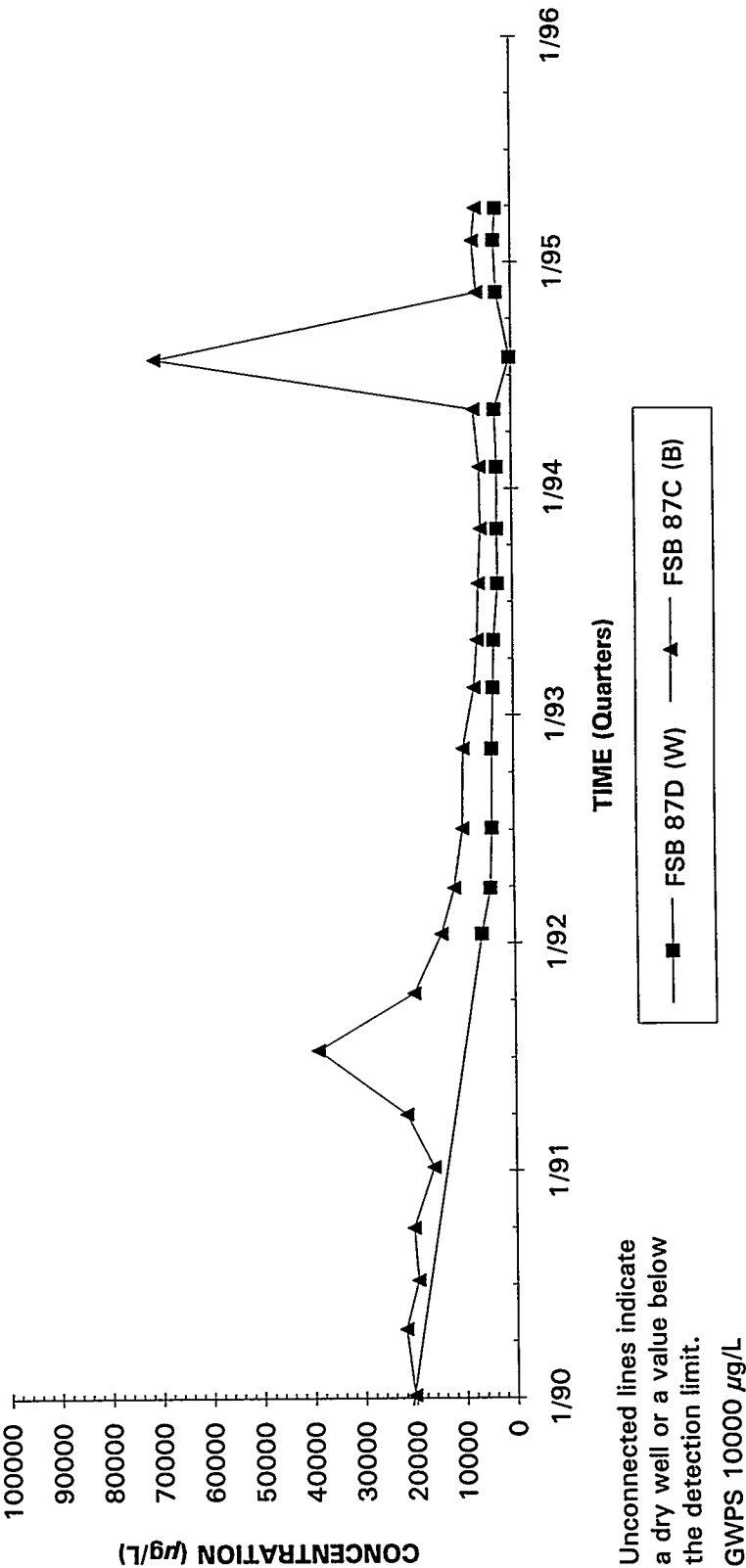
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Lead Concentrations Well FSB119D



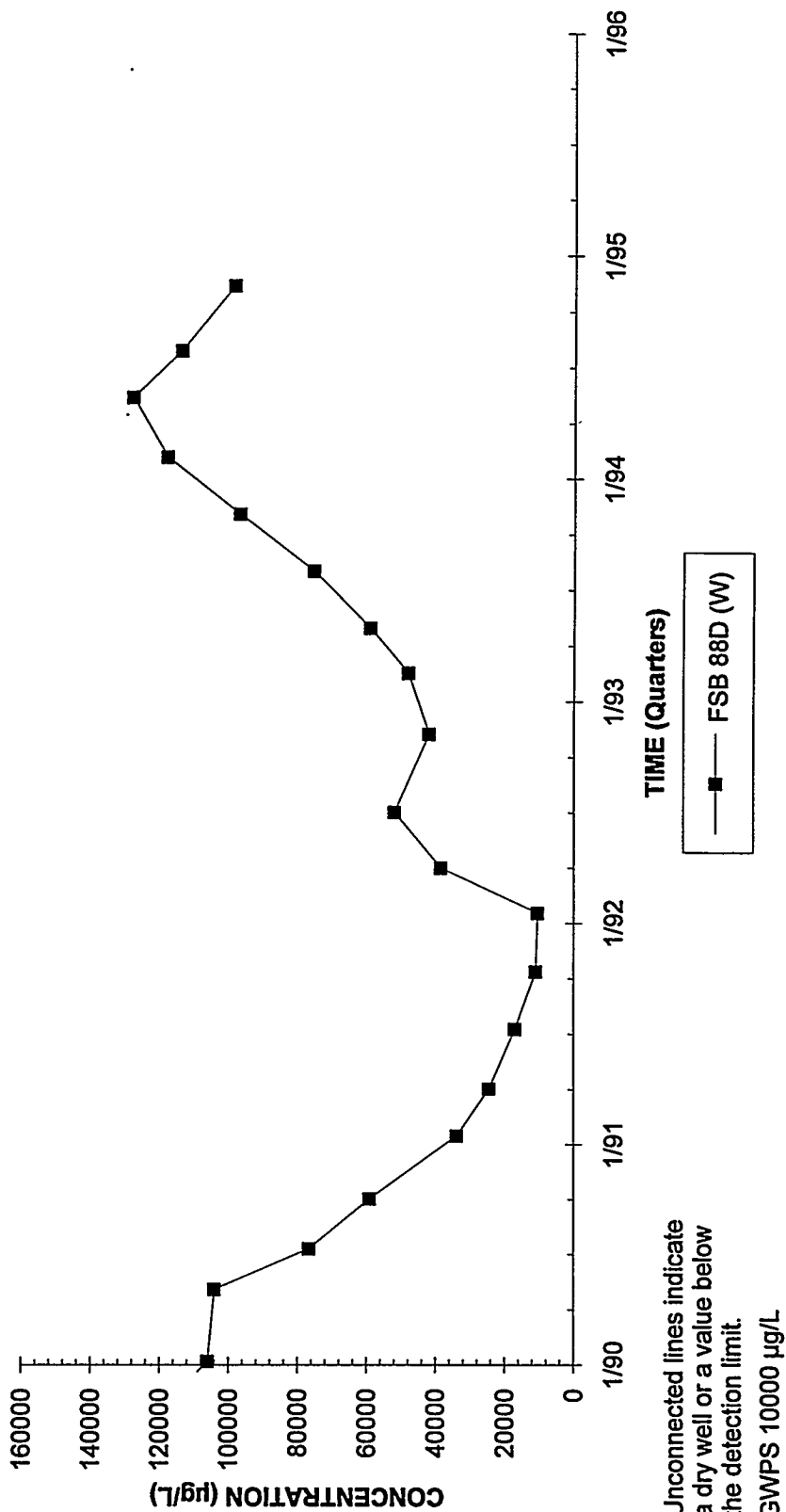
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations
Well Cluster FSB 87



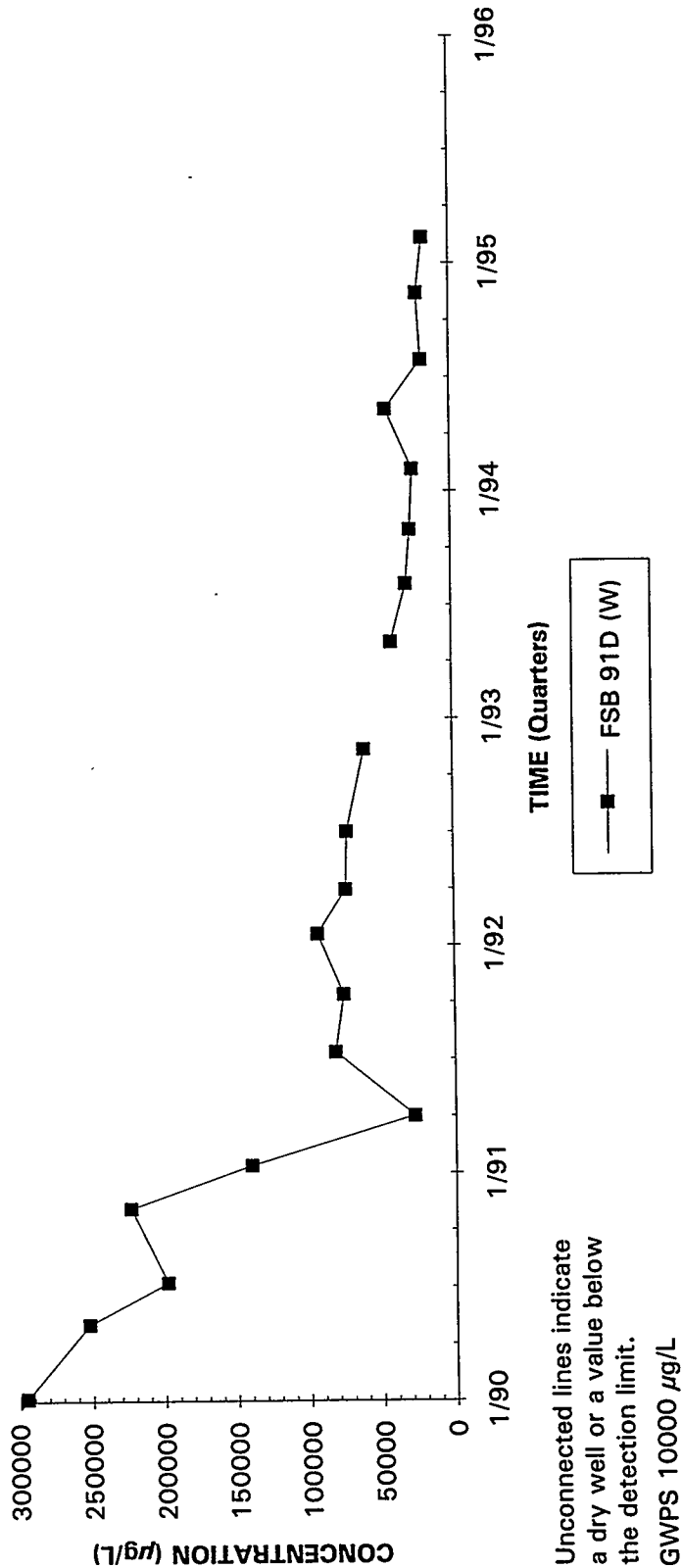
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Nitrate Concentrations Well FSB 88D



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

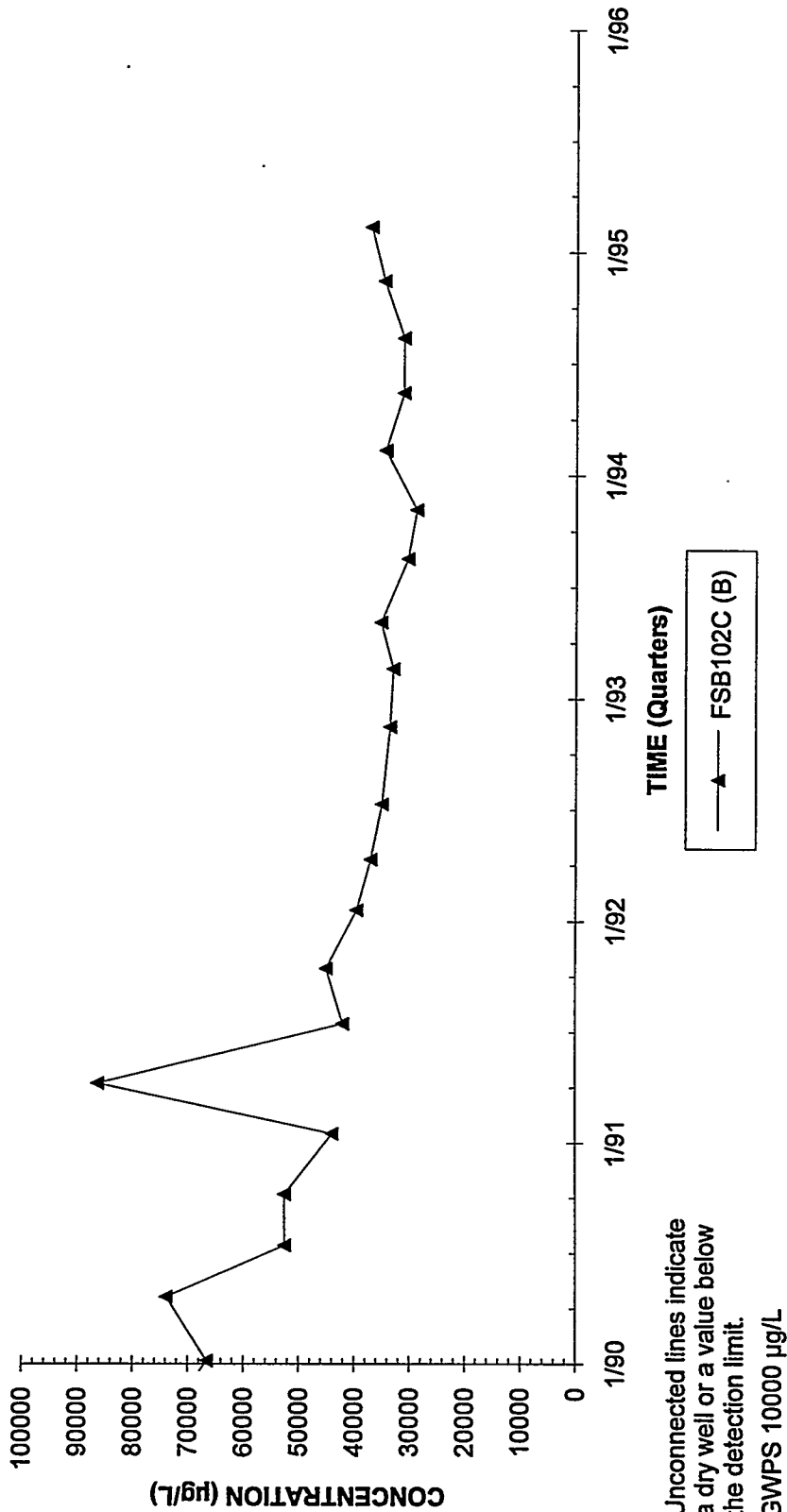
Nitrate Concentrations Well FSB 91D



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

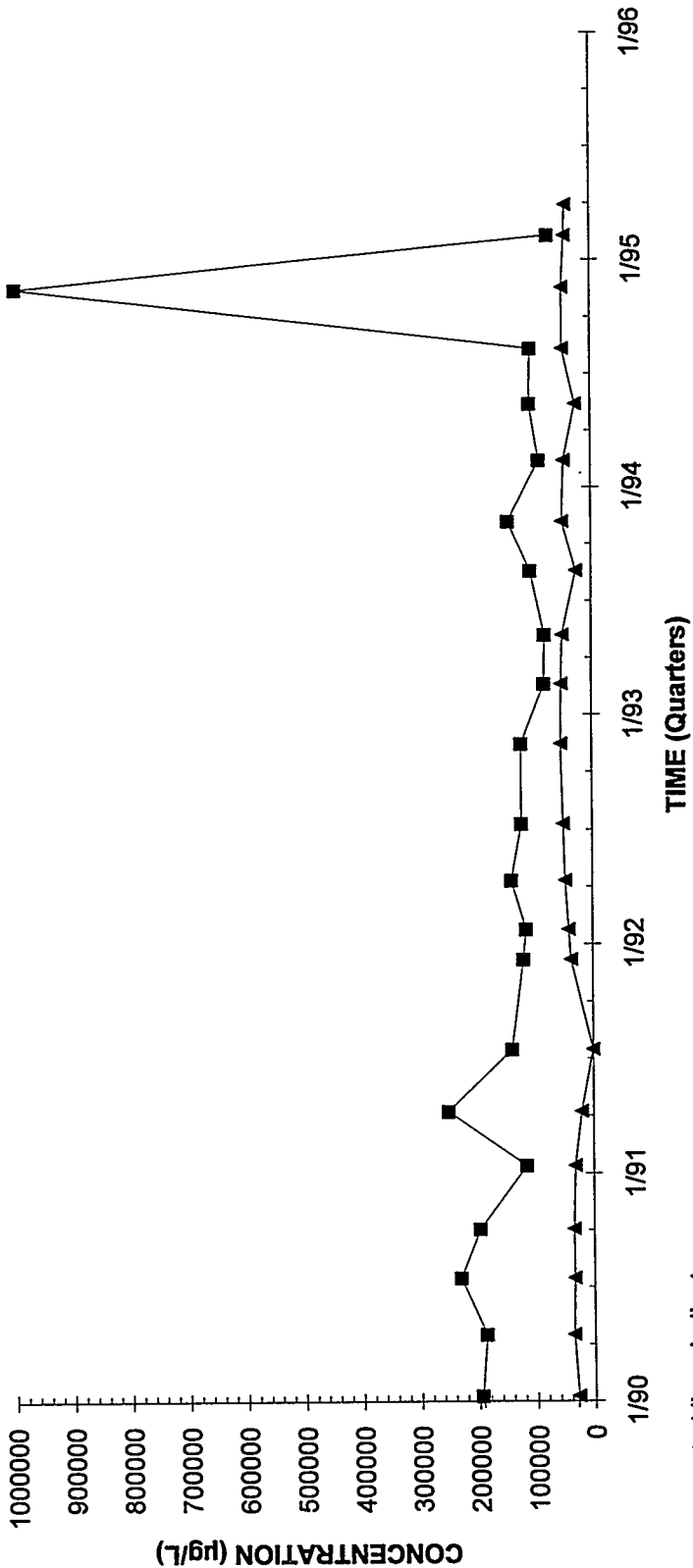
First and Second Quarters 1995

Nitrate 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)

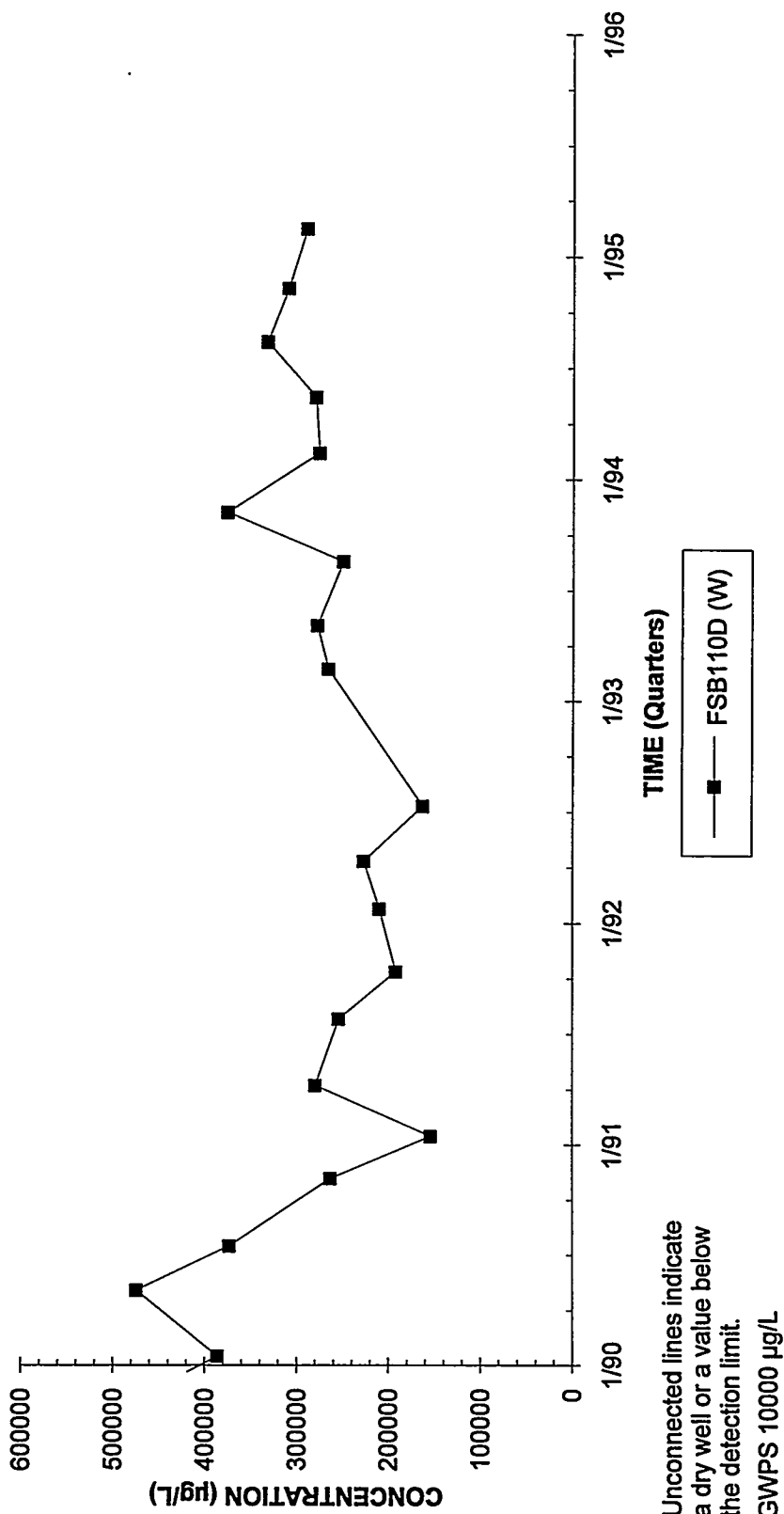
Nitrate Concentrations Well Cluster FSB104



Unconnected lines indicate a dry well or a value below the detection limit.
GWPS 10000 µg/L

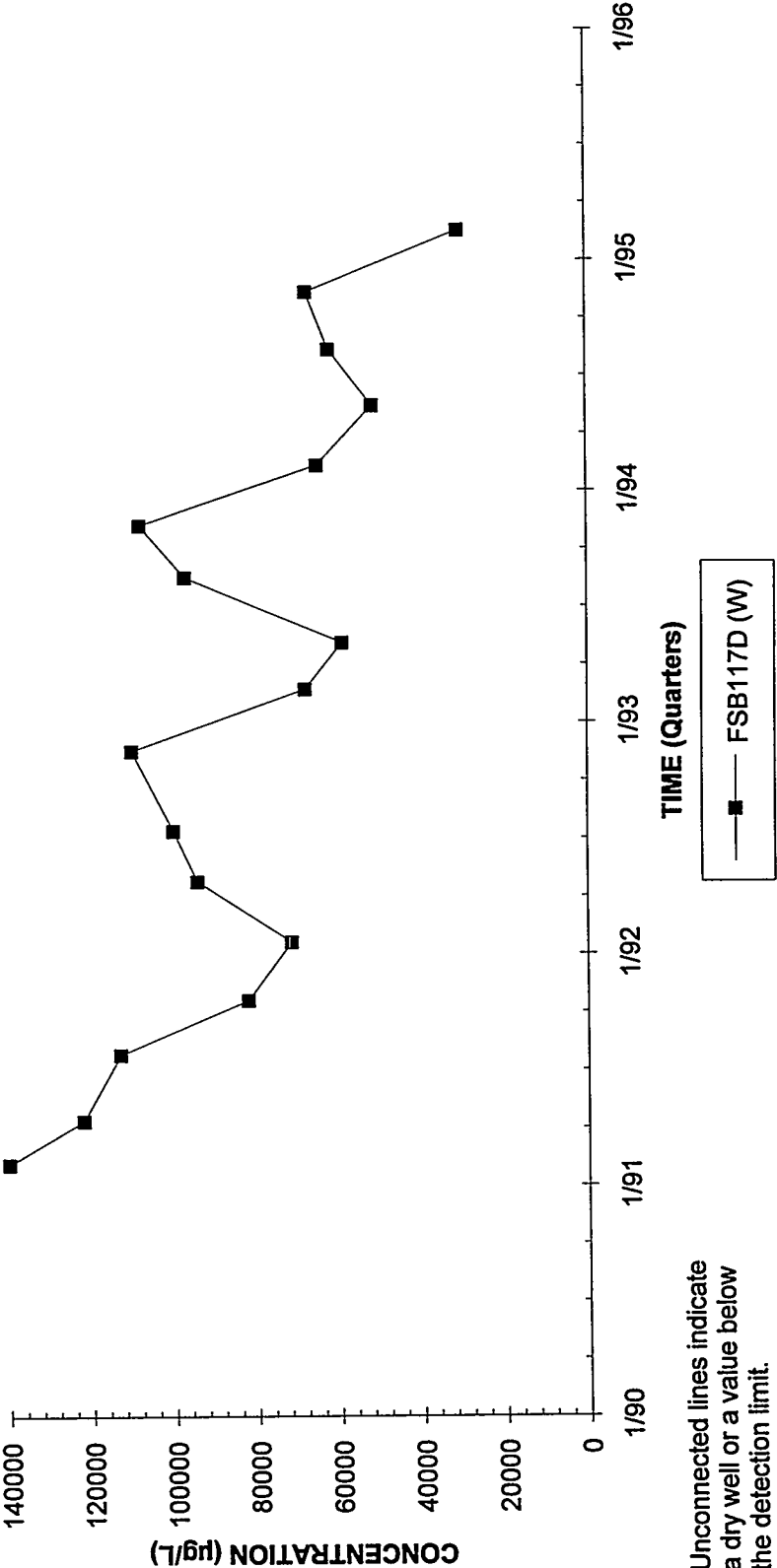
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations Well FSB110D



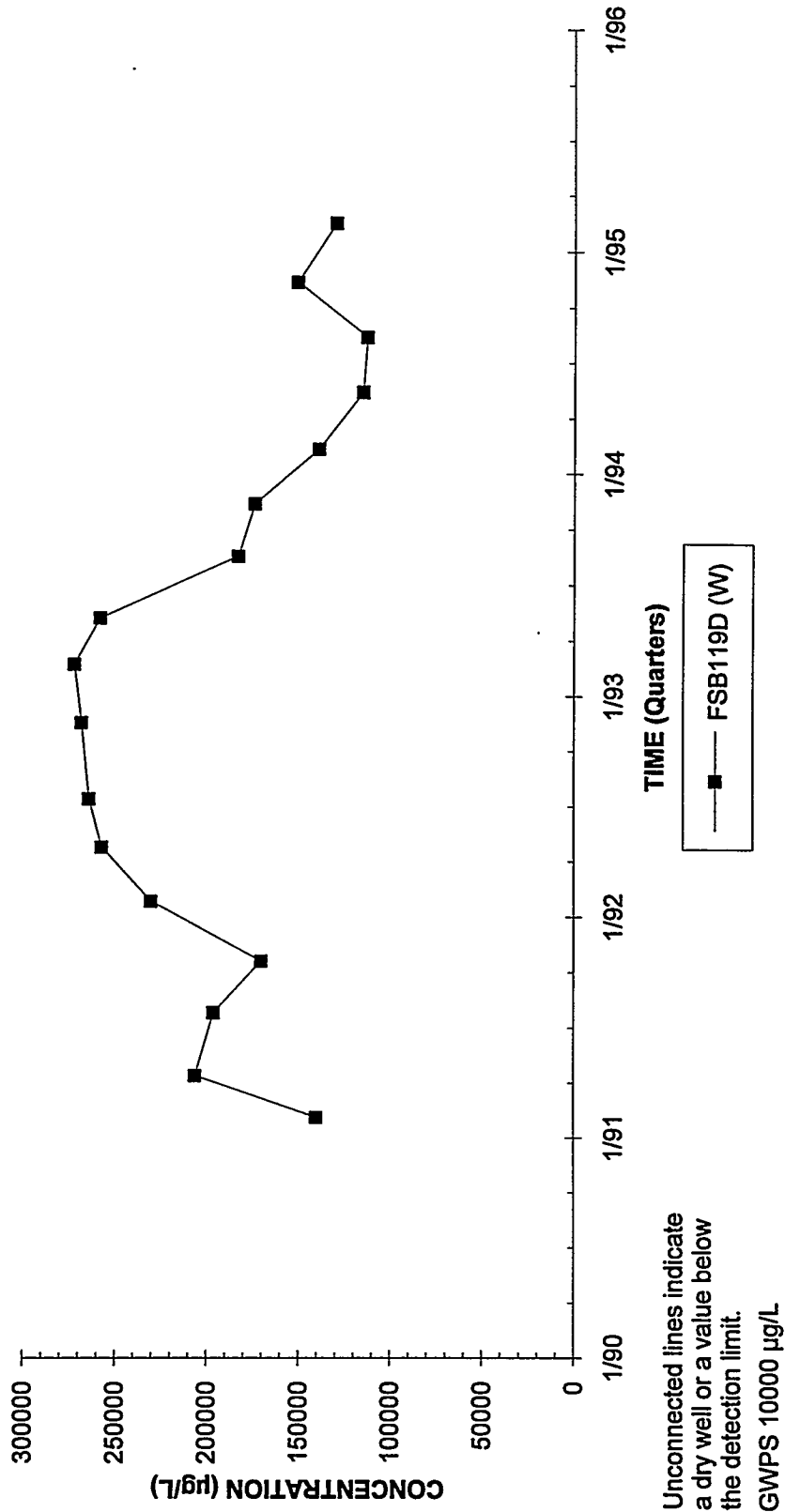
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nitrate Concentrations
Well FSB117D



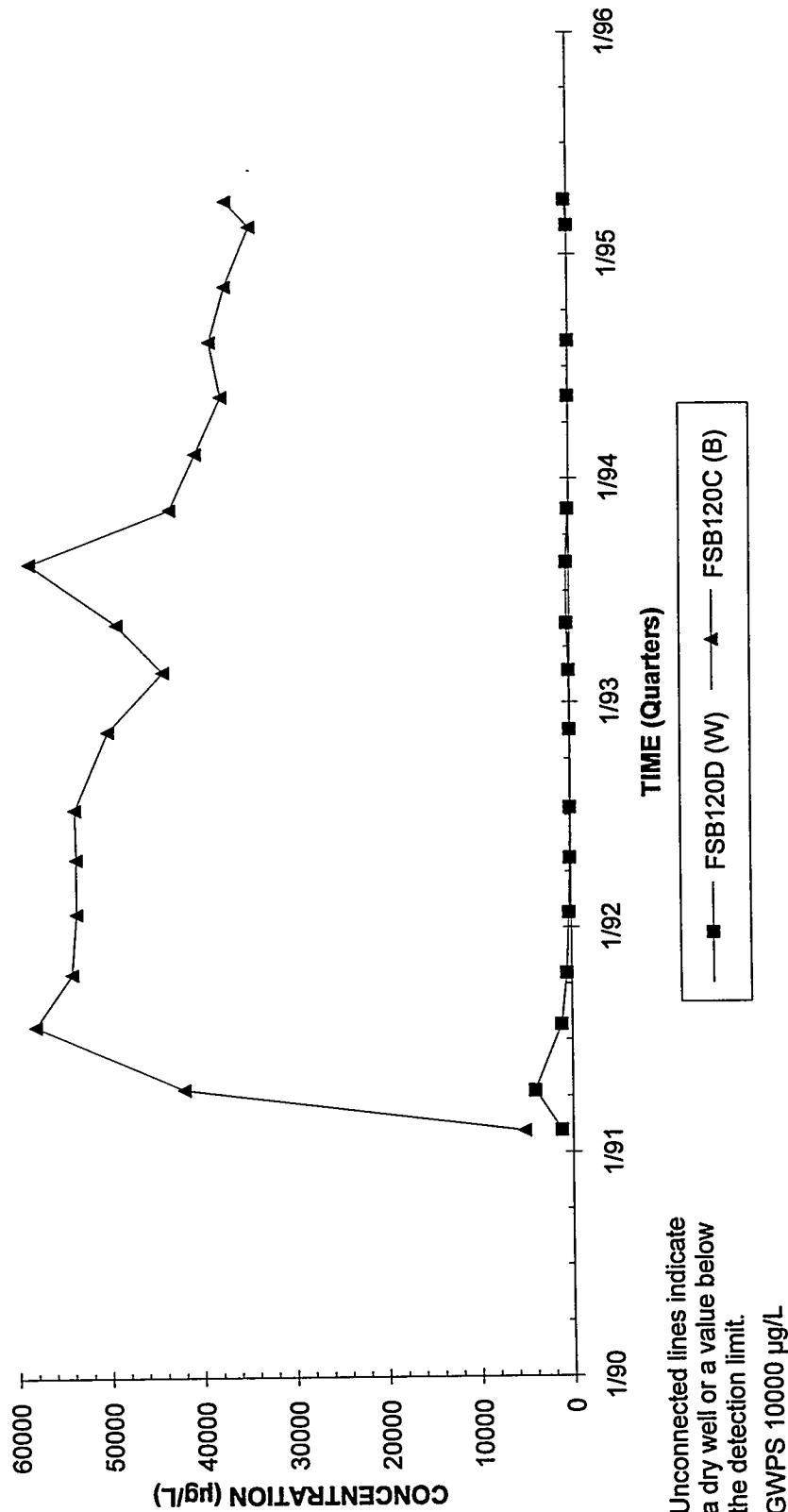
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

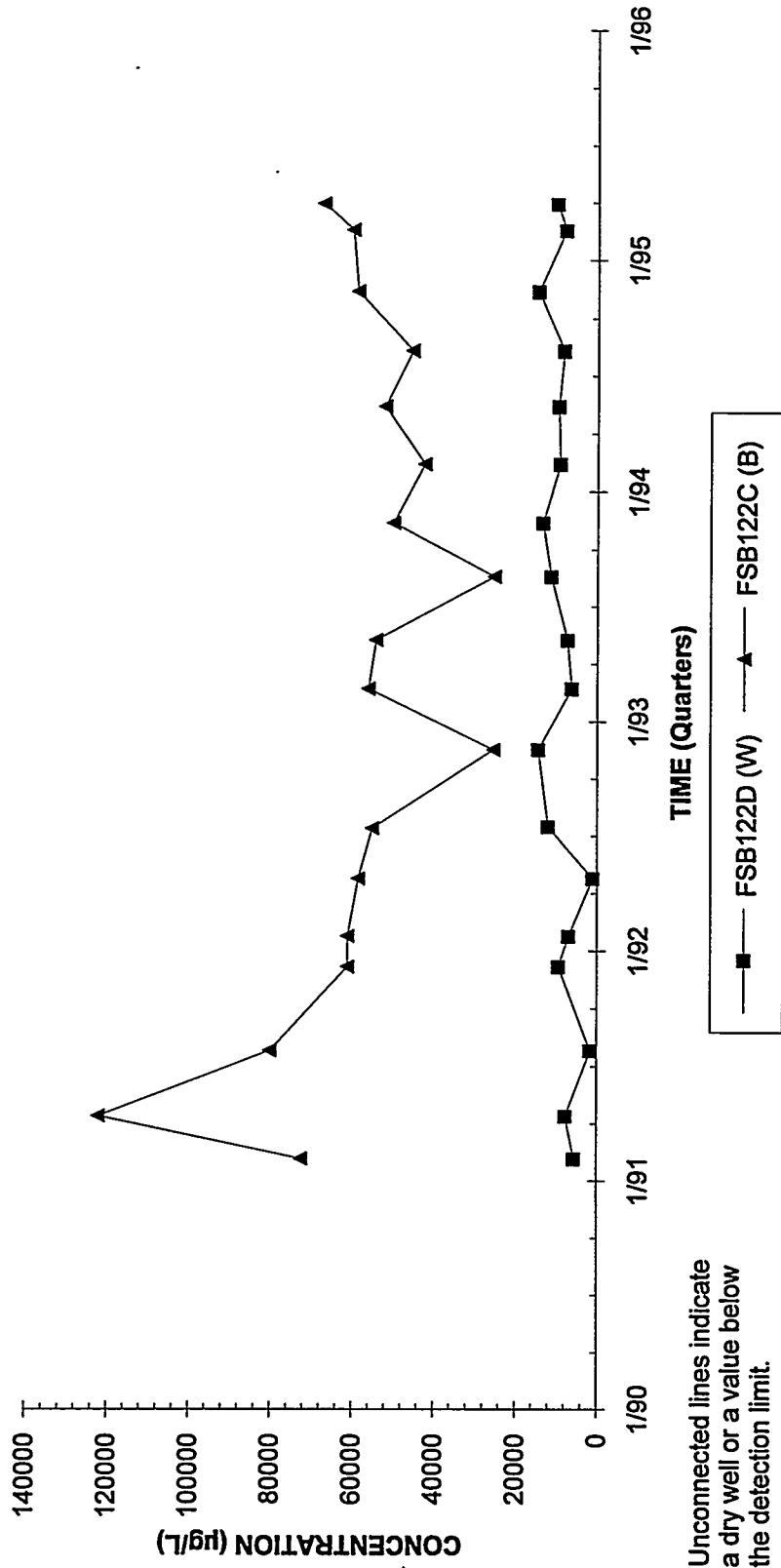
Nitrate Concentrations Well Cluster FSB120



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

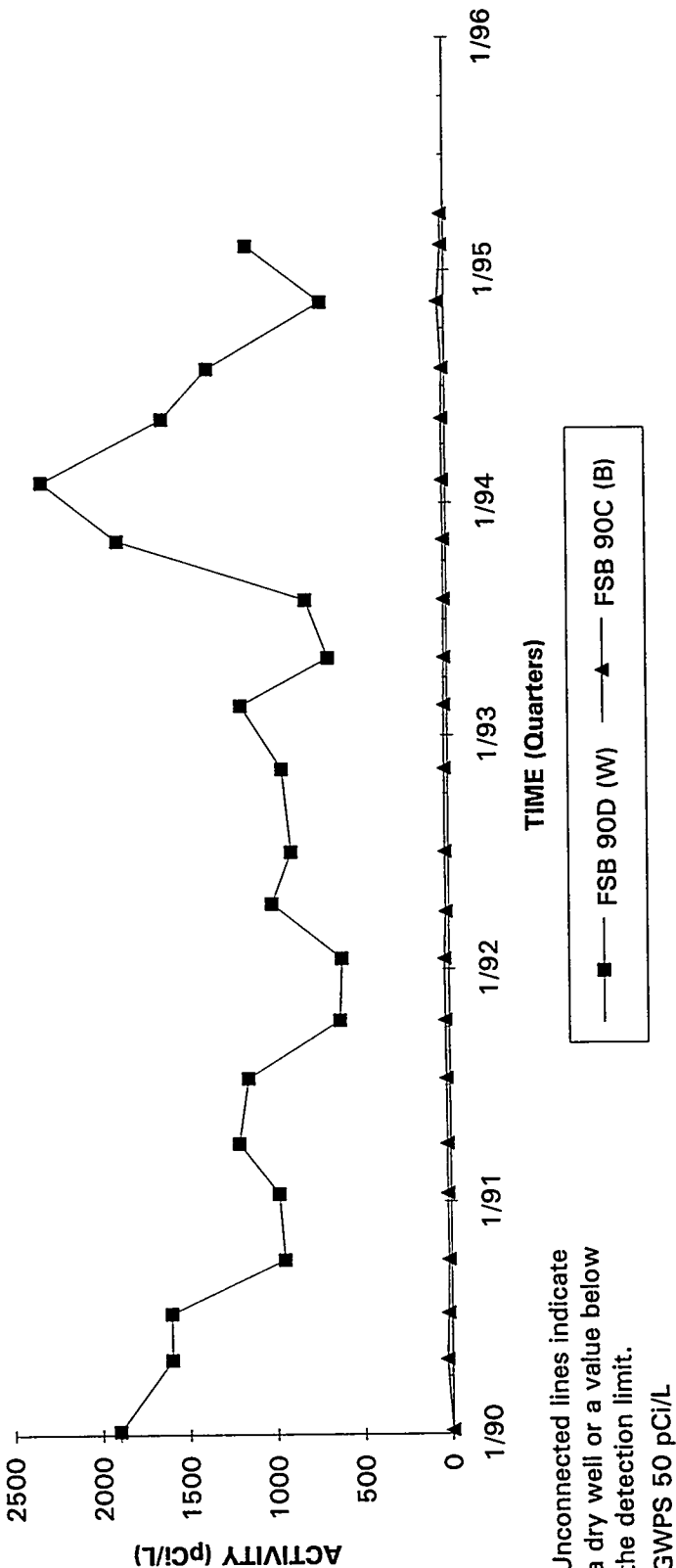
First and Second Quarters 1995

Nitrate Concentrations Well Cluster FSB122



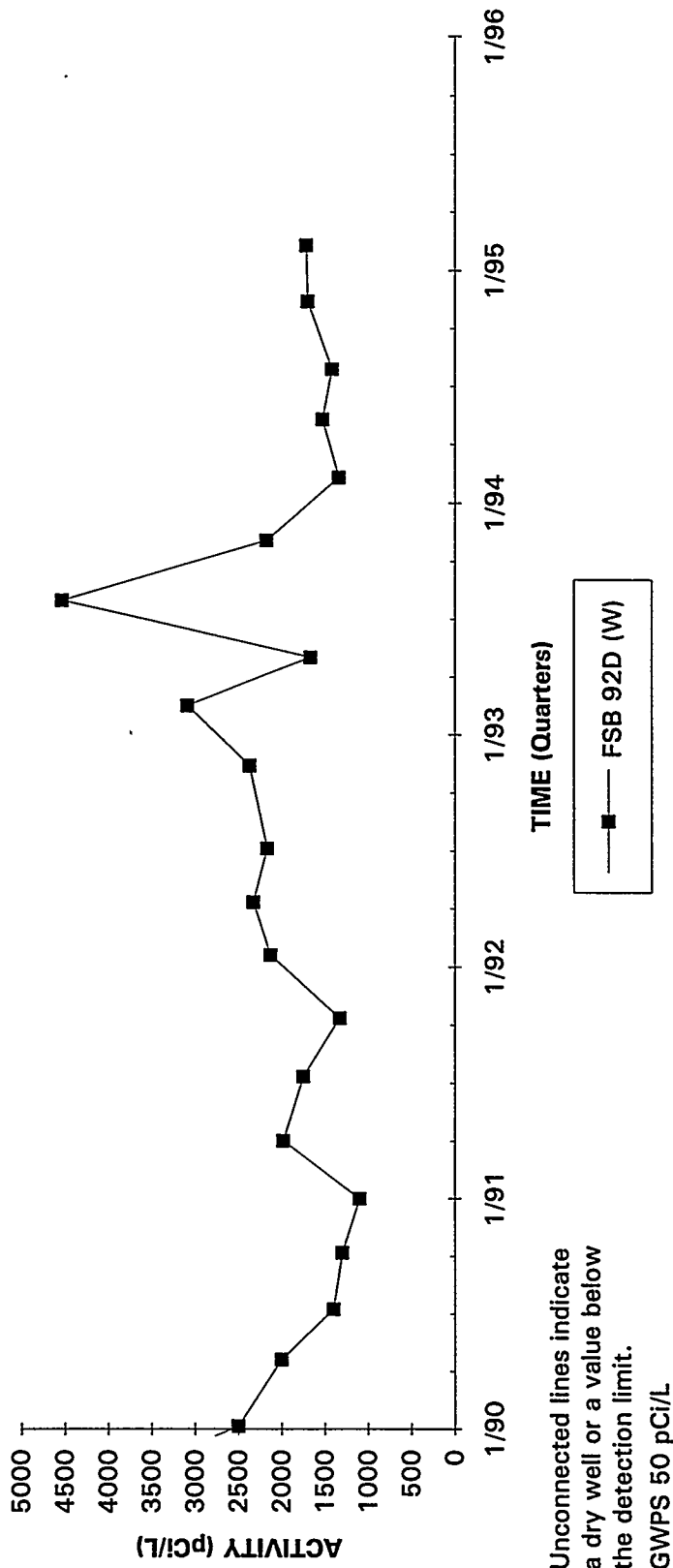
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 90



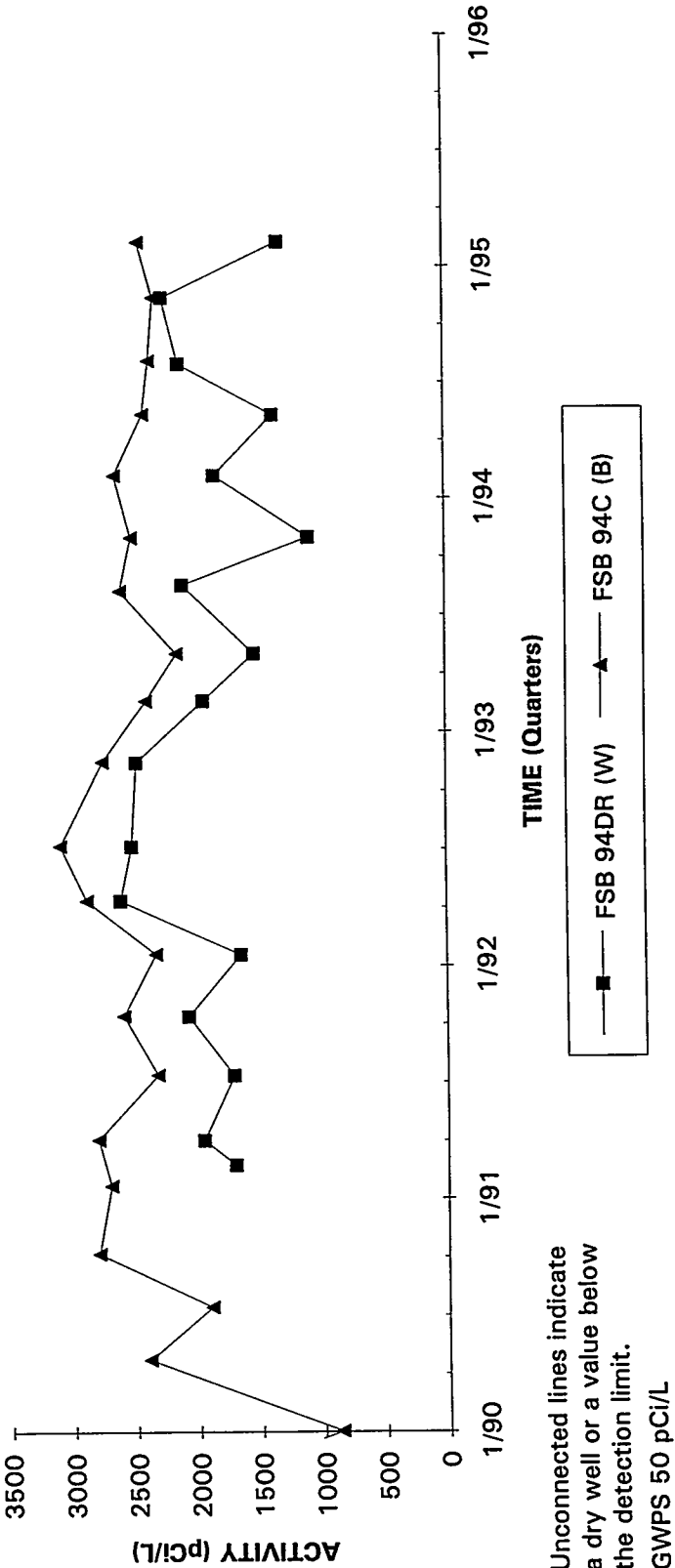
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

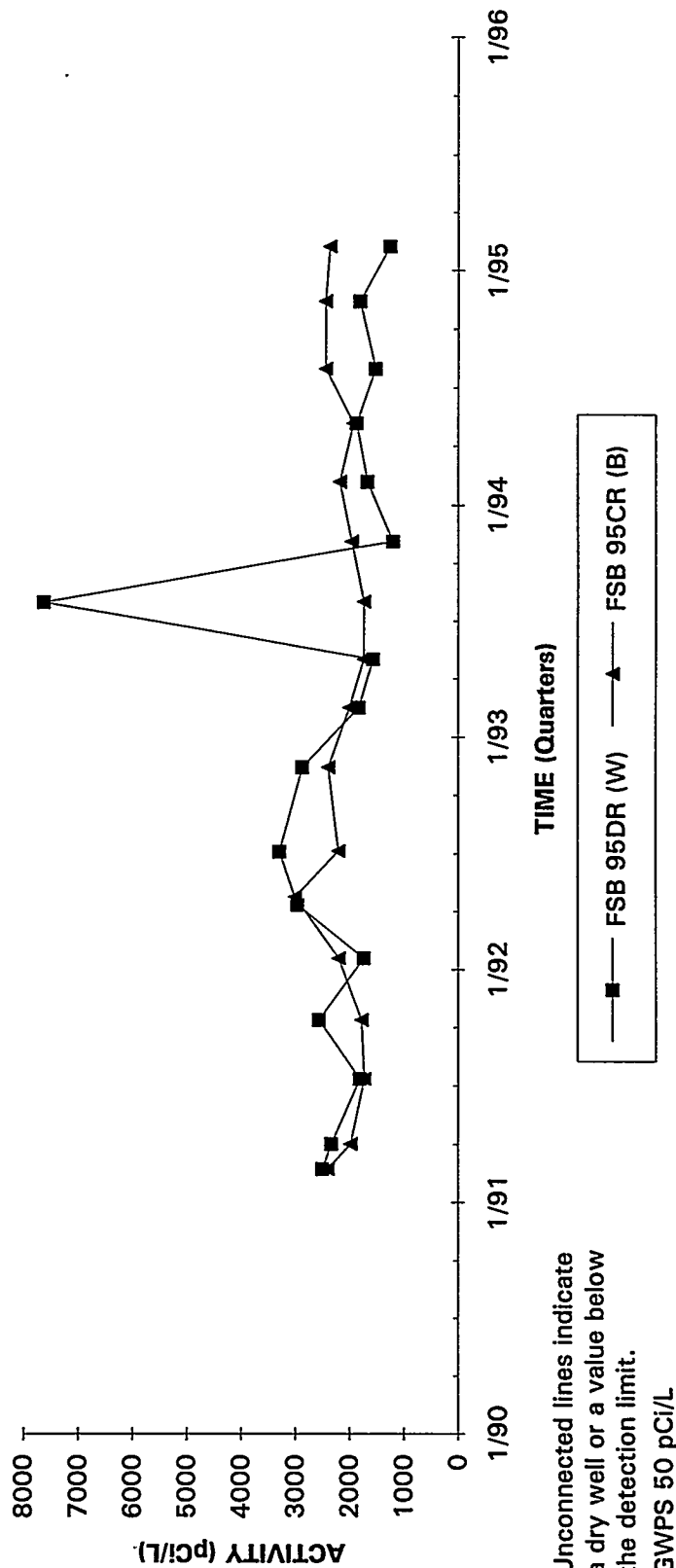
Nonvolatile Beta Activities
Well Cluster FSB 94



Unconnected lines indicate
a dry well or a value below
the detection limit.
GWPS 50 pCi/L

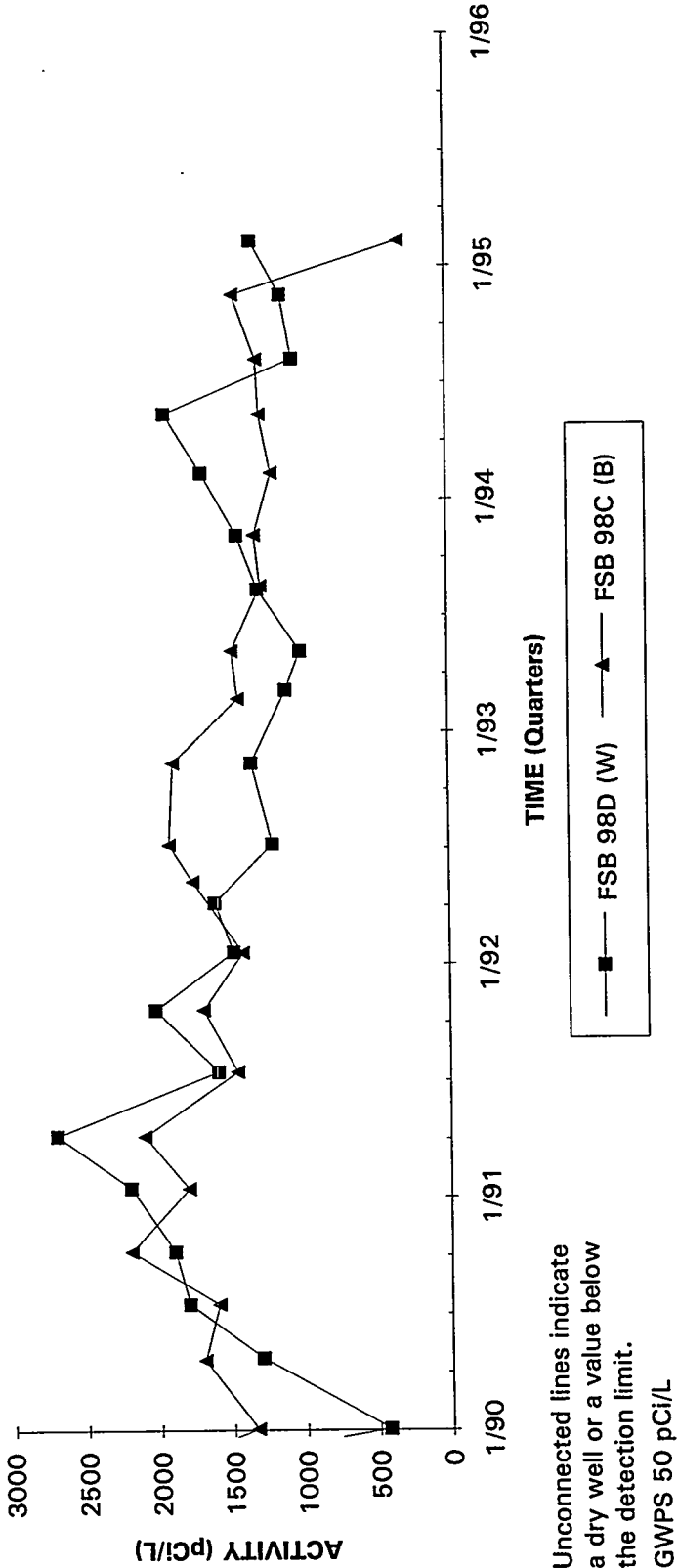
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 95



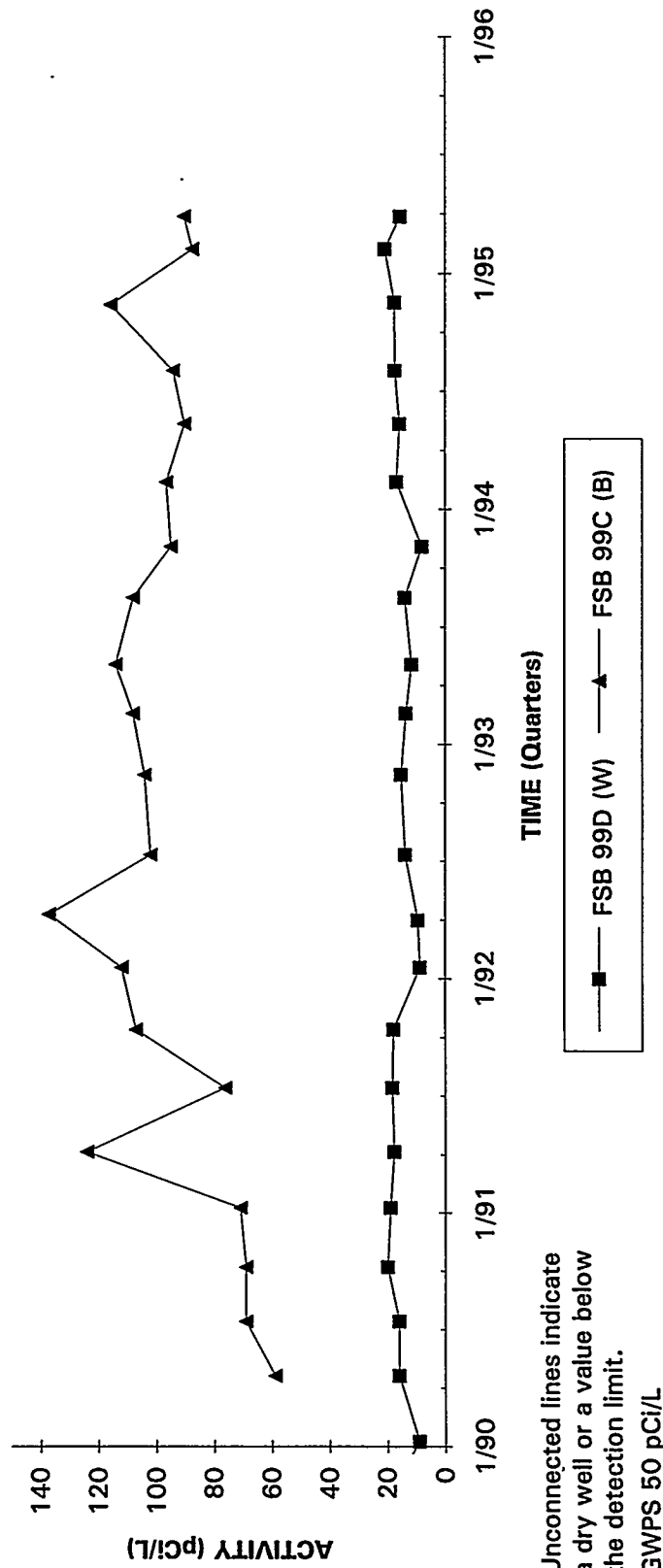
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 98



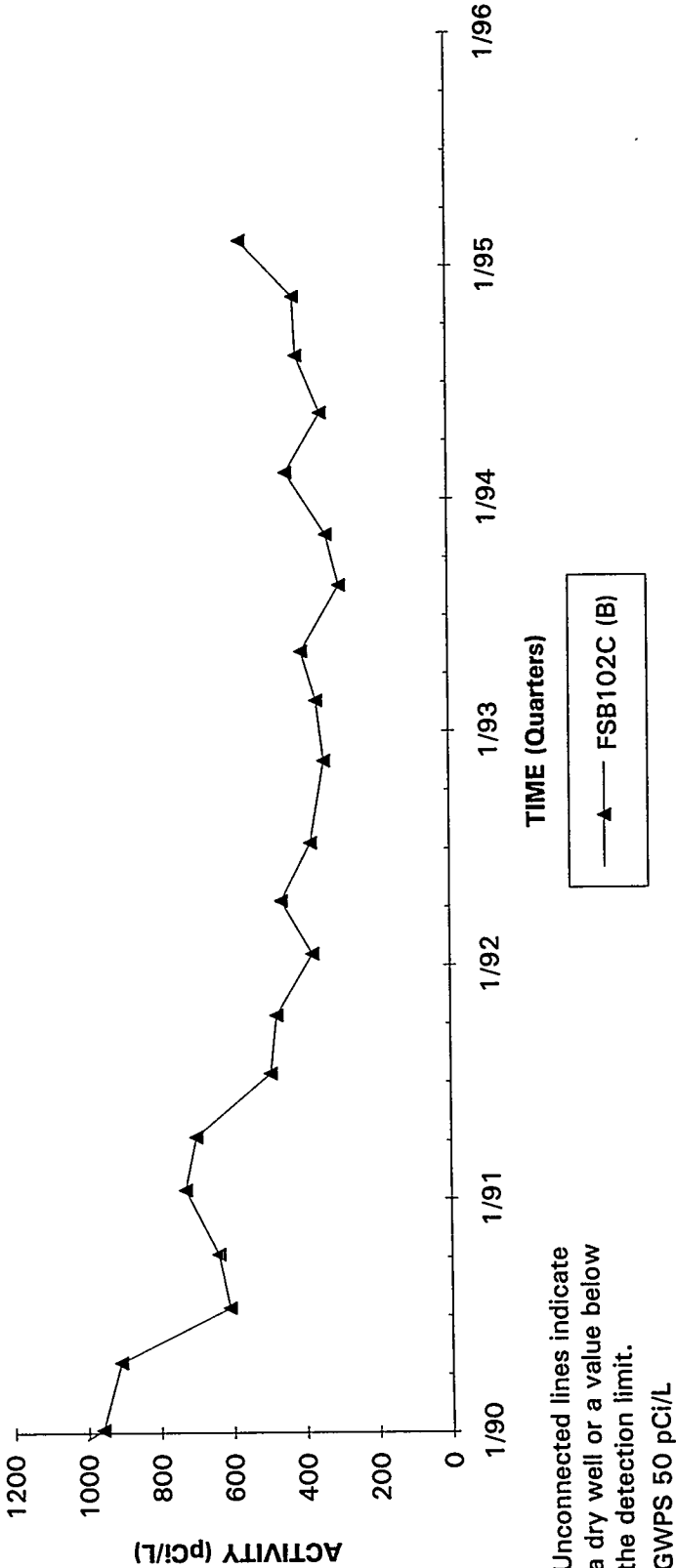
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB 99



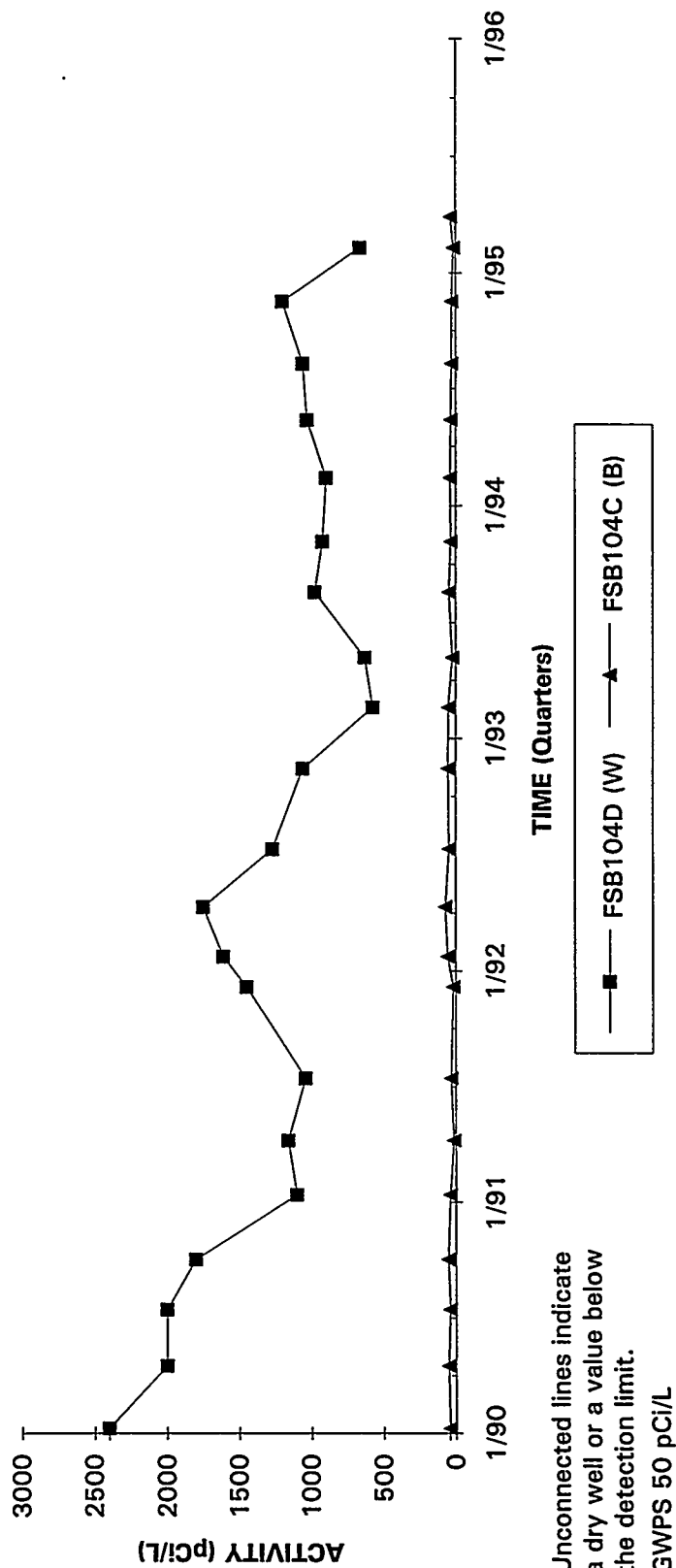
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well FSB102C



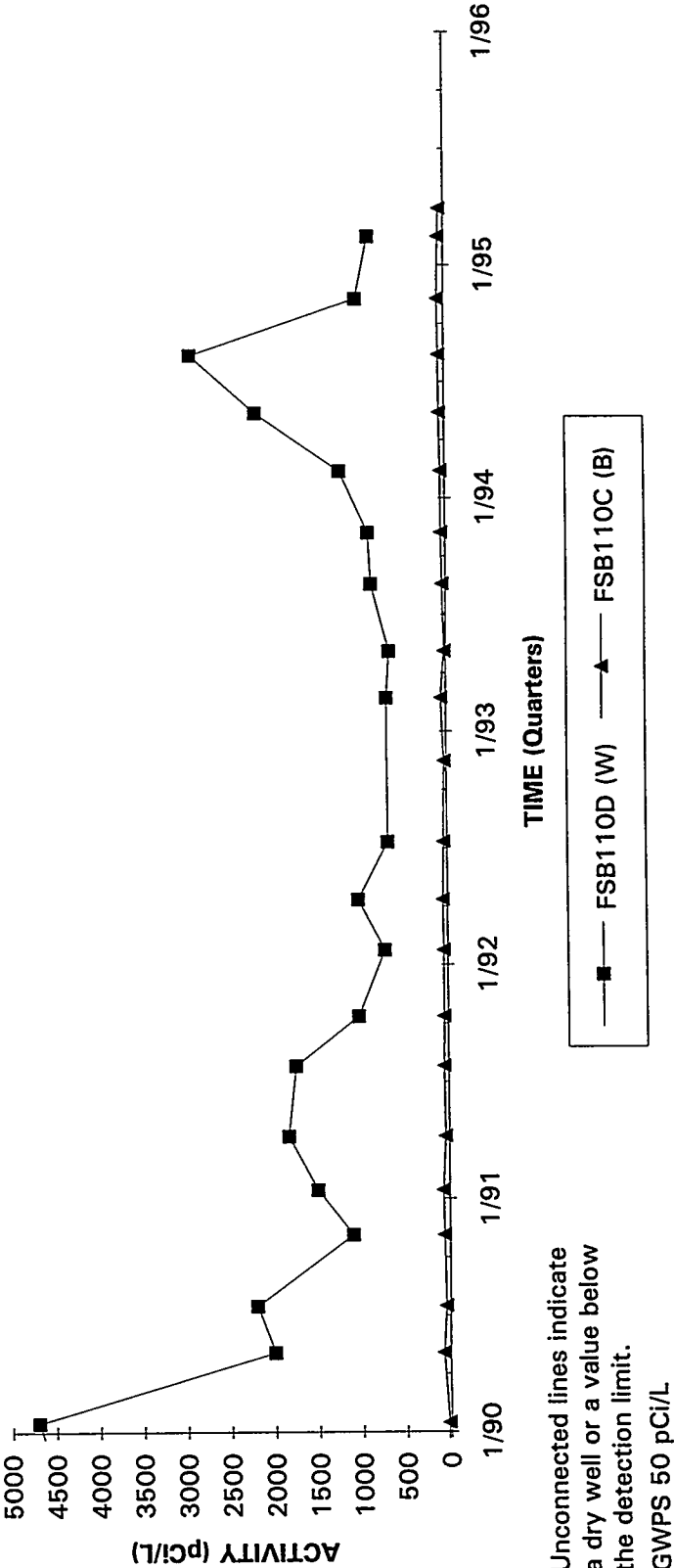
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

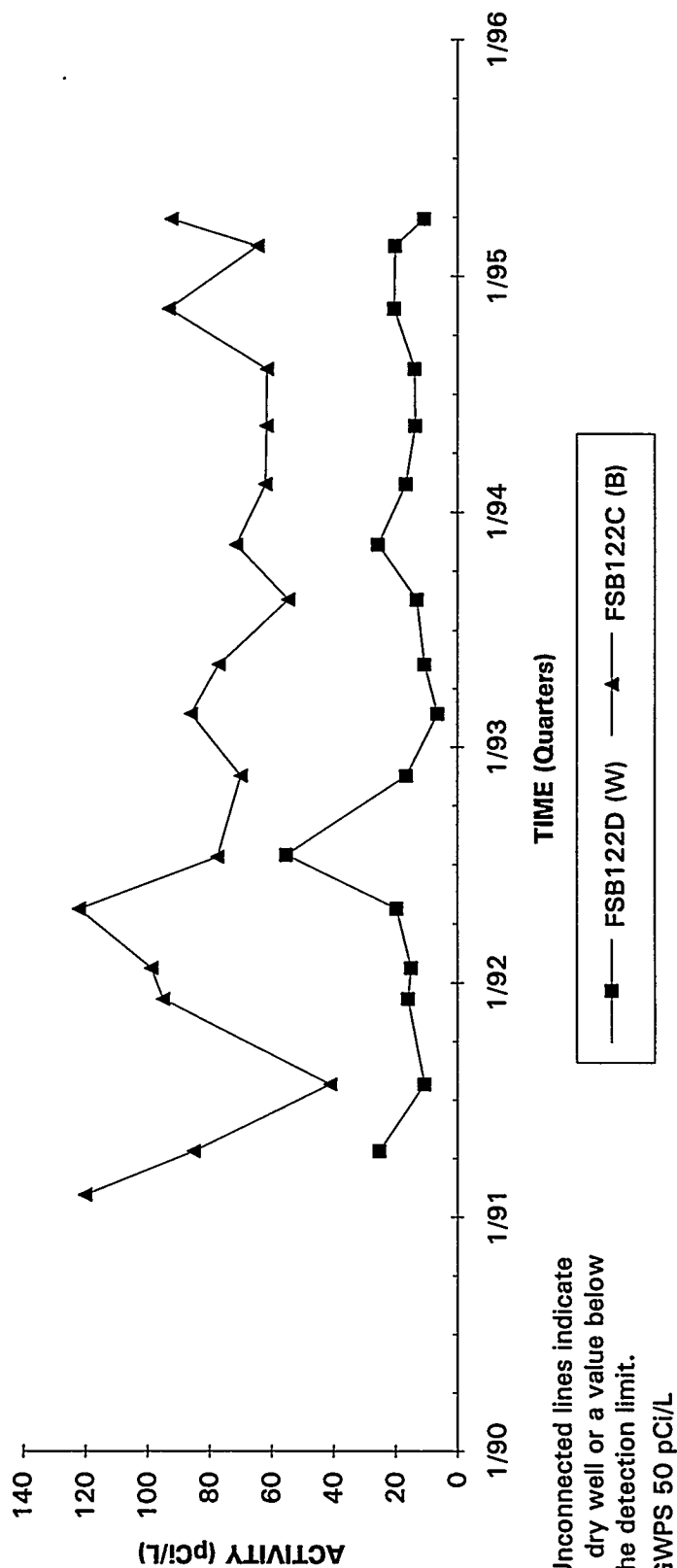
Nonvolatile Beta Activities
Well Cluster FSB110



Unconnected lines indicate a dry well or a value below the detection limit.
GWPS 50 pCi/L

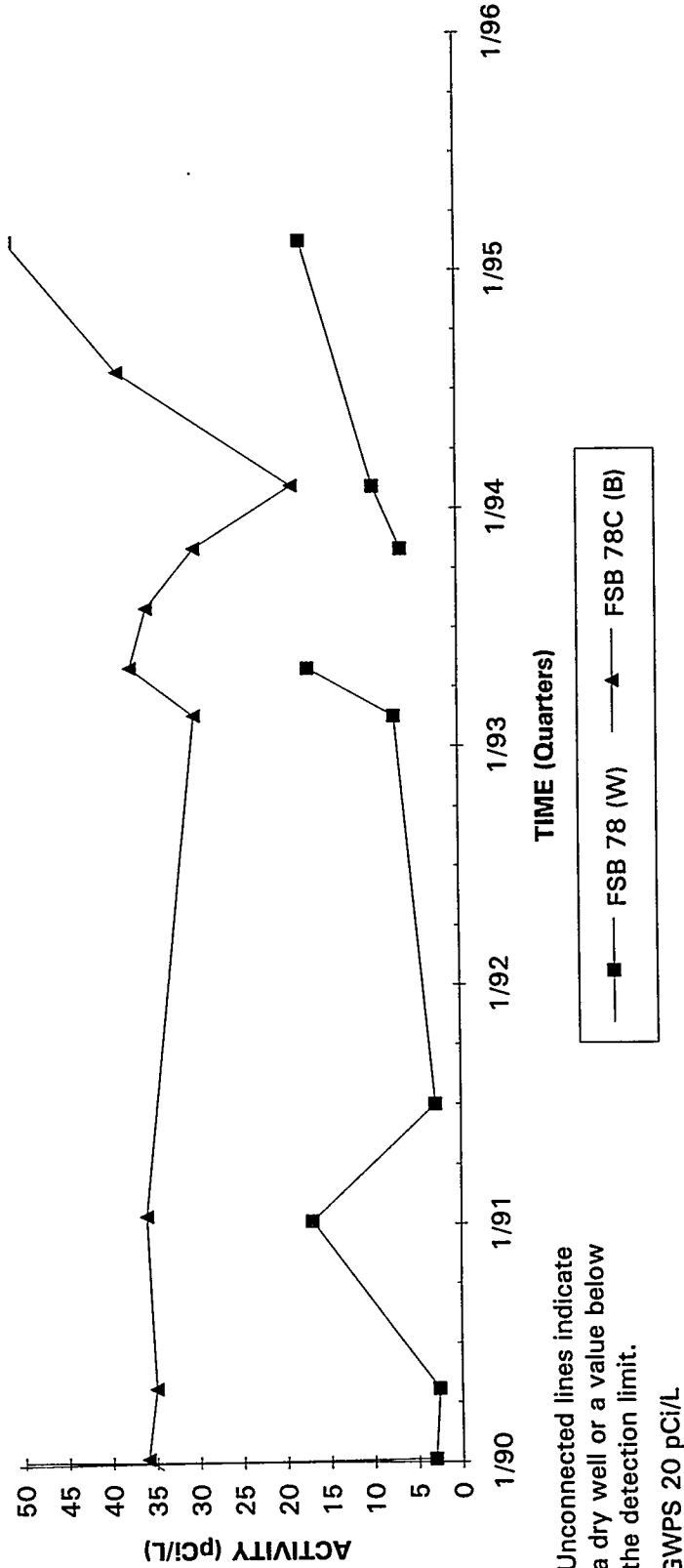
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Nonvolatile Beta Activities Well Cluster FSB122



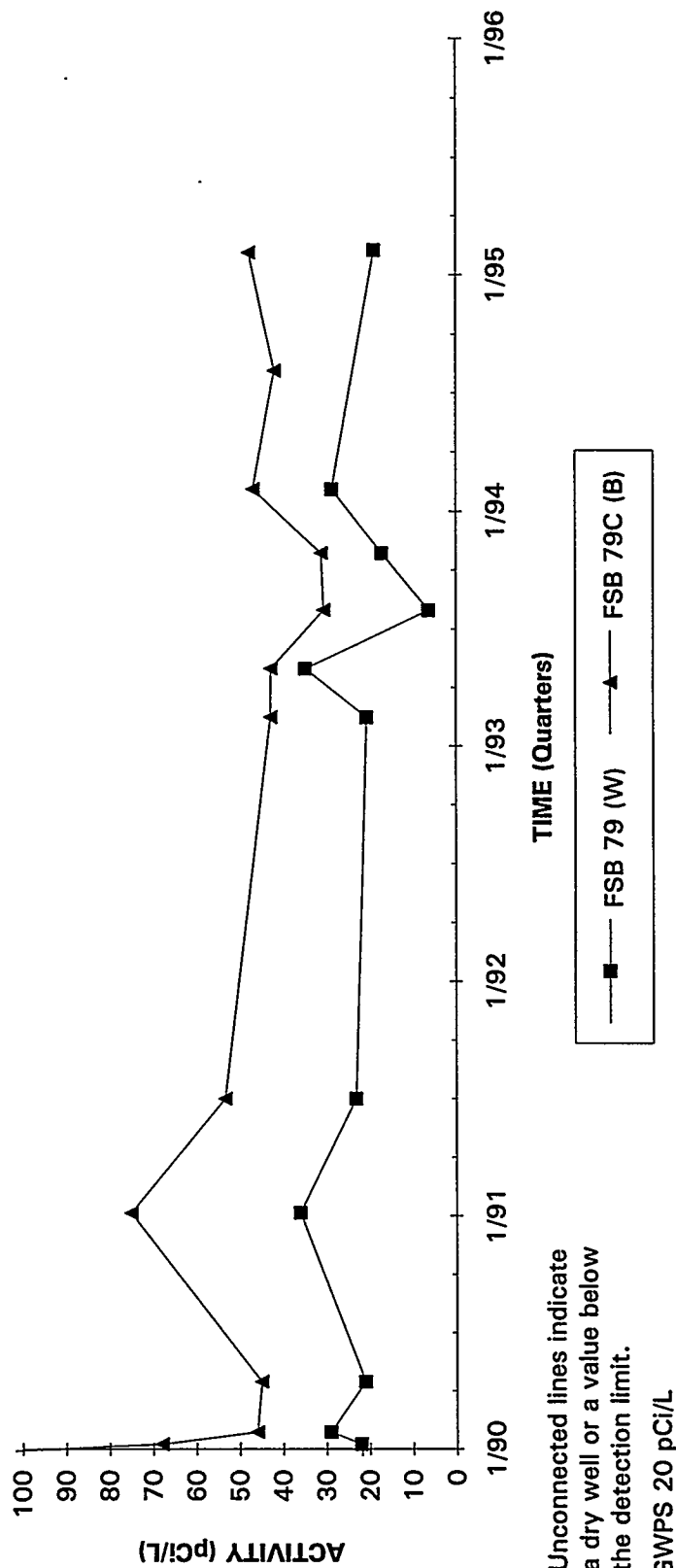
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well Cluster FSB 78



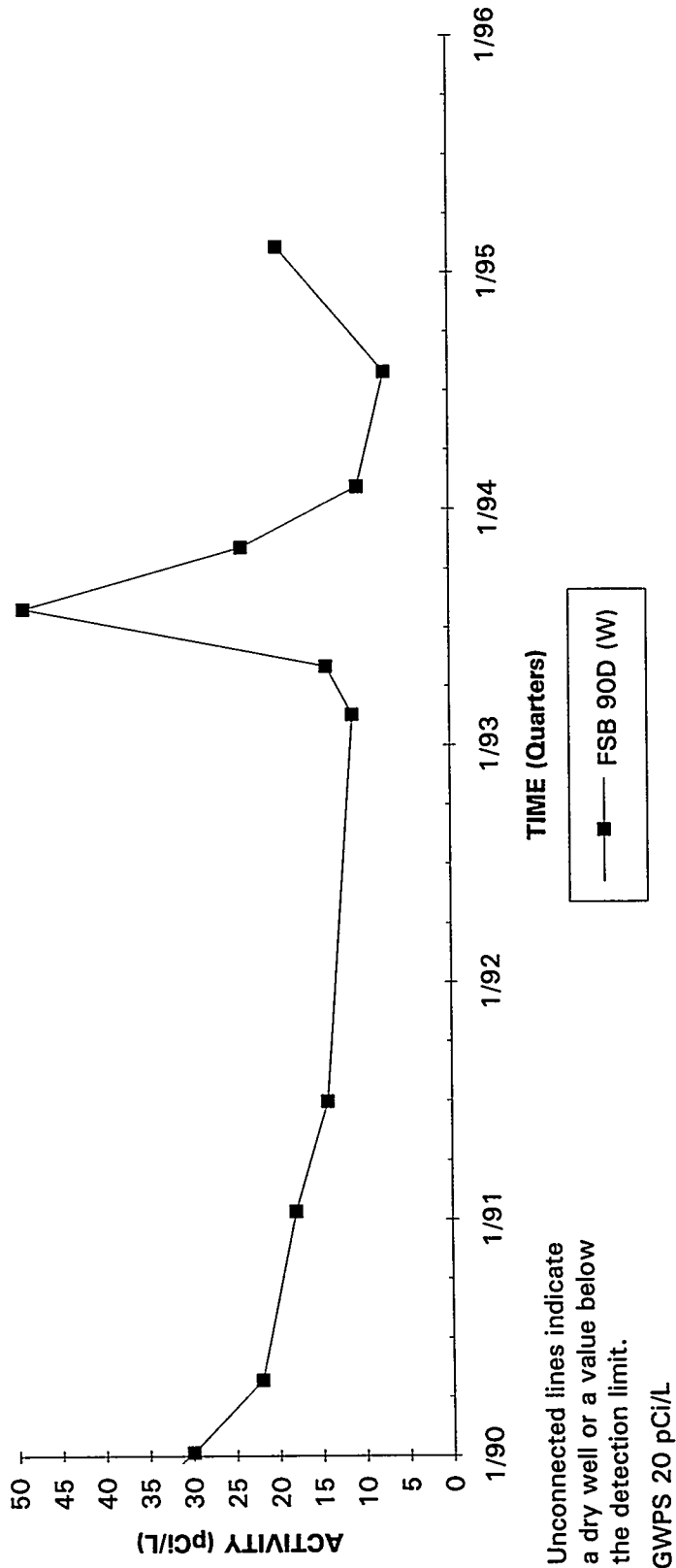
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well Cluster FSB 79



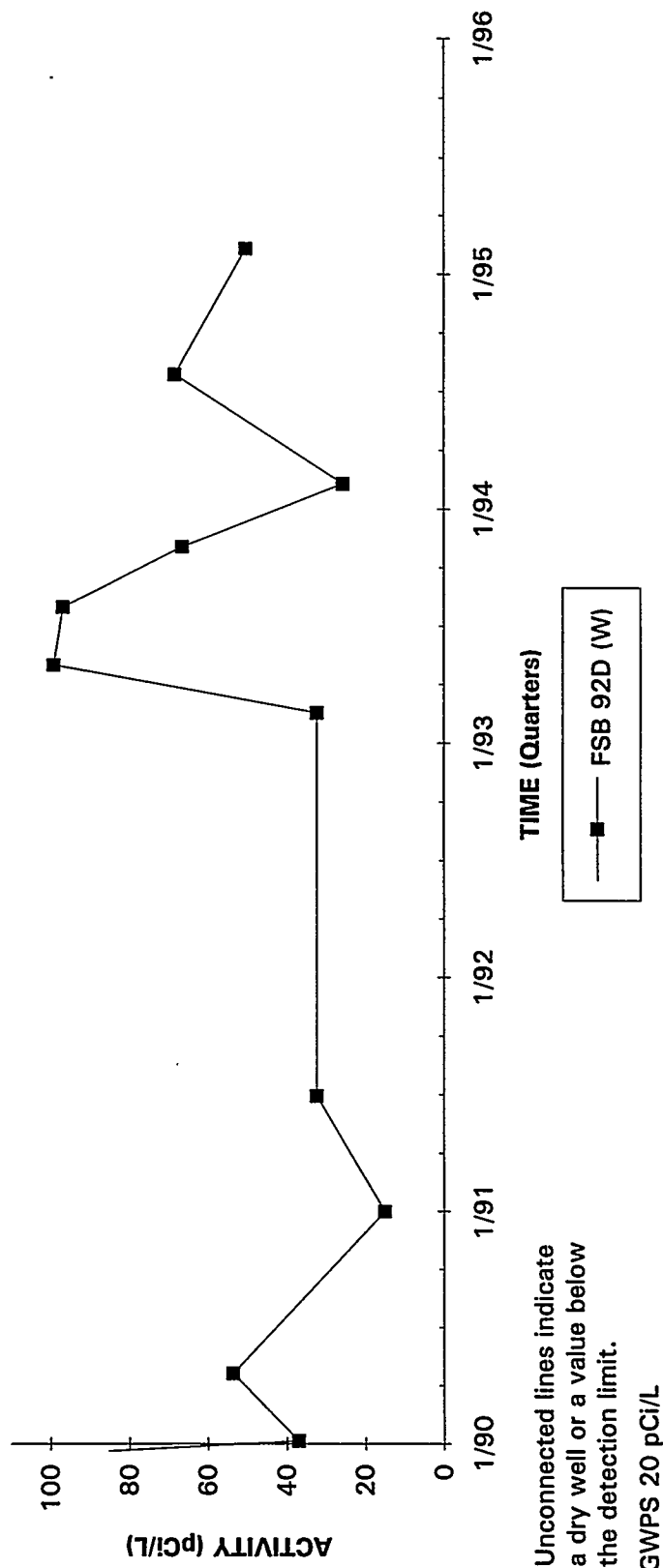
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities
Well FSB 90D



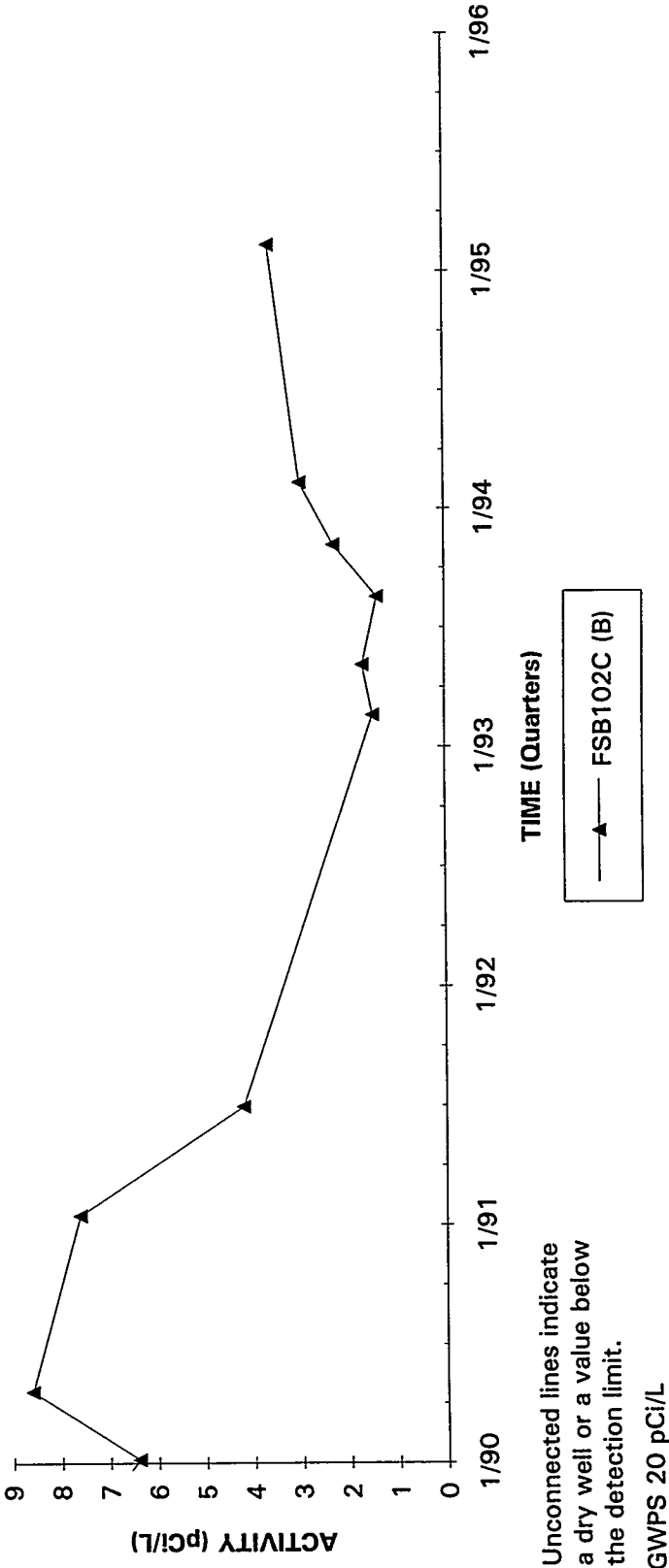
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

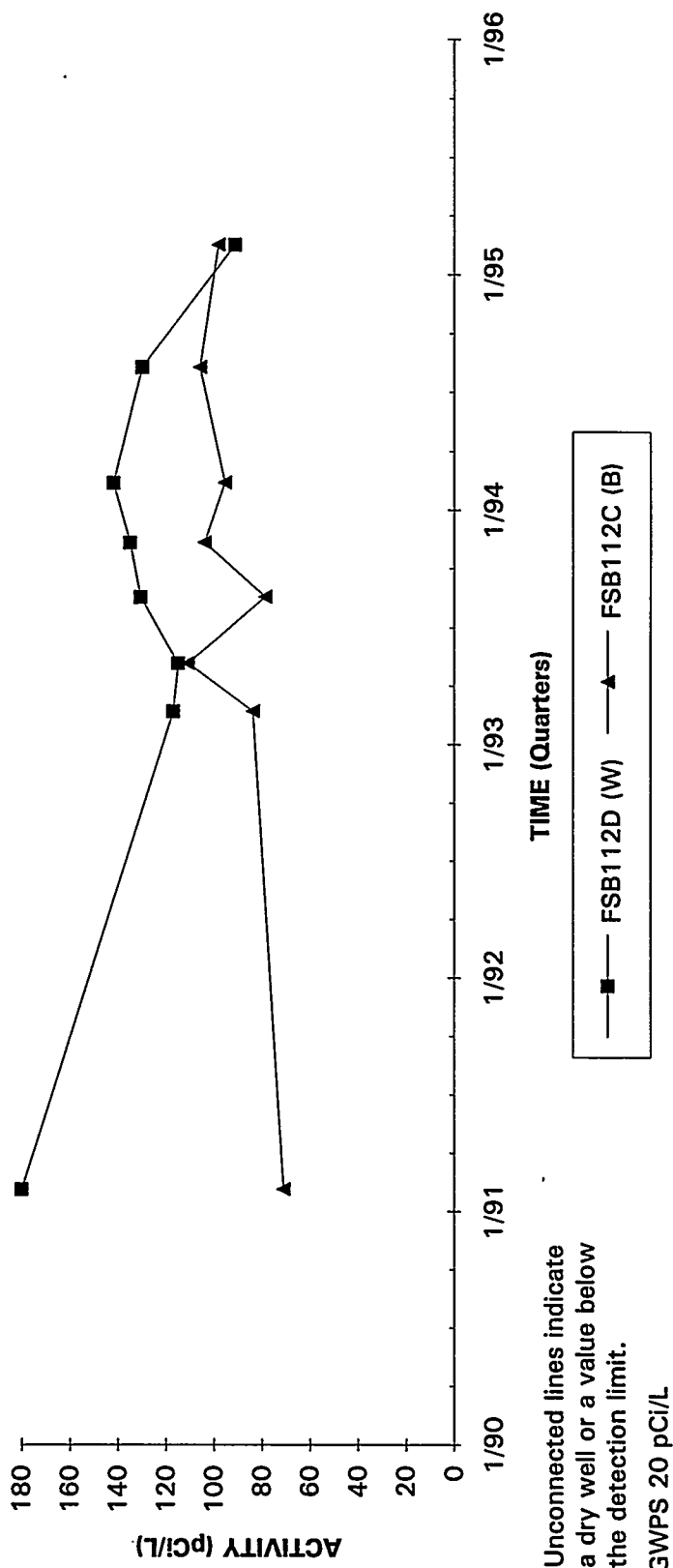
Radium-226 Activities
Well FSB102C



Unconnected lines indicate
a dry well or a value below
the detection limit.
GWPS 20 pCi/L

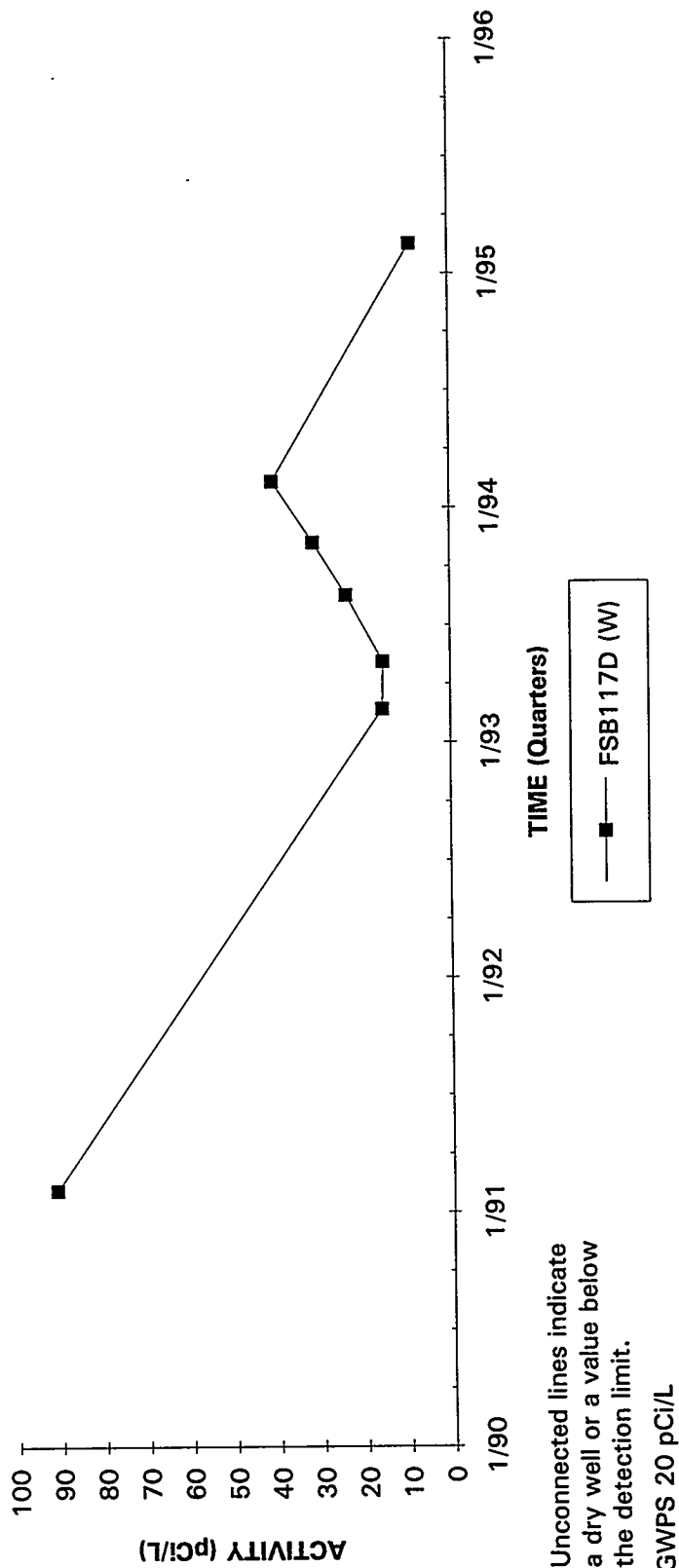
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well Cluster FSB112



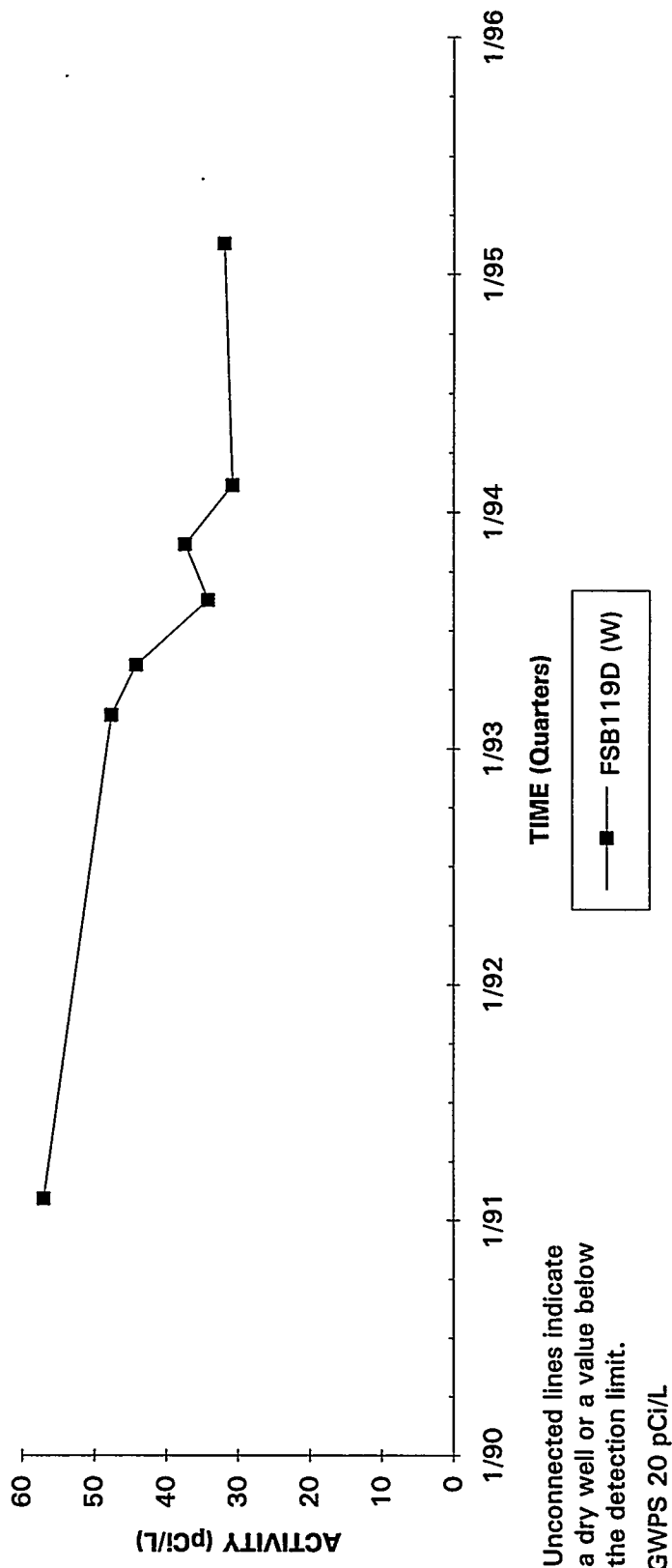
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB117D



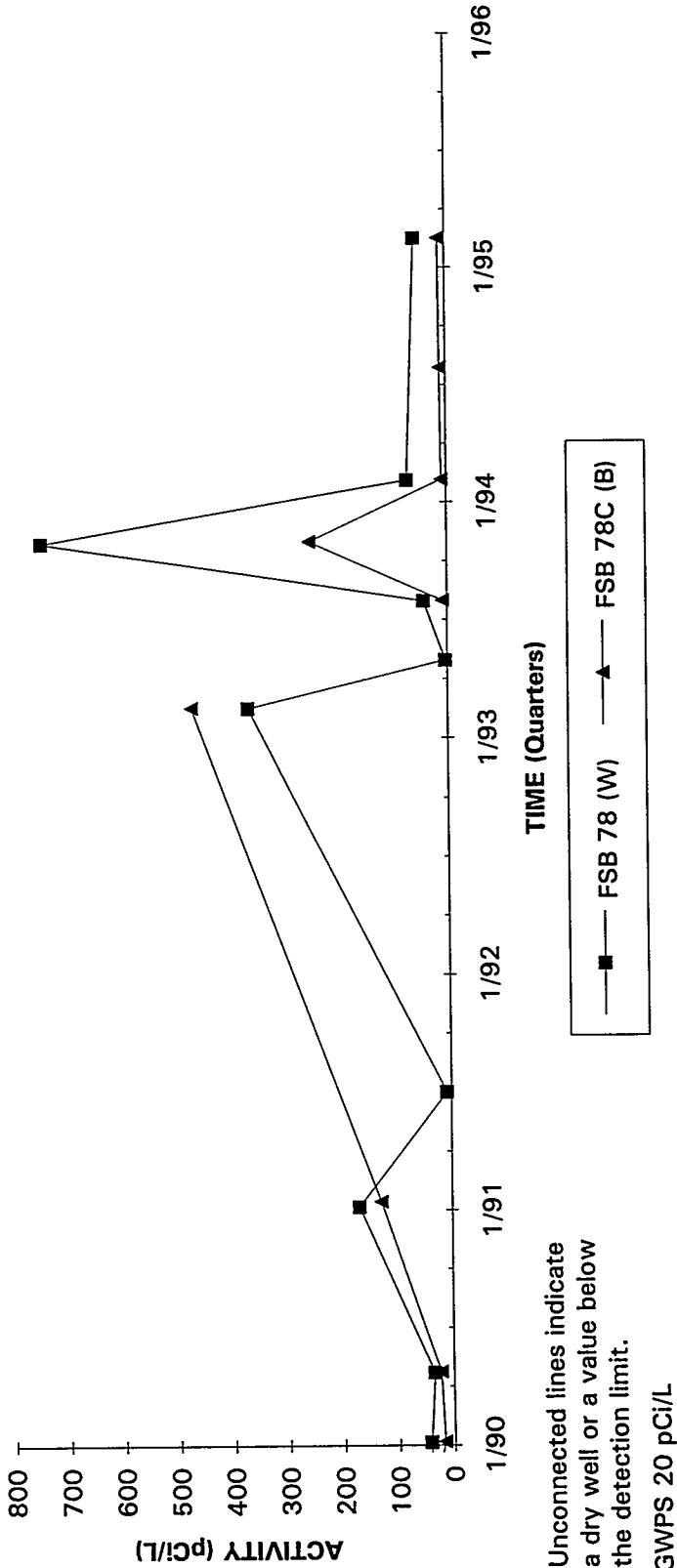
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-226 Activities Well FSB119D



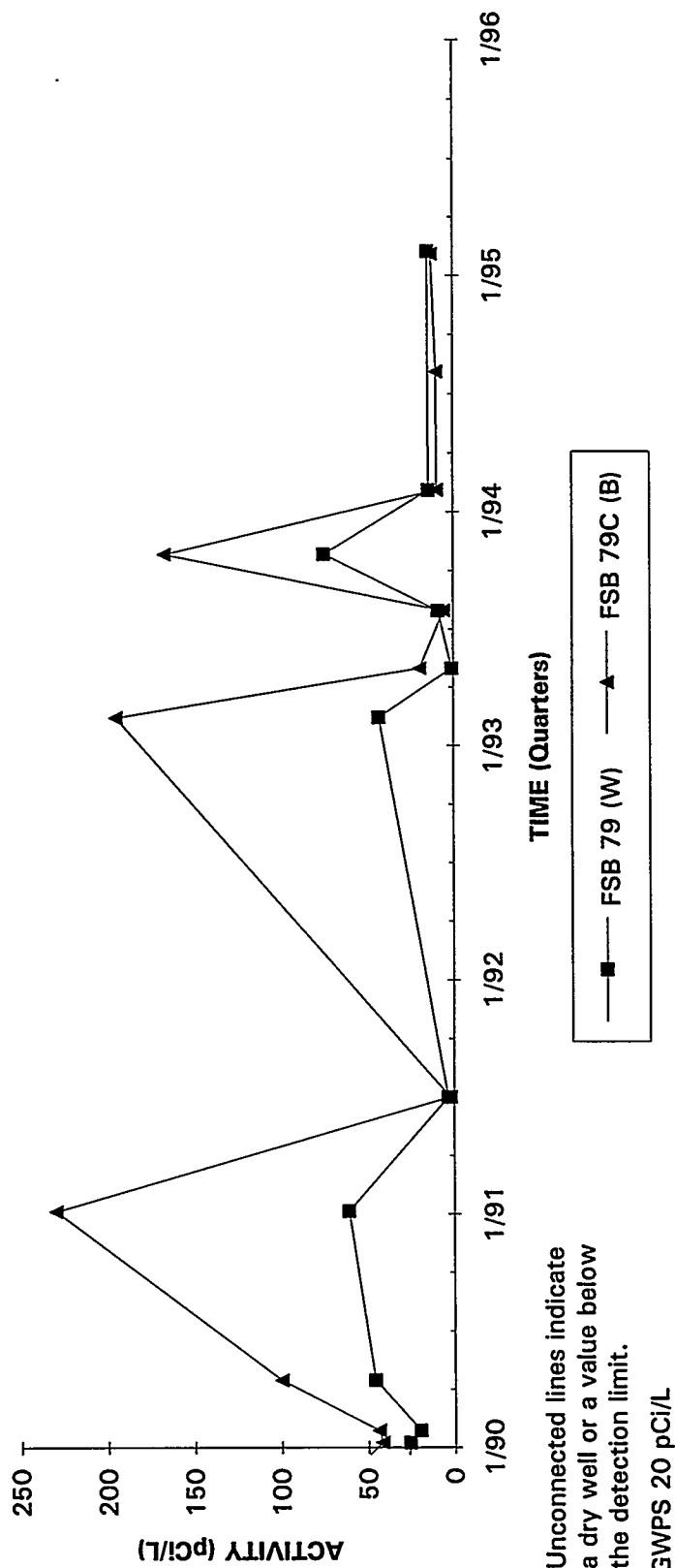
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well Cluster FSB 78



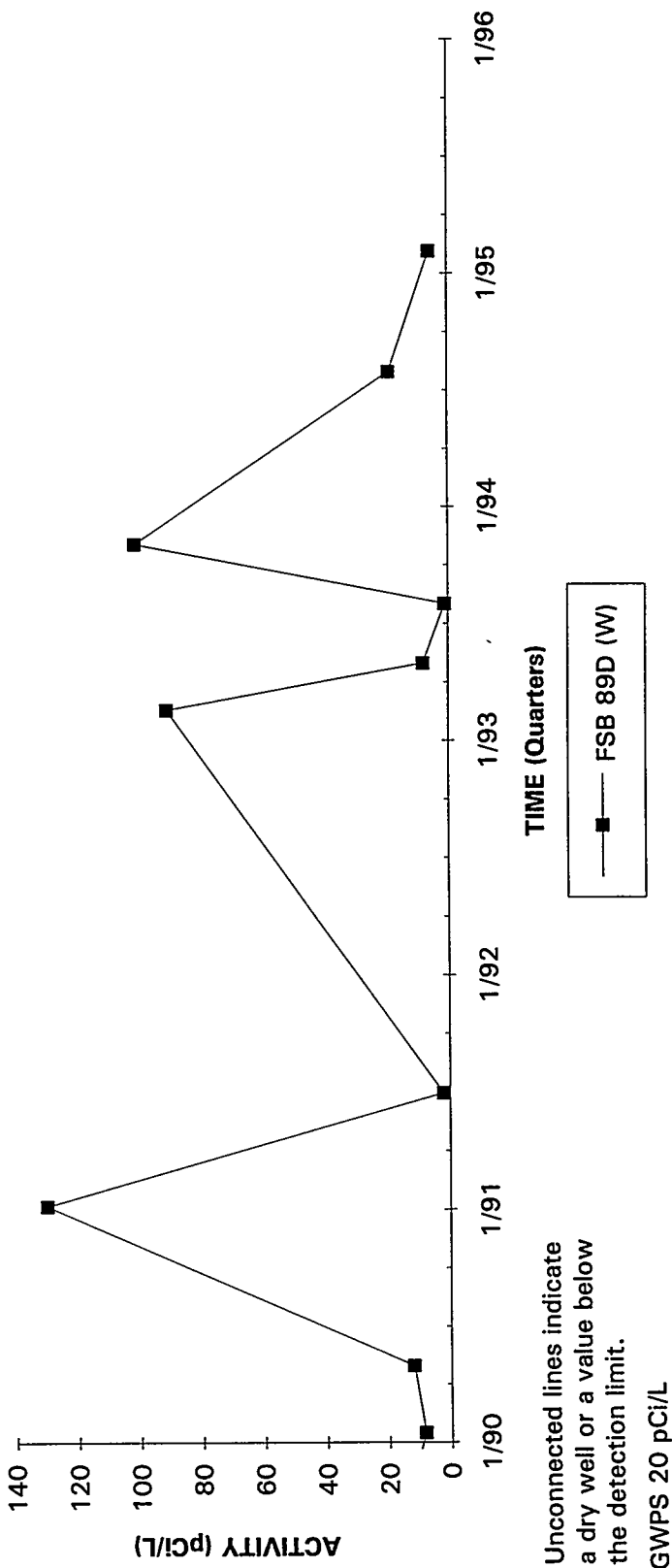
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

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)

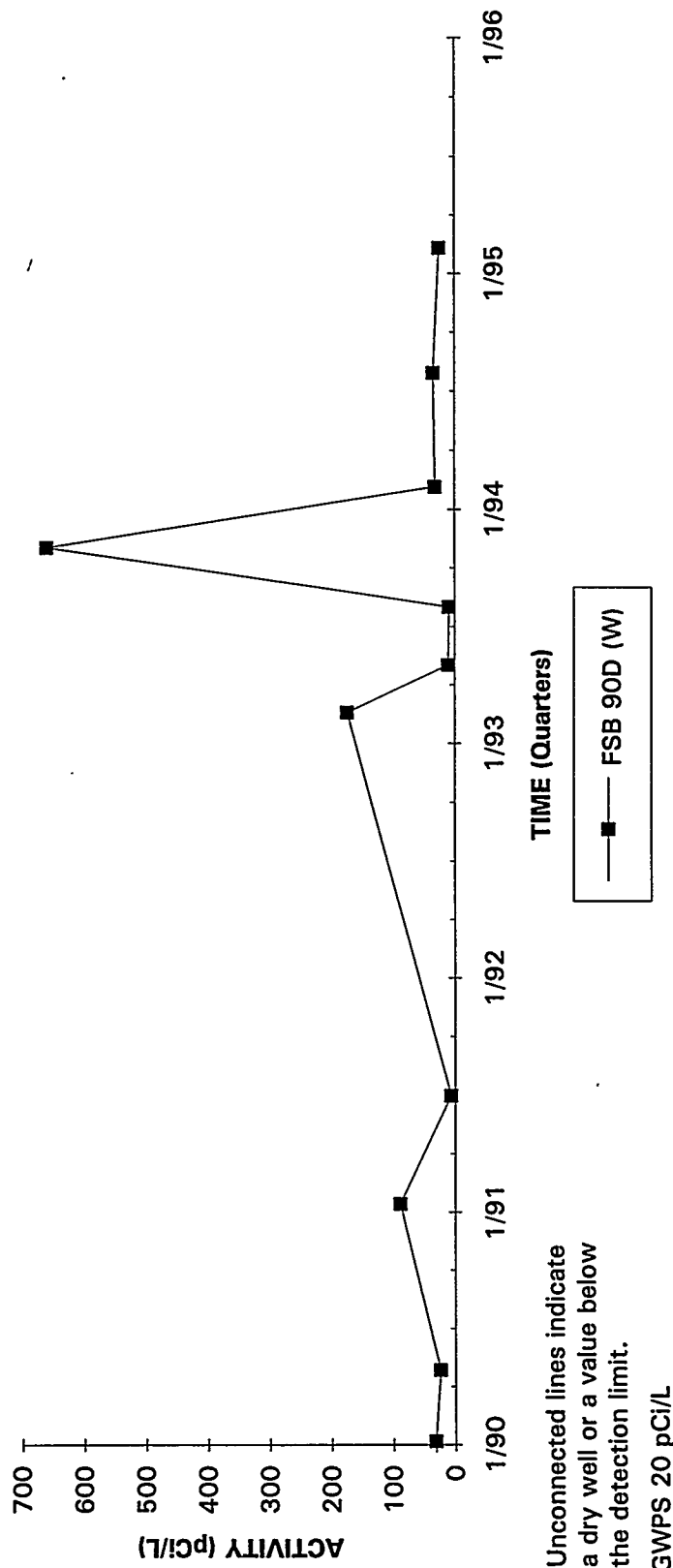
Radium-228 Activities
Well FSB 89D



Unconnected lines indicate
a dry well or a value below
the detection limit.
GWPS 20 pCi/L

Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB 90D

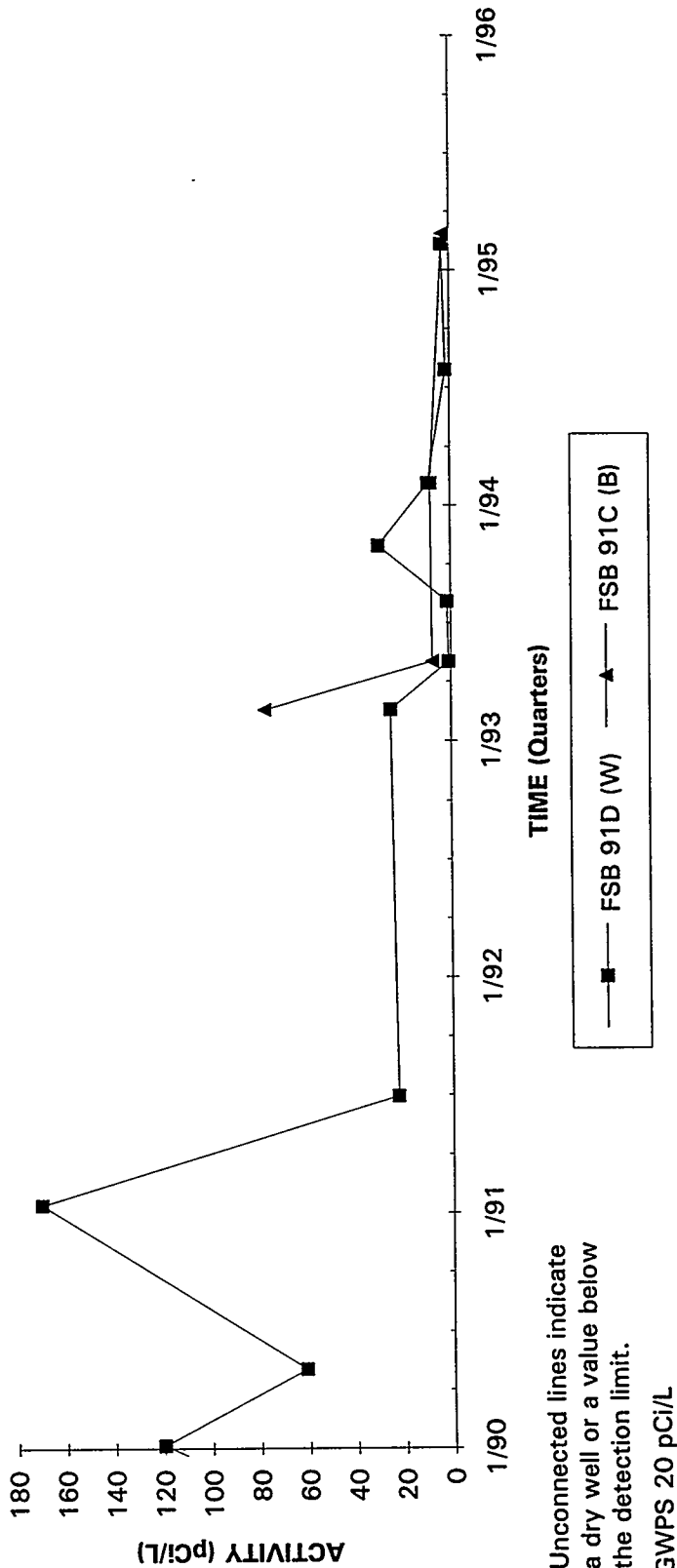


Unconnected lines indicate a dry well or a value below the detection limit.

GWPS 20 pCi/L

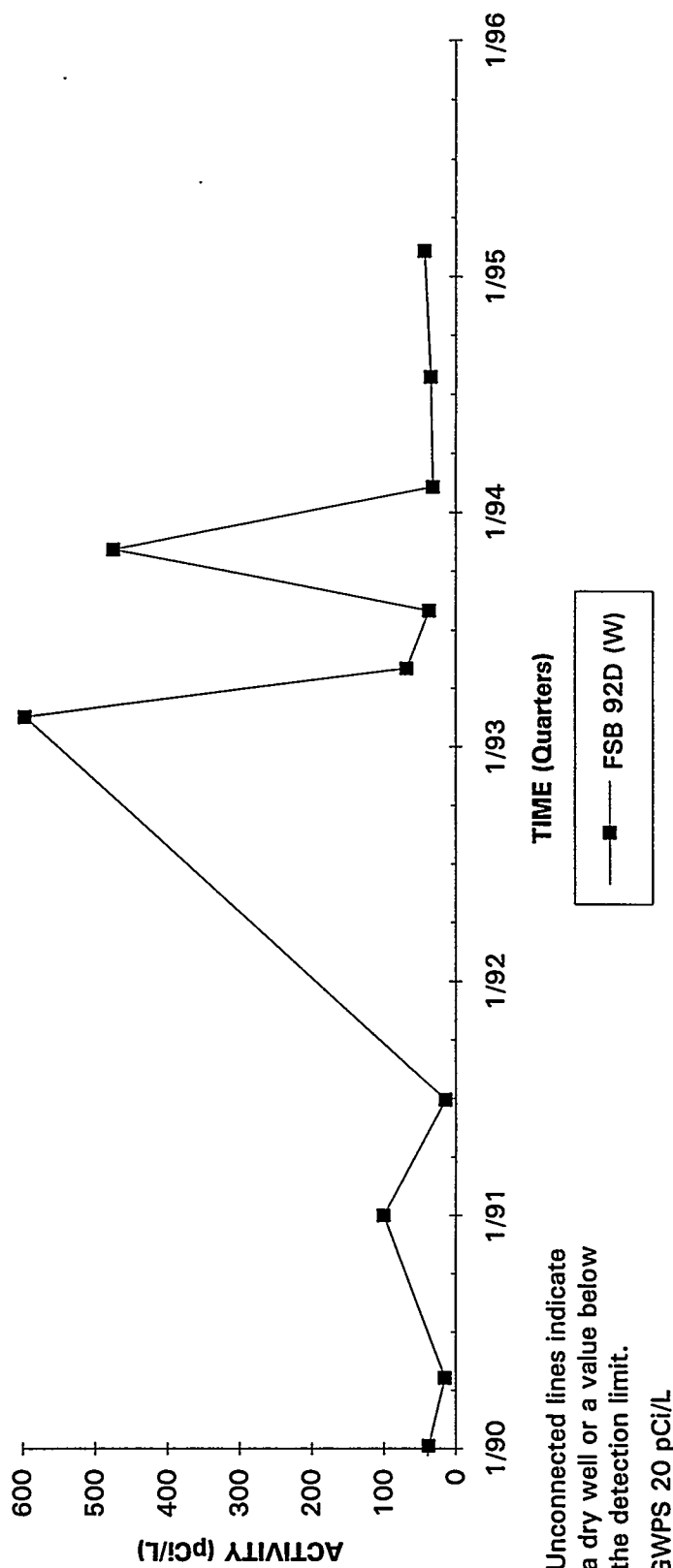
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well Cluster FSB 91



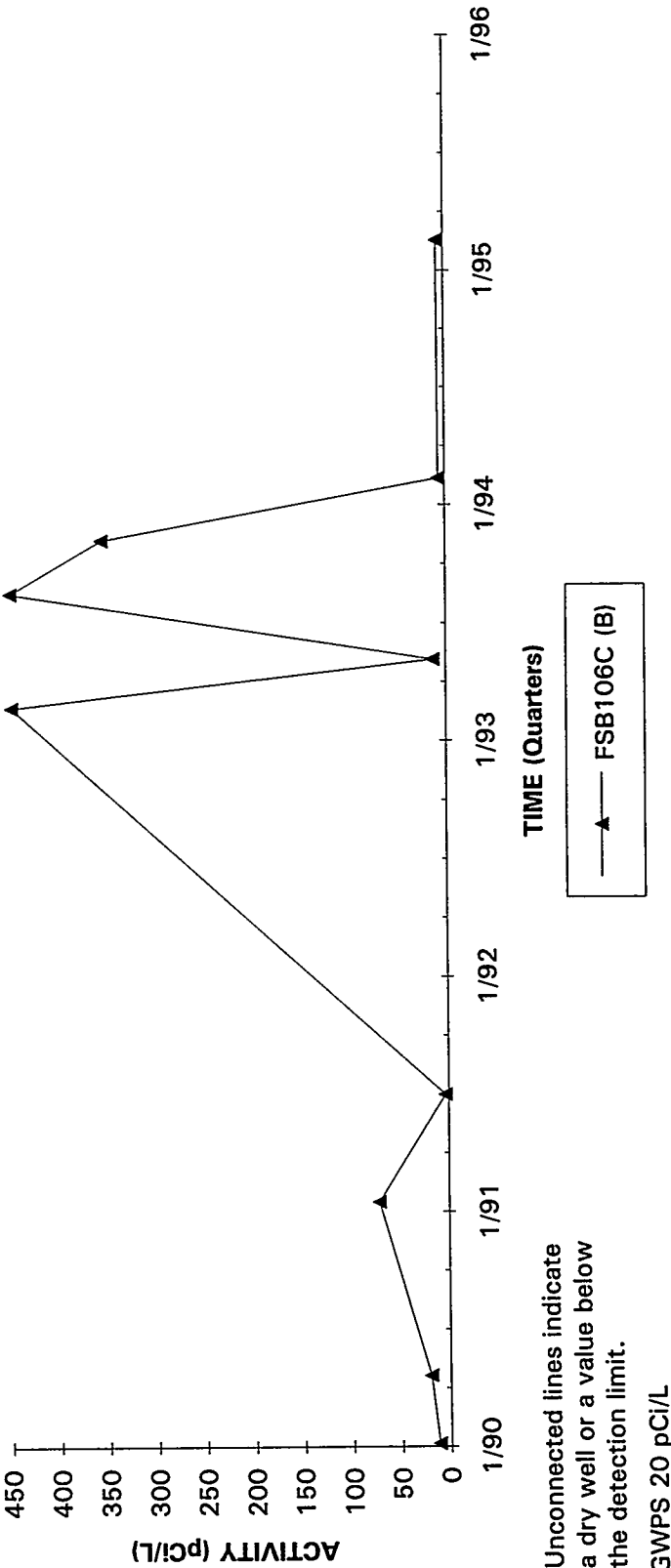
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Radium-228 Activities Well FSB 92D



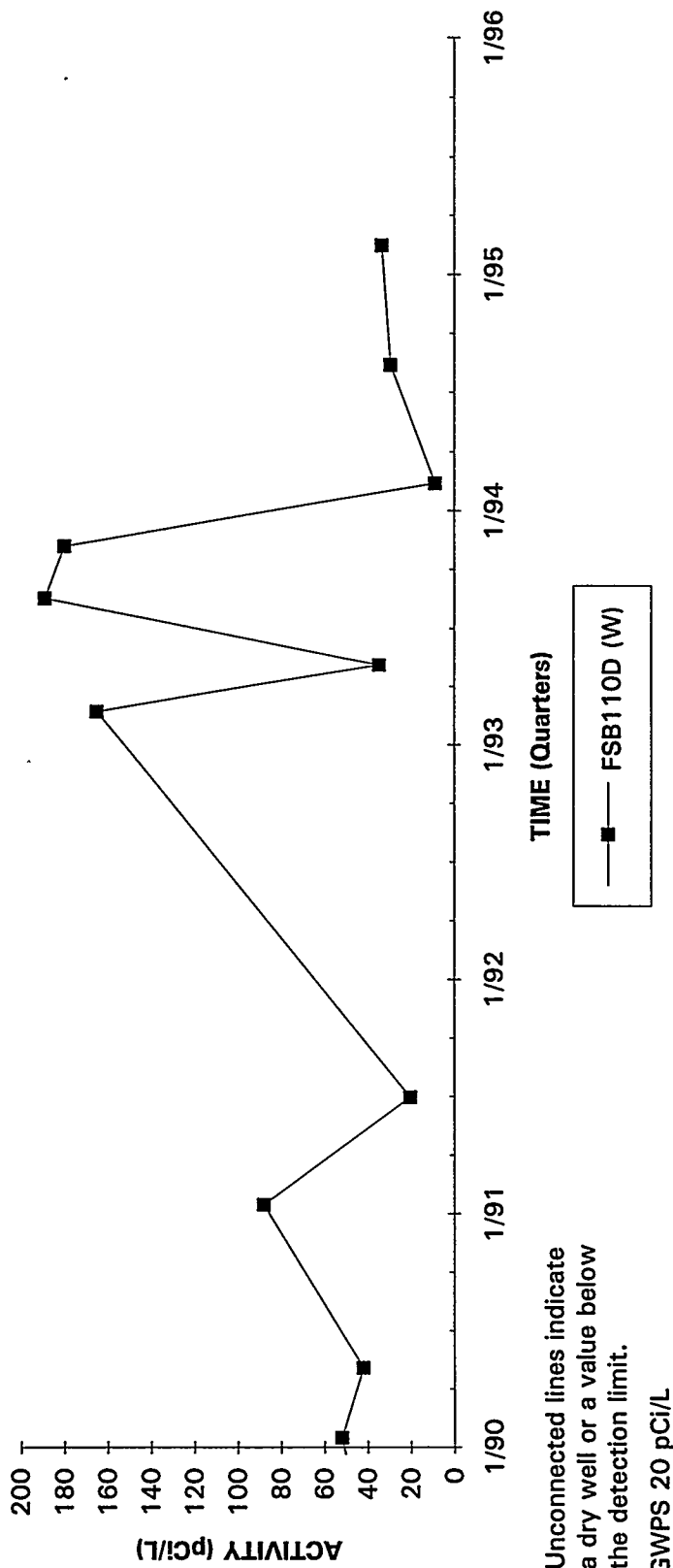
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

**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)

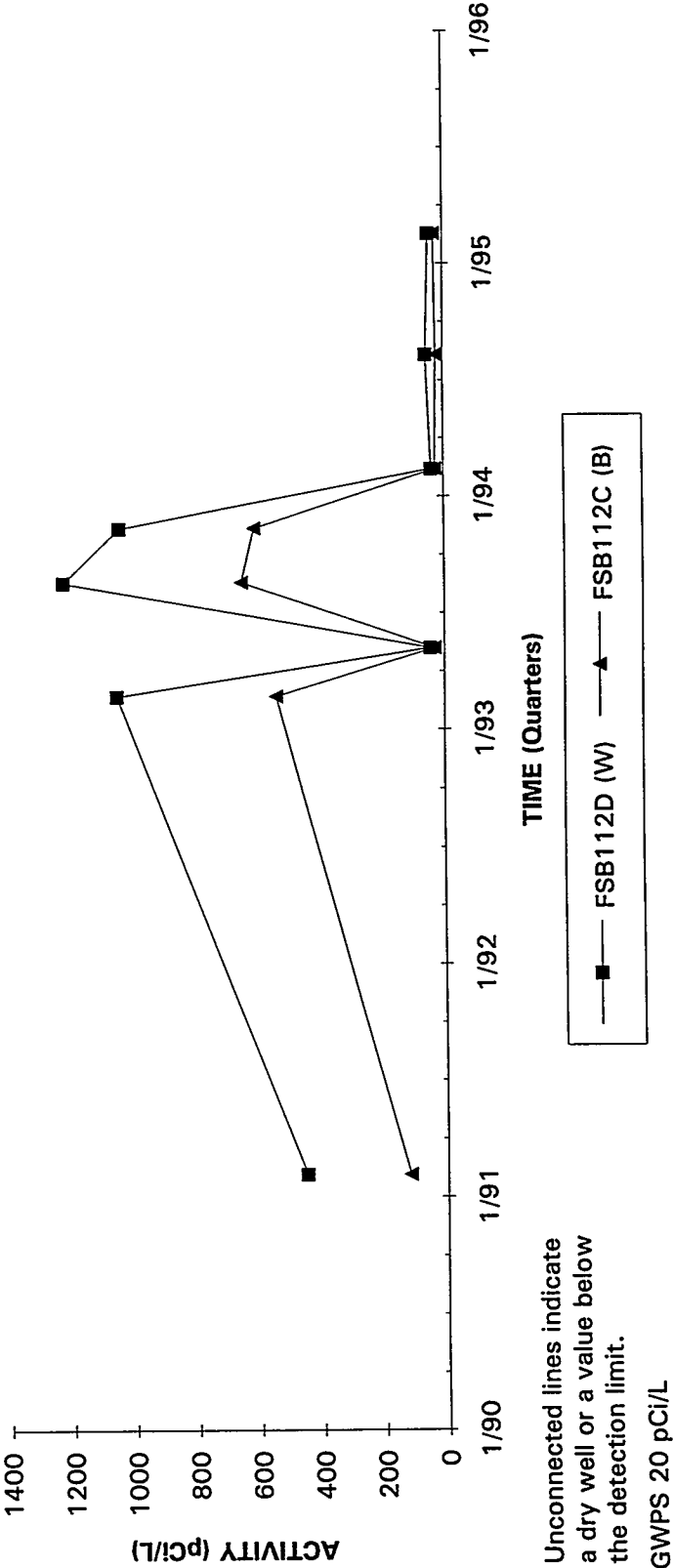
Radium-228 Activities Well FSB110D



Unconnected lines indicate
a dry well or a value below
the detection limit.
GWPS 20 pCi/L

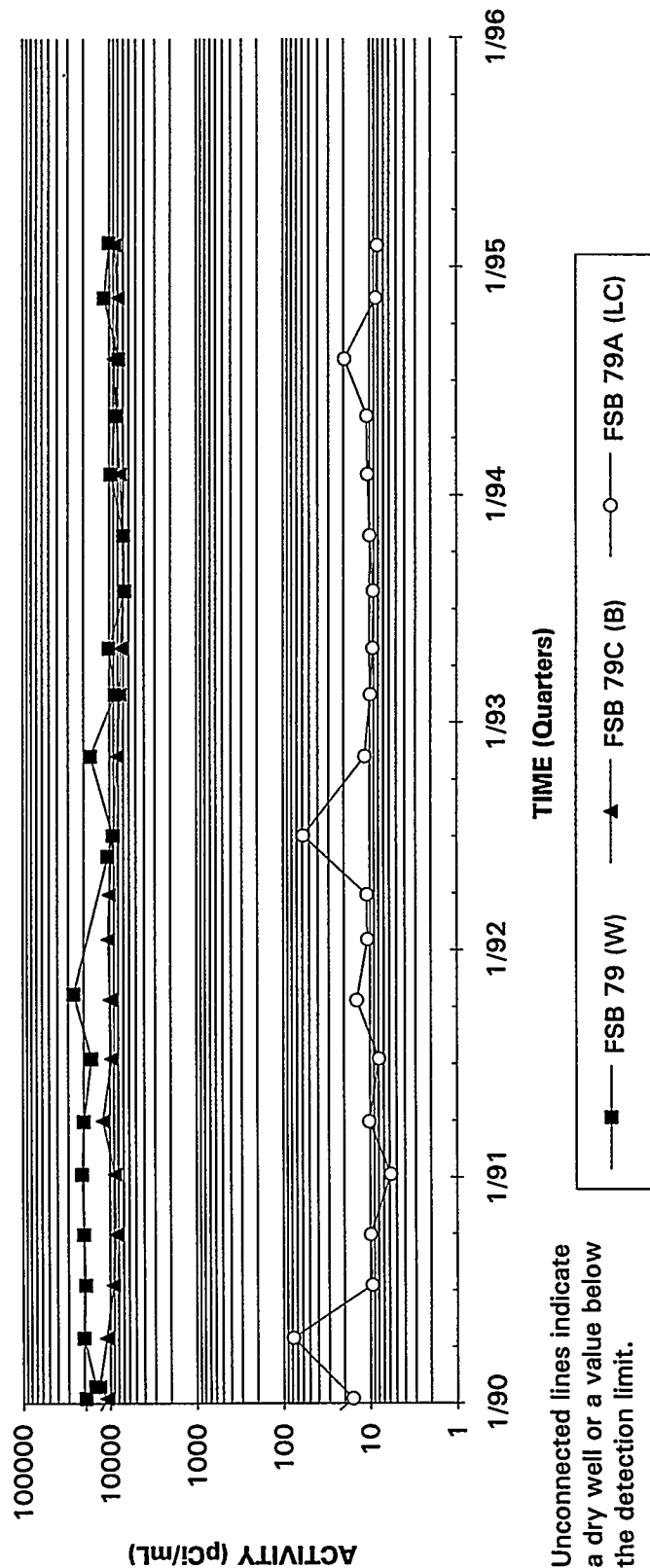
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

**Radium-228 Activities
Well Cluster FSB112**



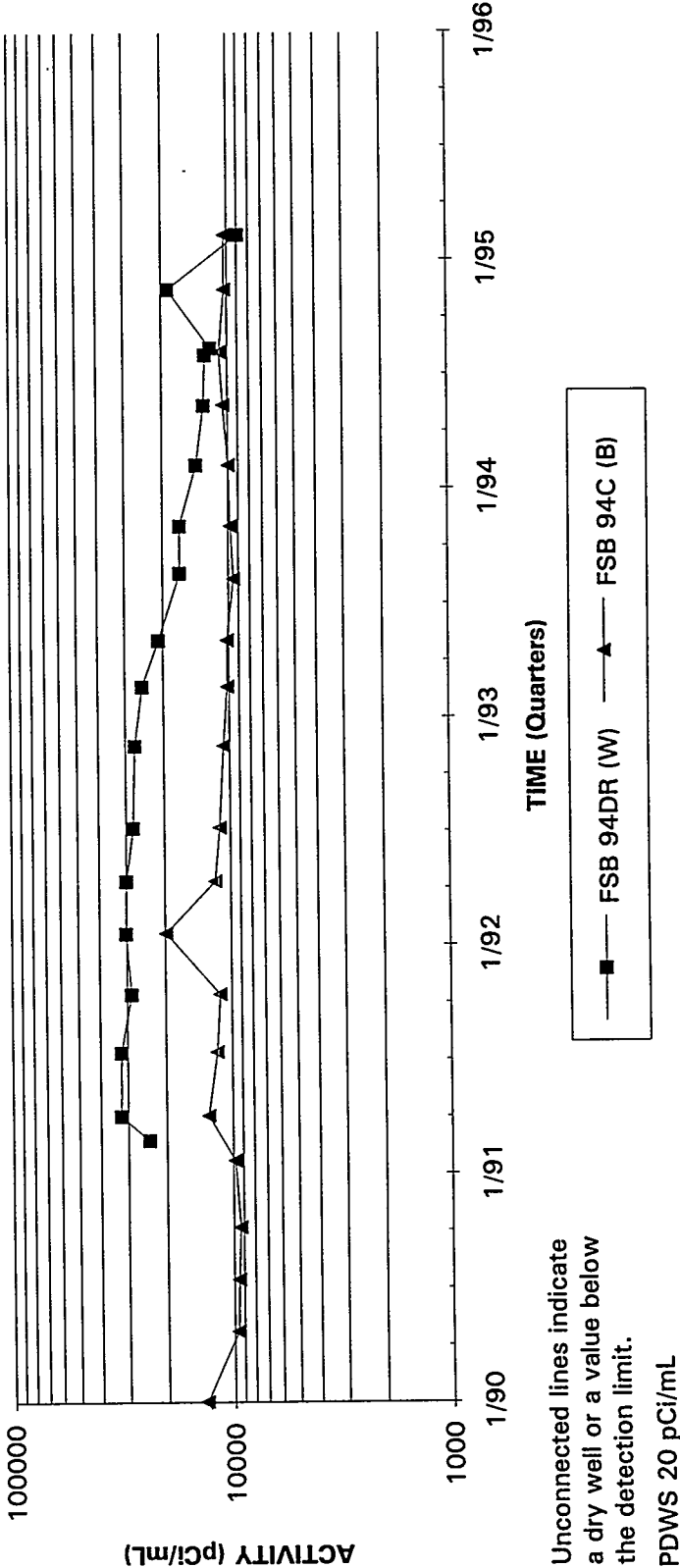
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB 79



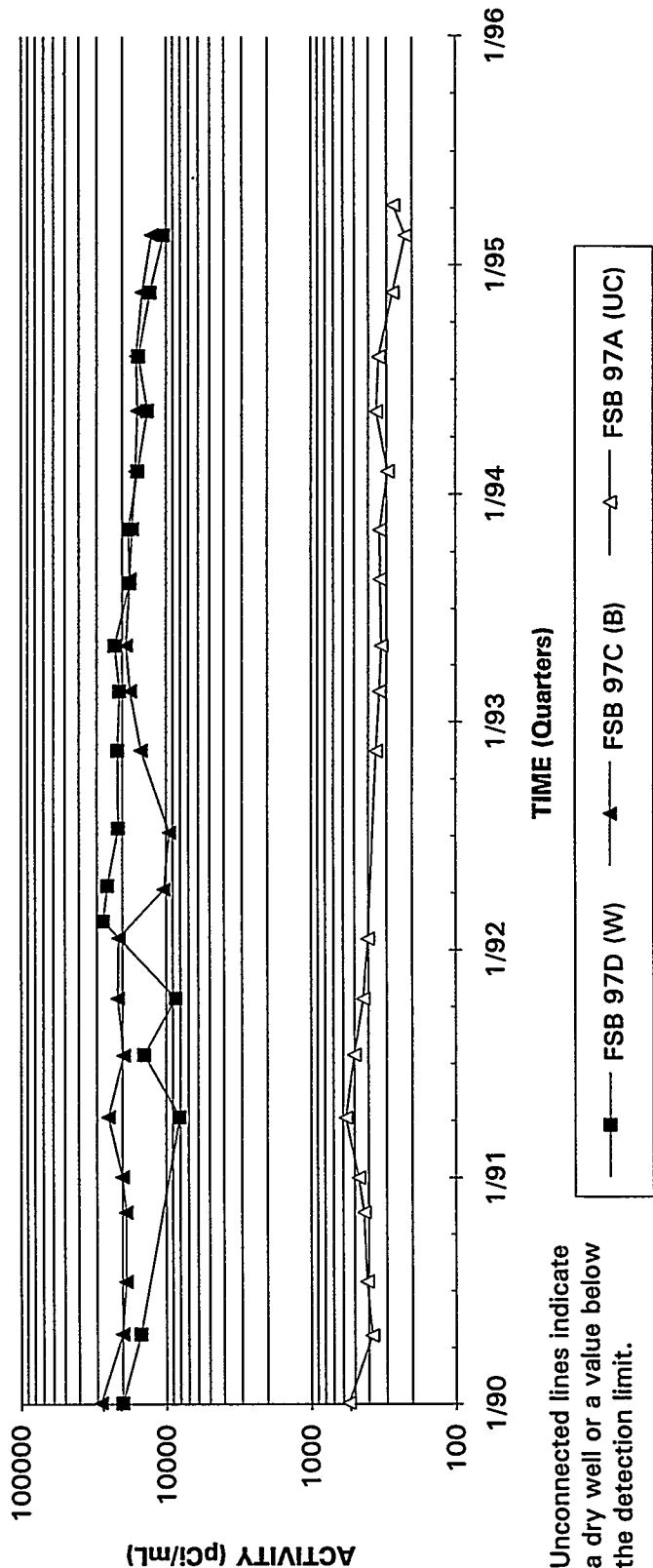
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

**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

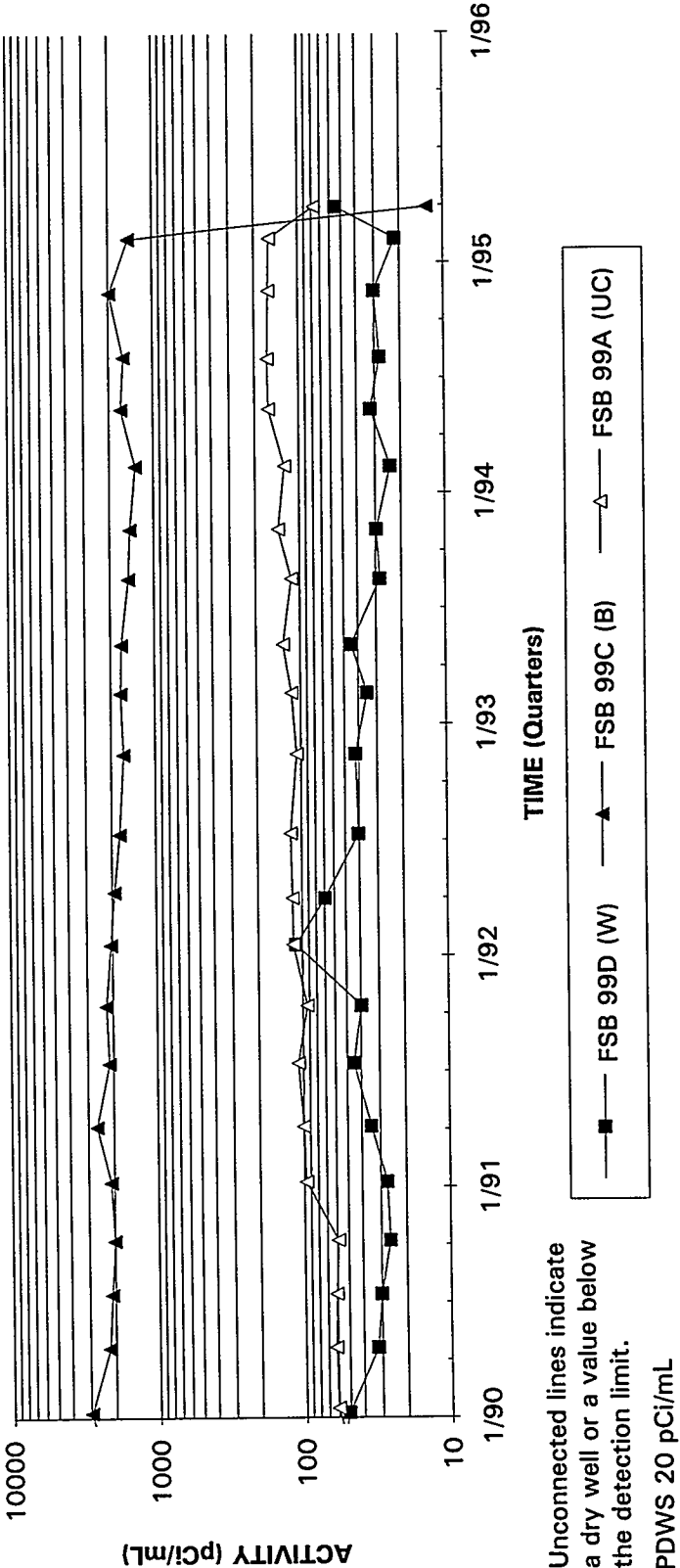


Unconnected lines indicate
a dry well or a value below
the detection limit.

PDWS 20 pCi/mL

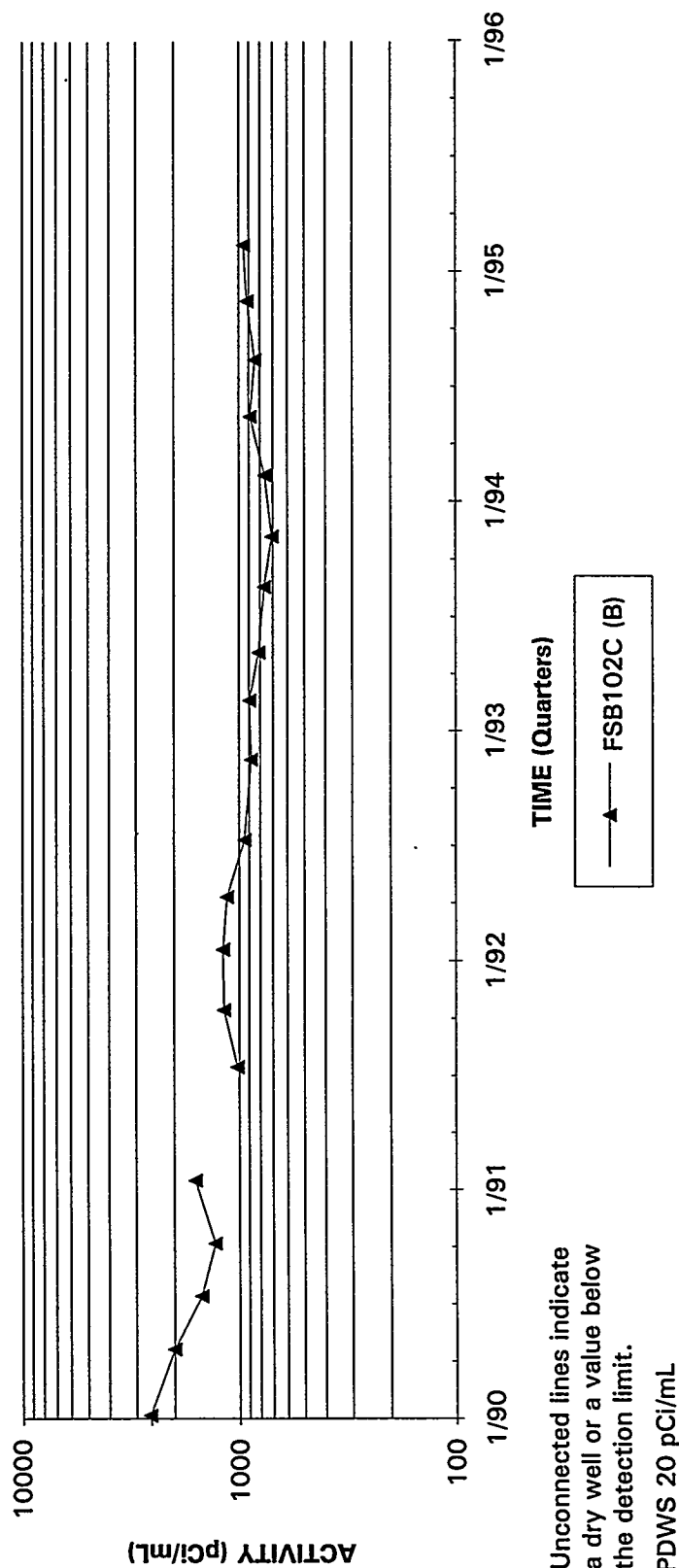
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB 99



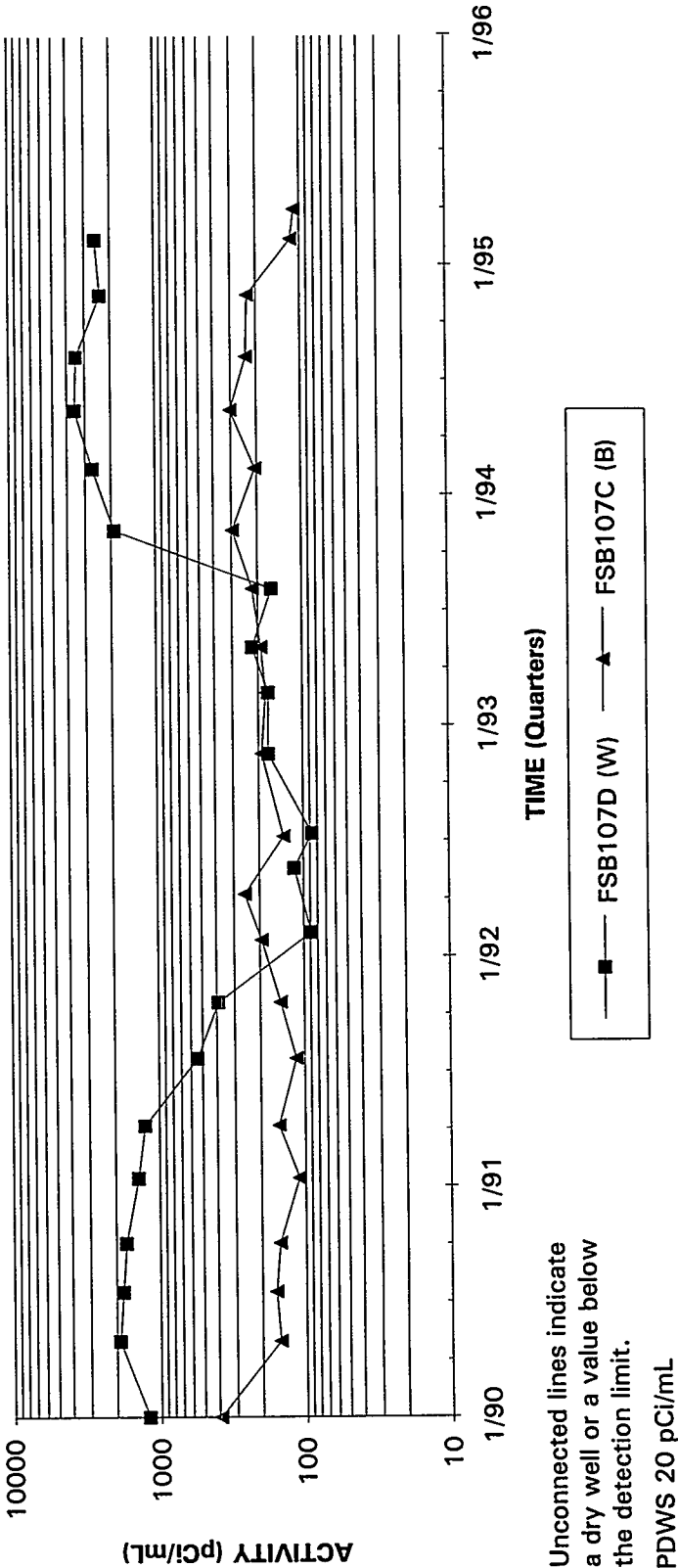
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well FSB102C



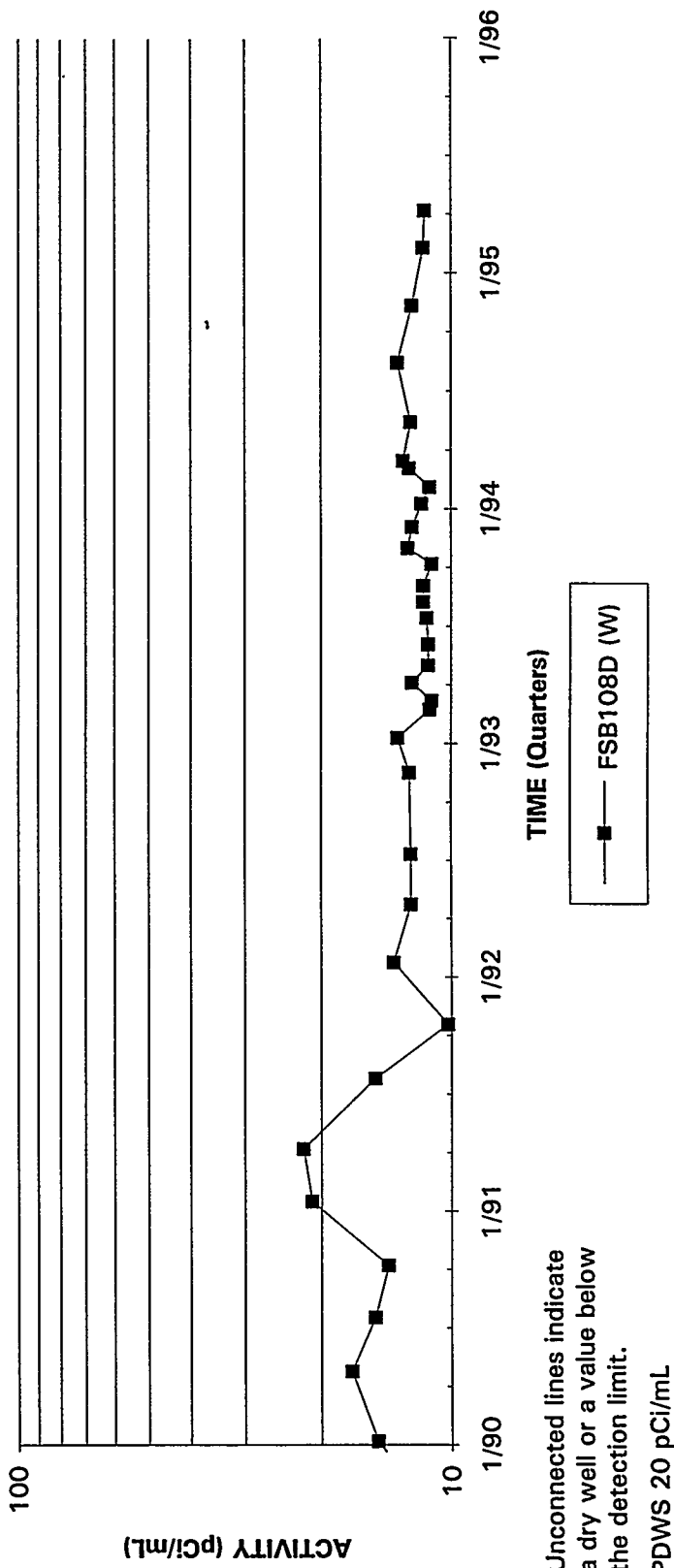
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

**Tritium Activities
Well Cluster FSB107**



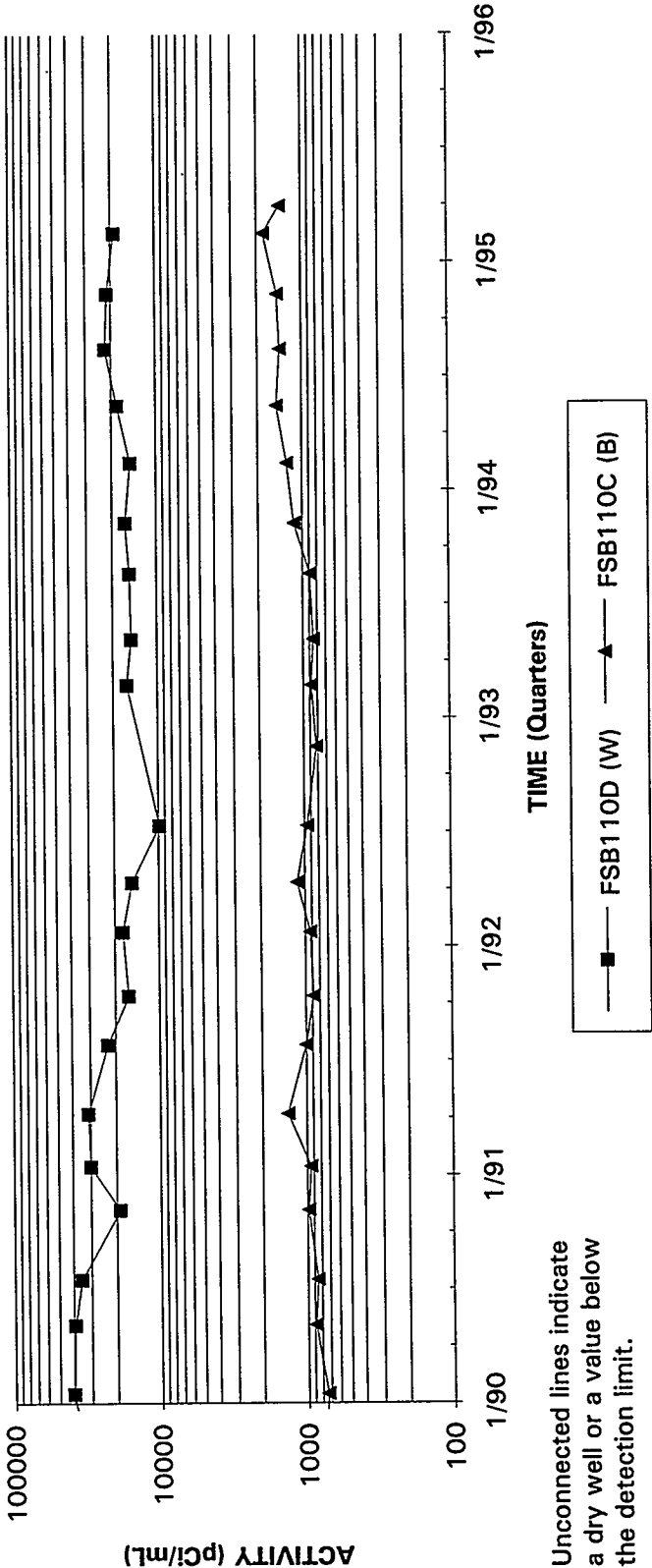
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well FSB108D



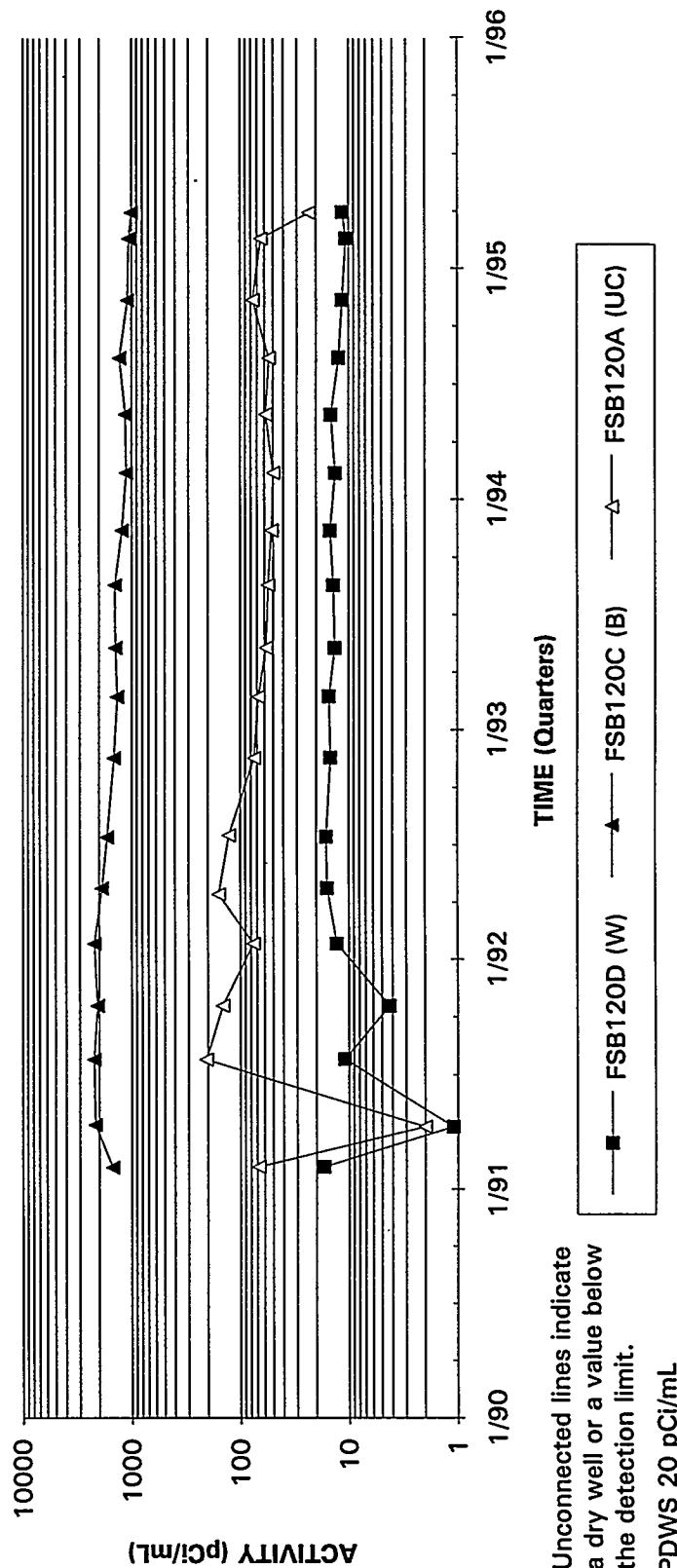
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities Well Cluster FSB110



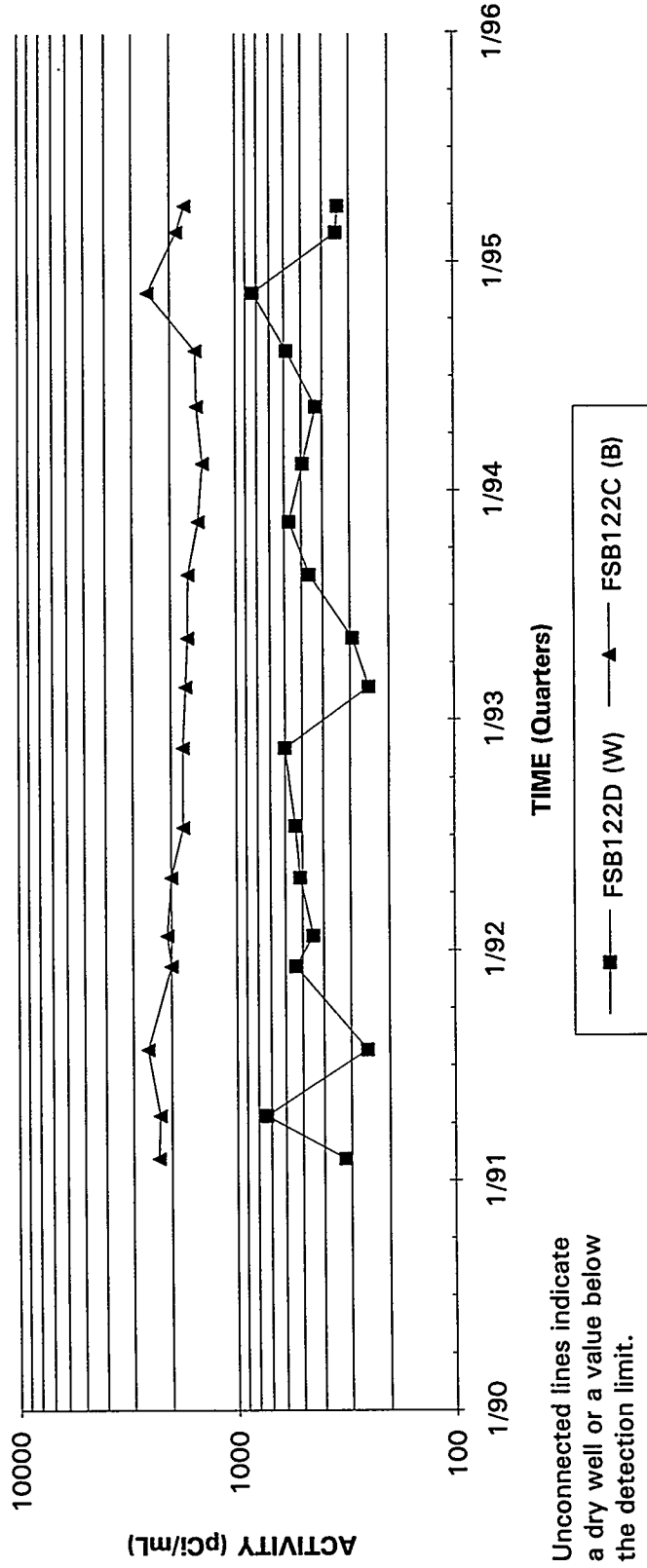
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Tritium Activities 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)

Tritium Activities Well Cluster FSB122



Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 20 pCi/mL

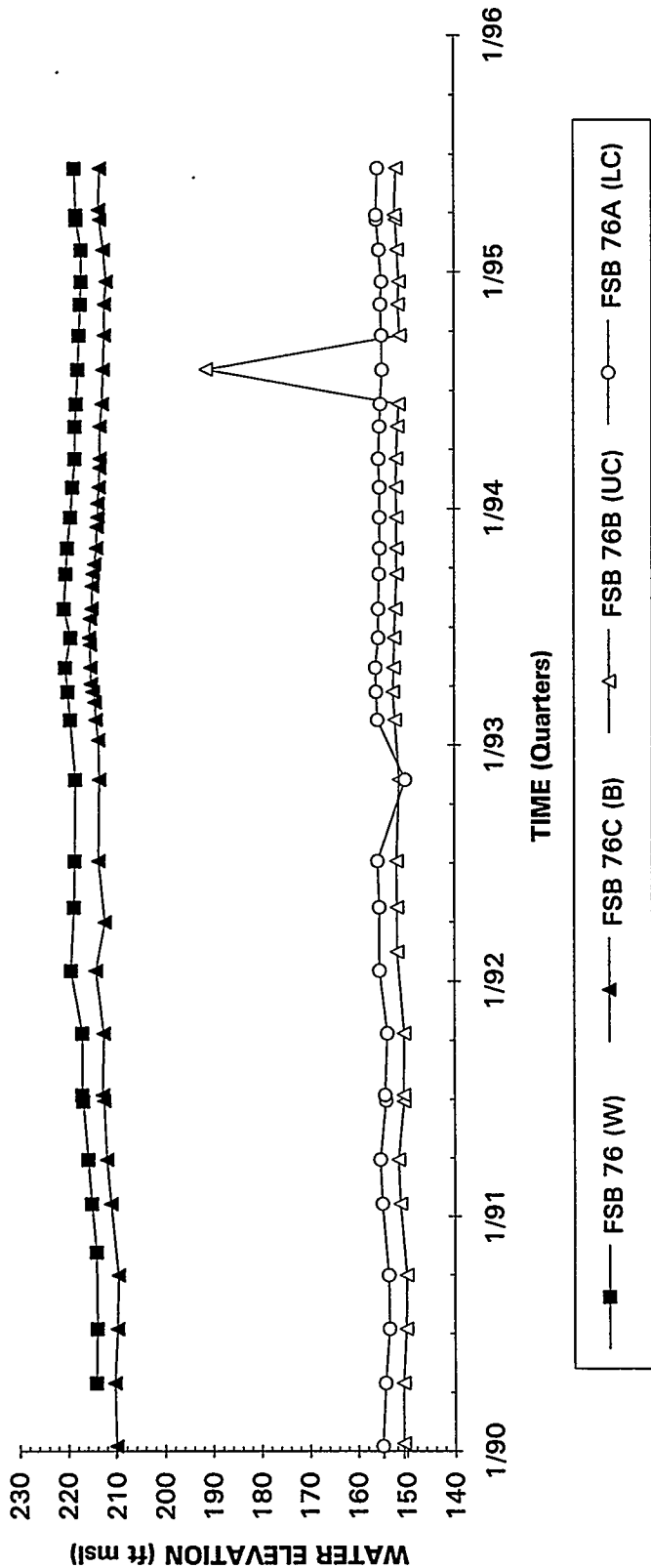
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Appendix G

Hydrographs

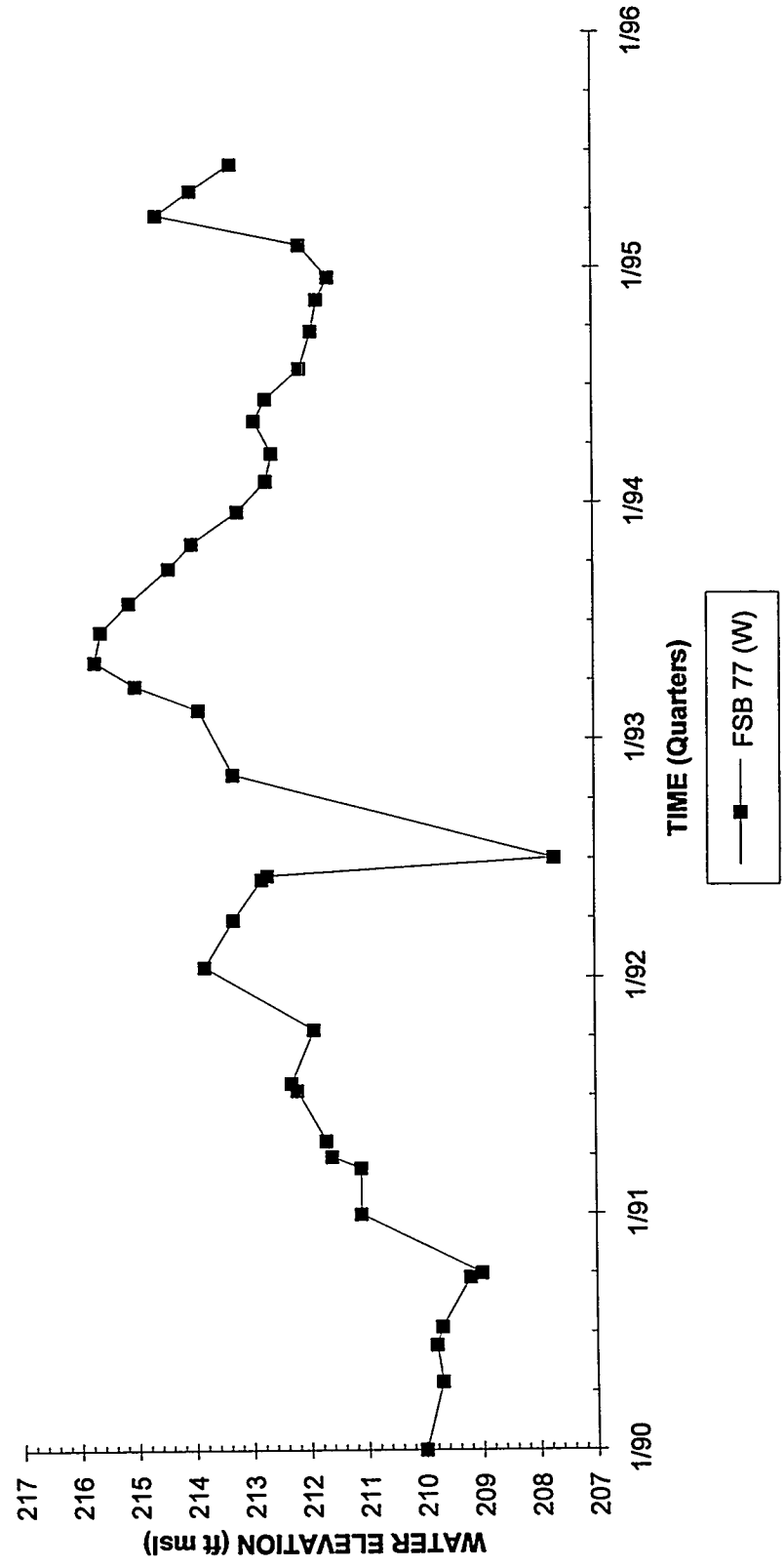
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Hydrograph Well Cluster FSB 76



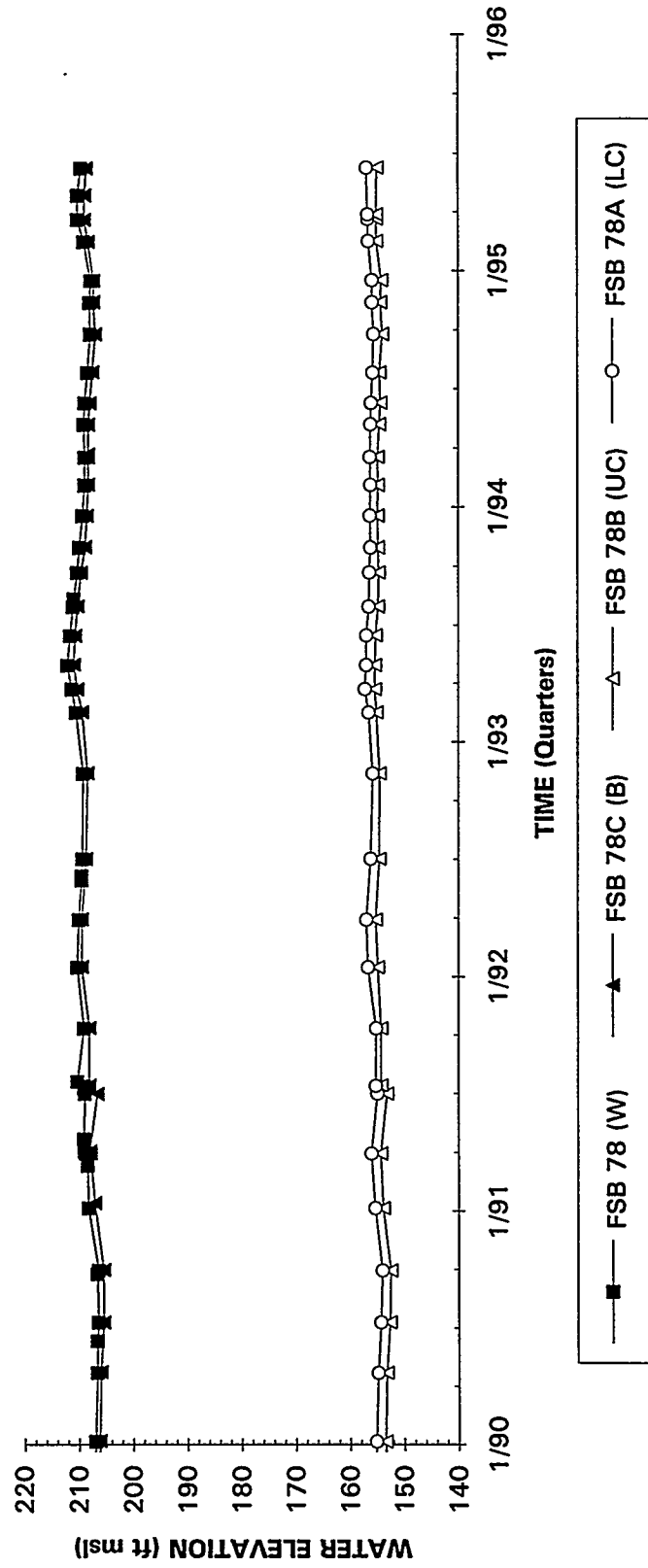
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSB 77



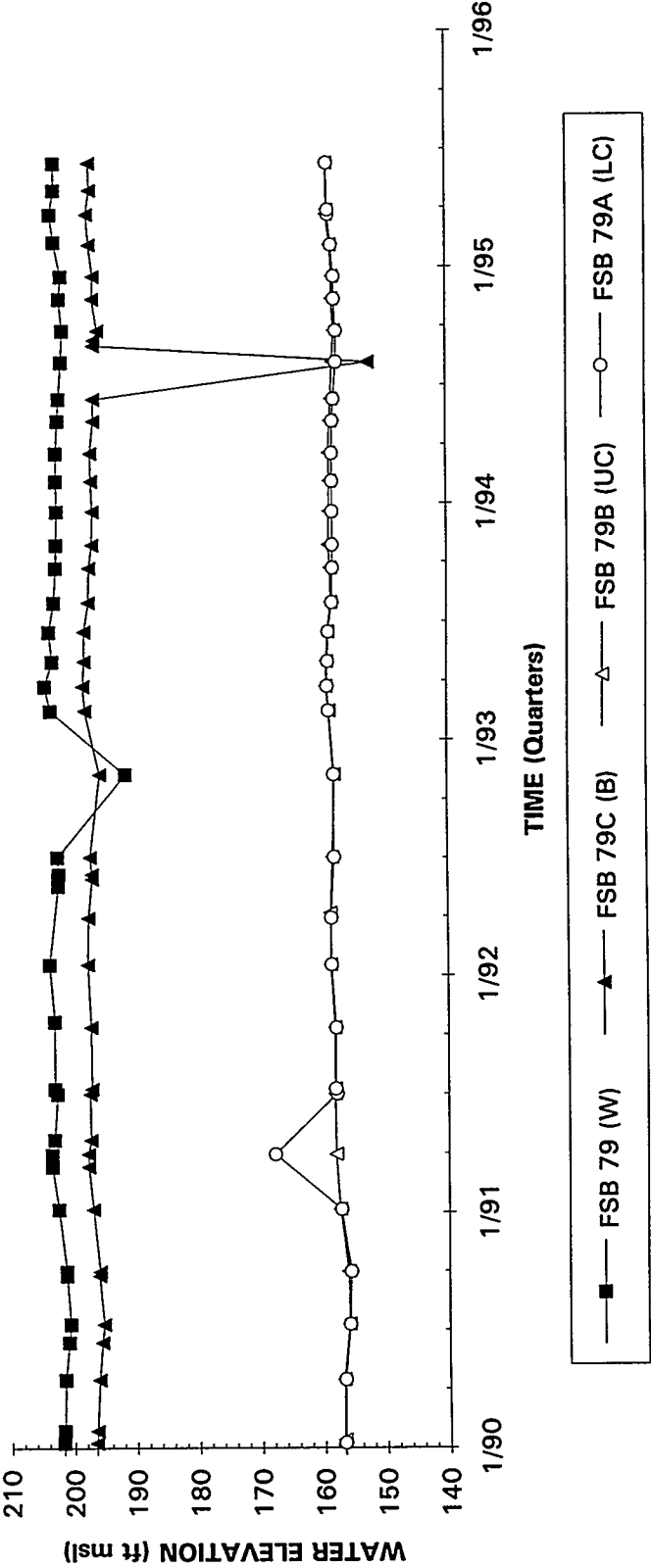
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 78



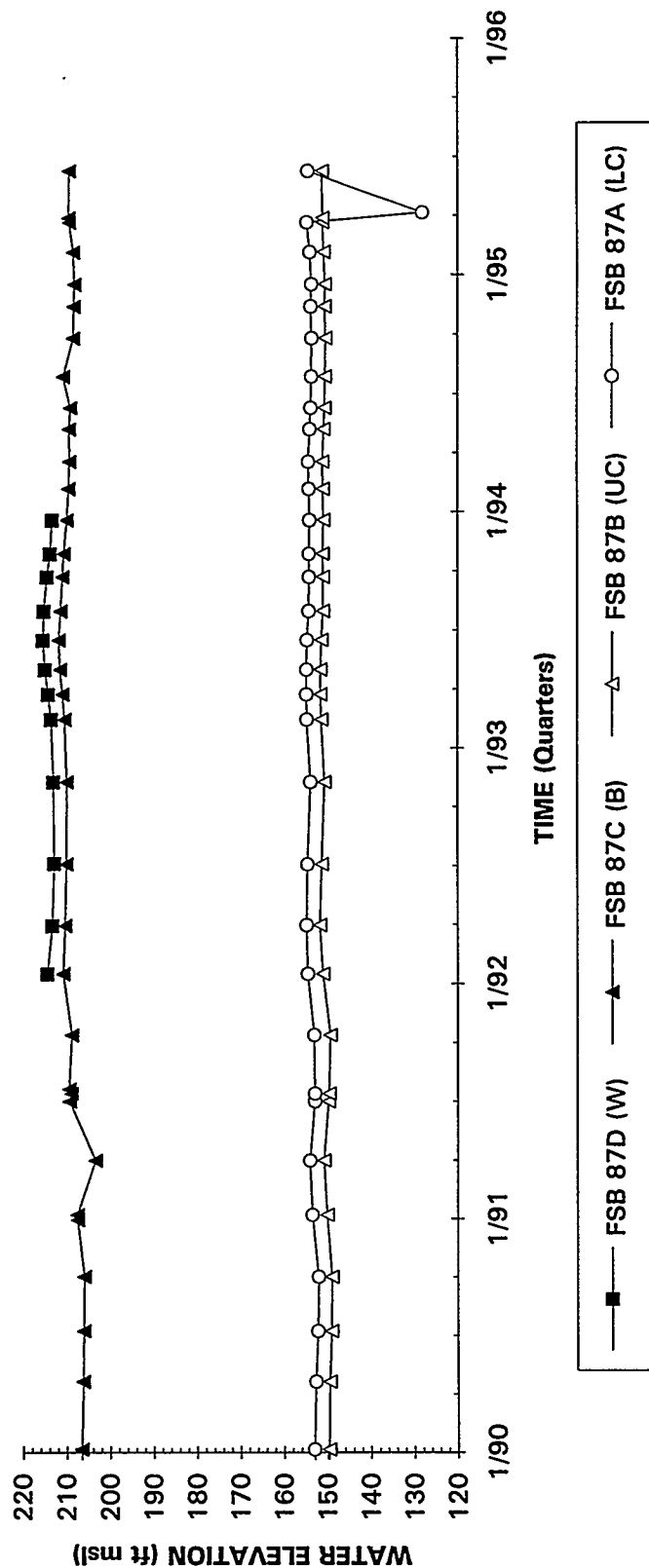
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB 79



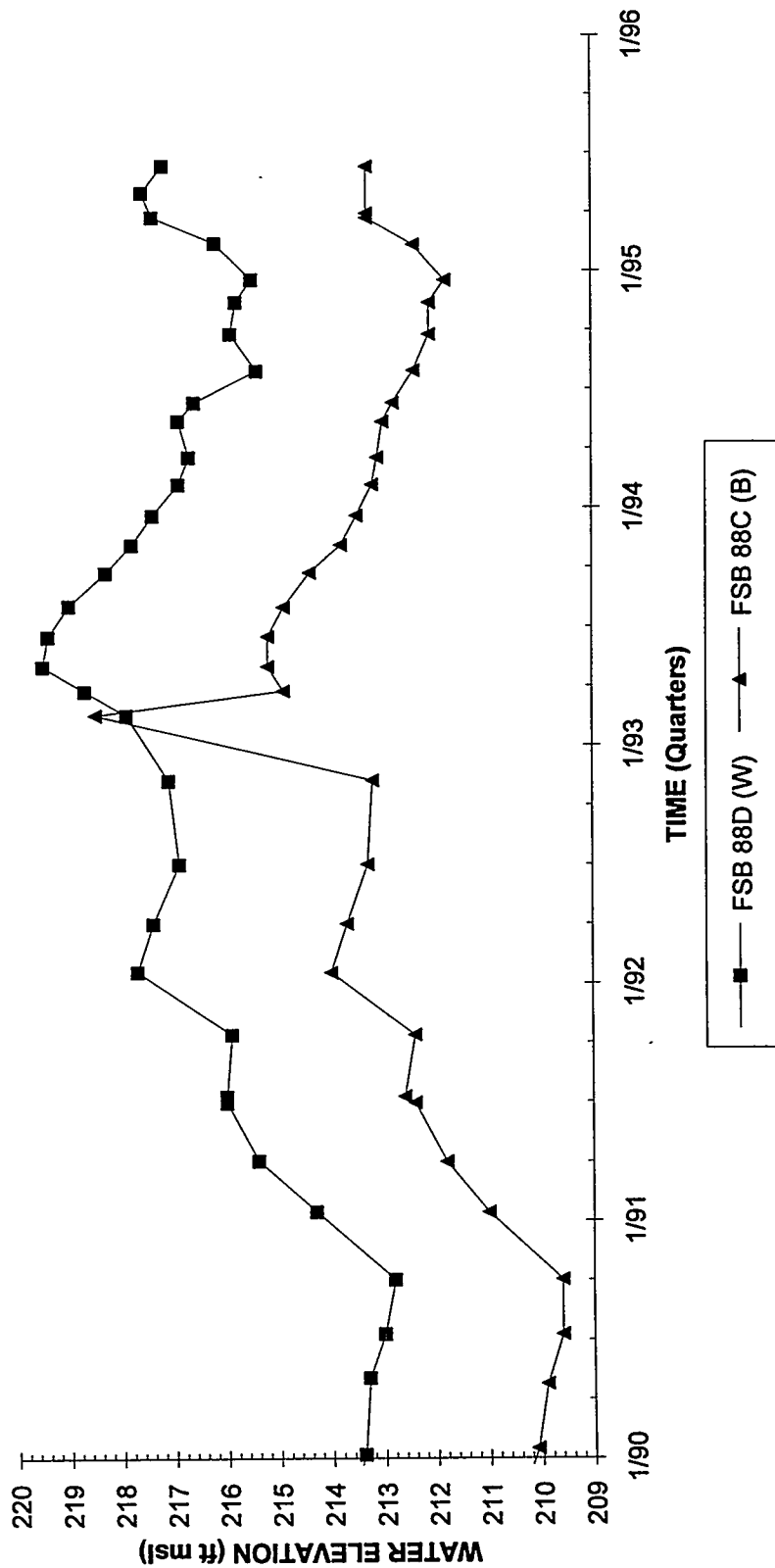
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 87



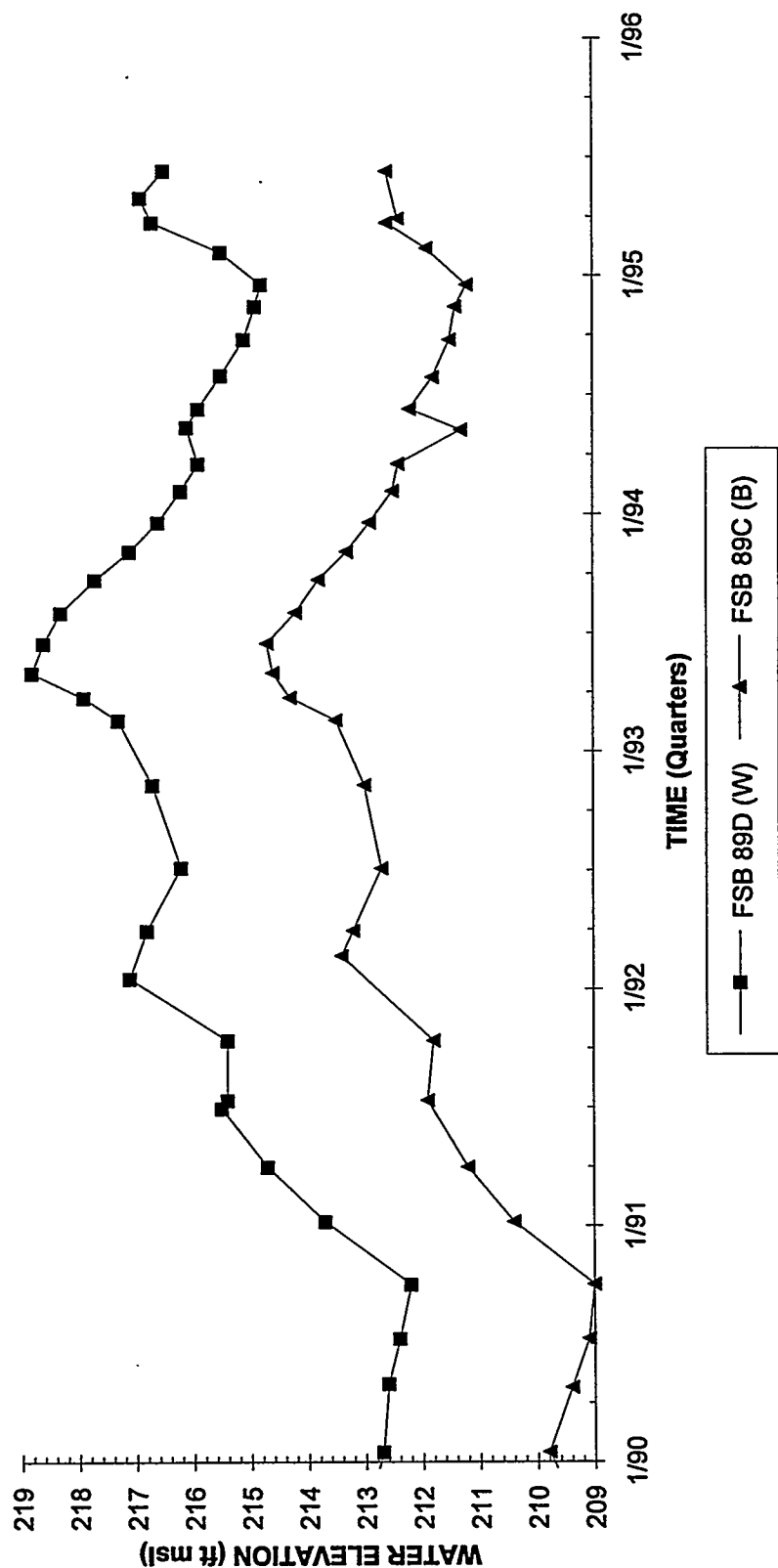
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 88



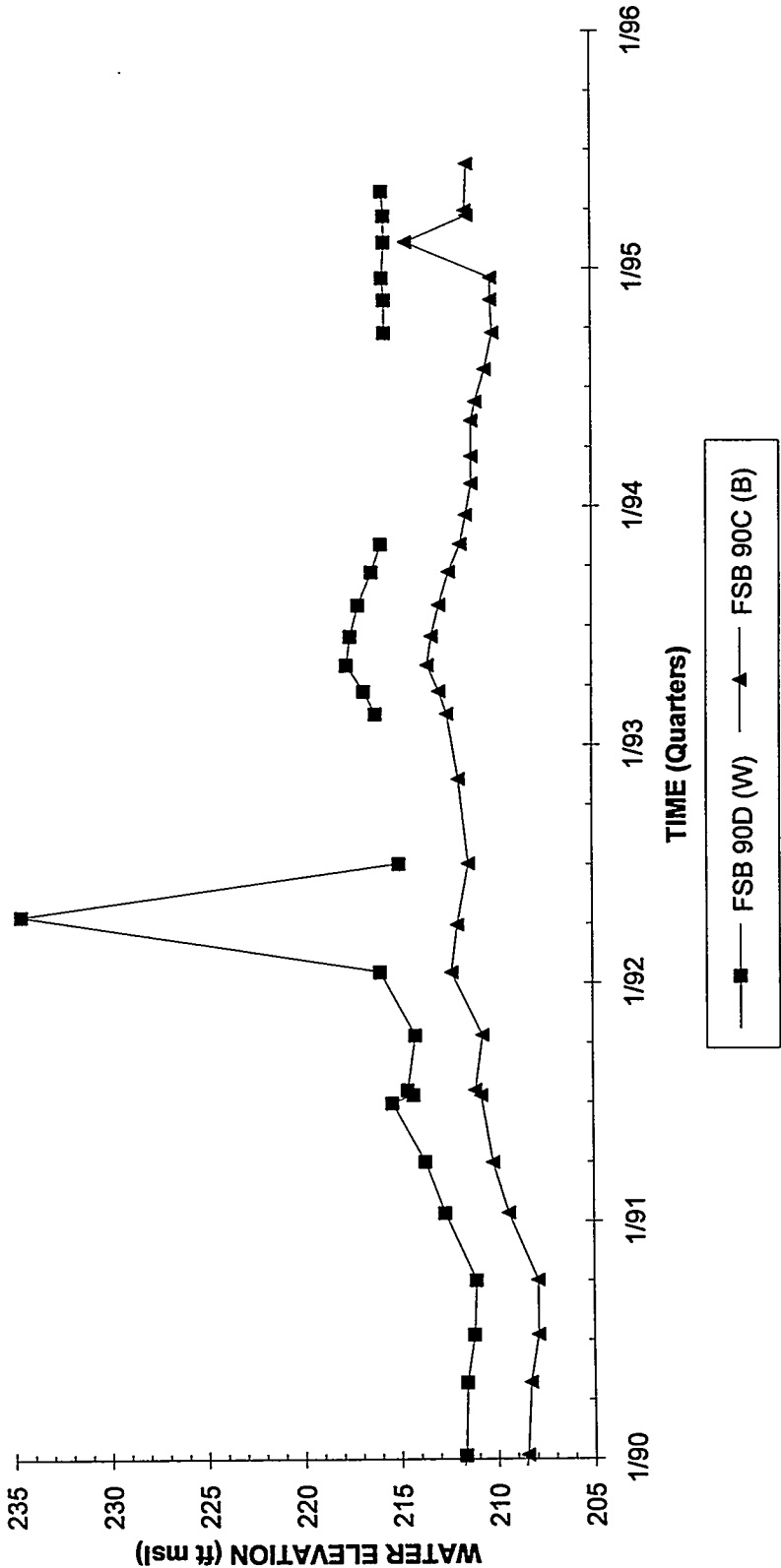
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 89



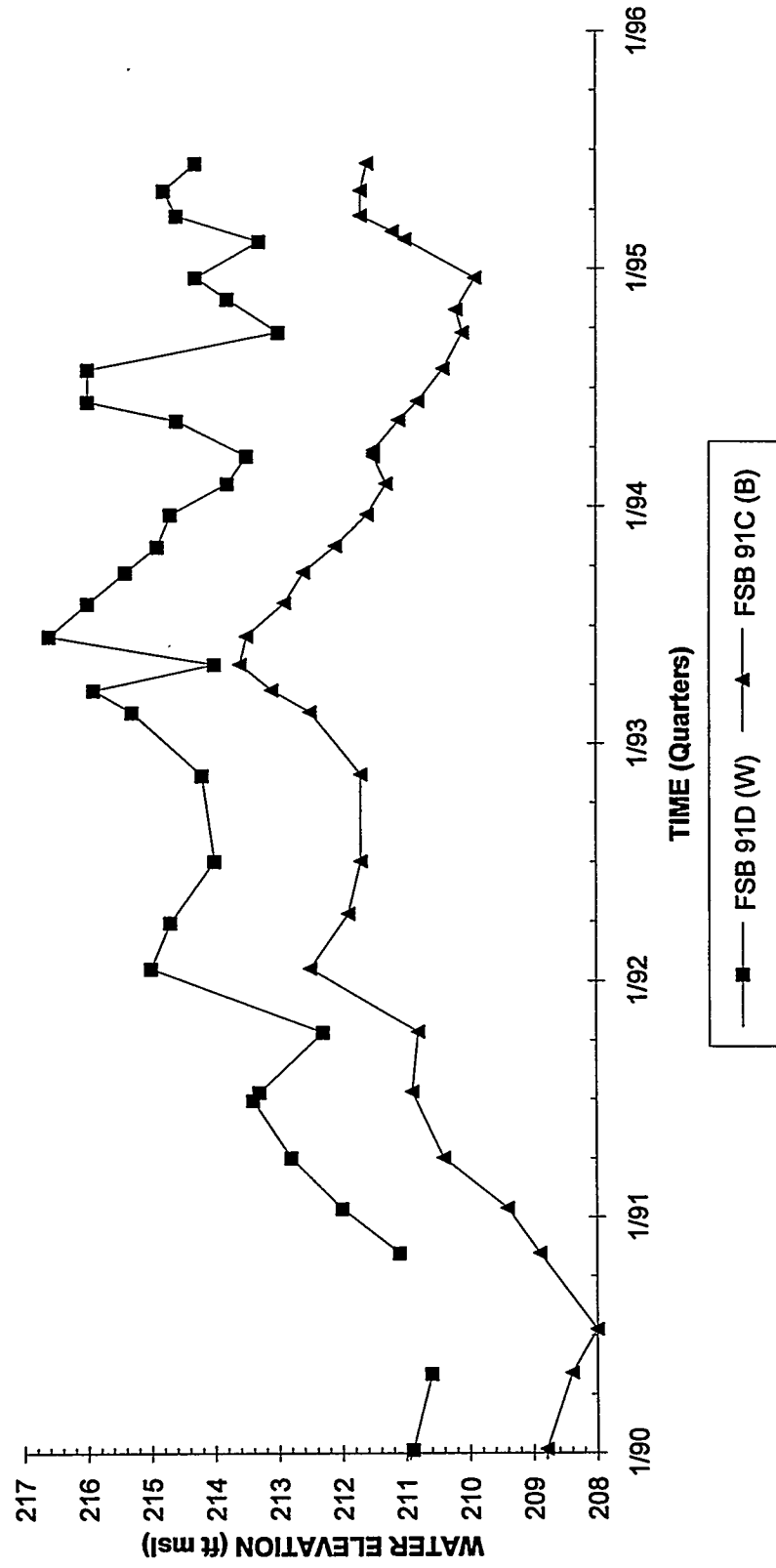
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB 90



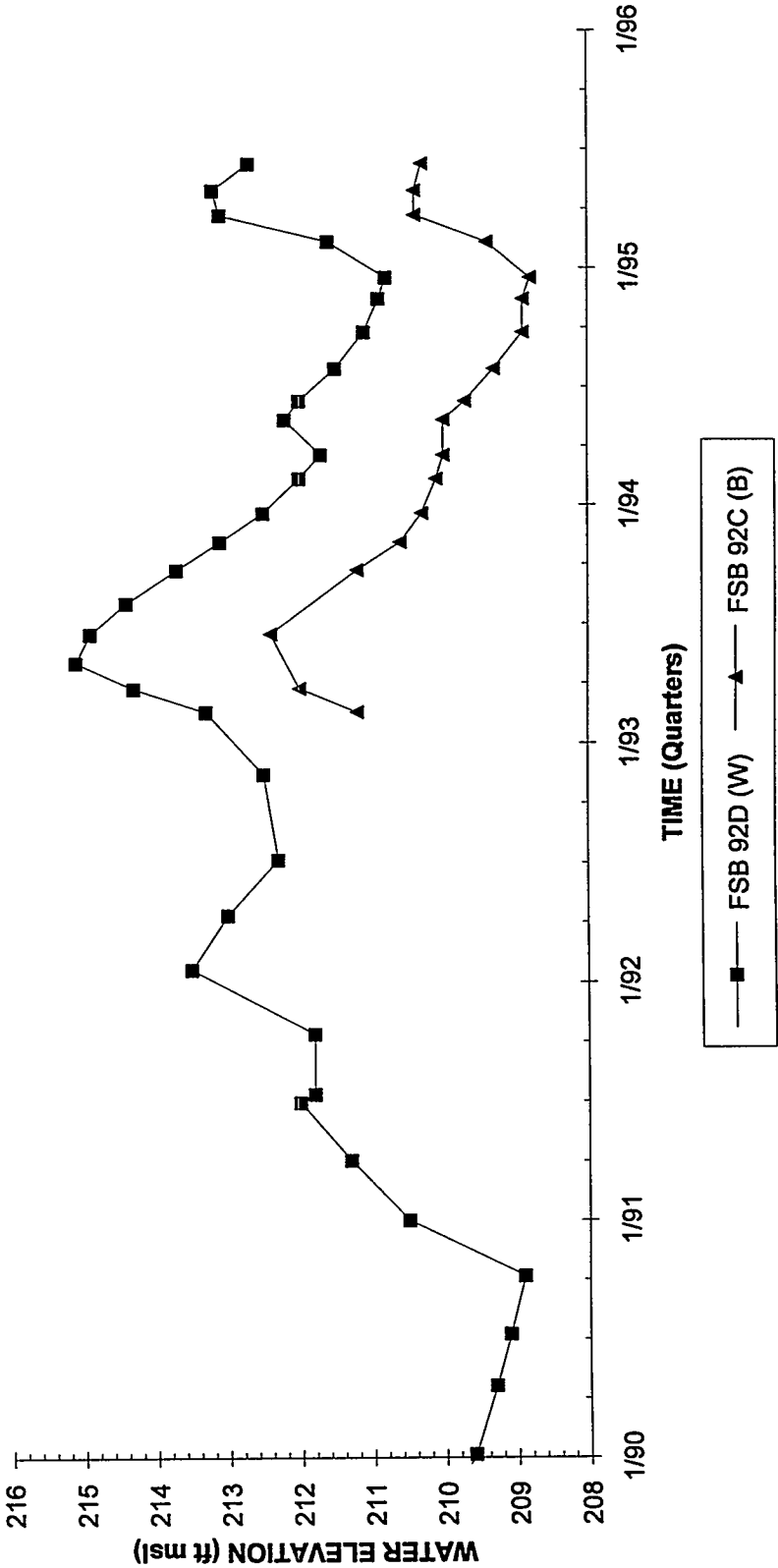
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 91



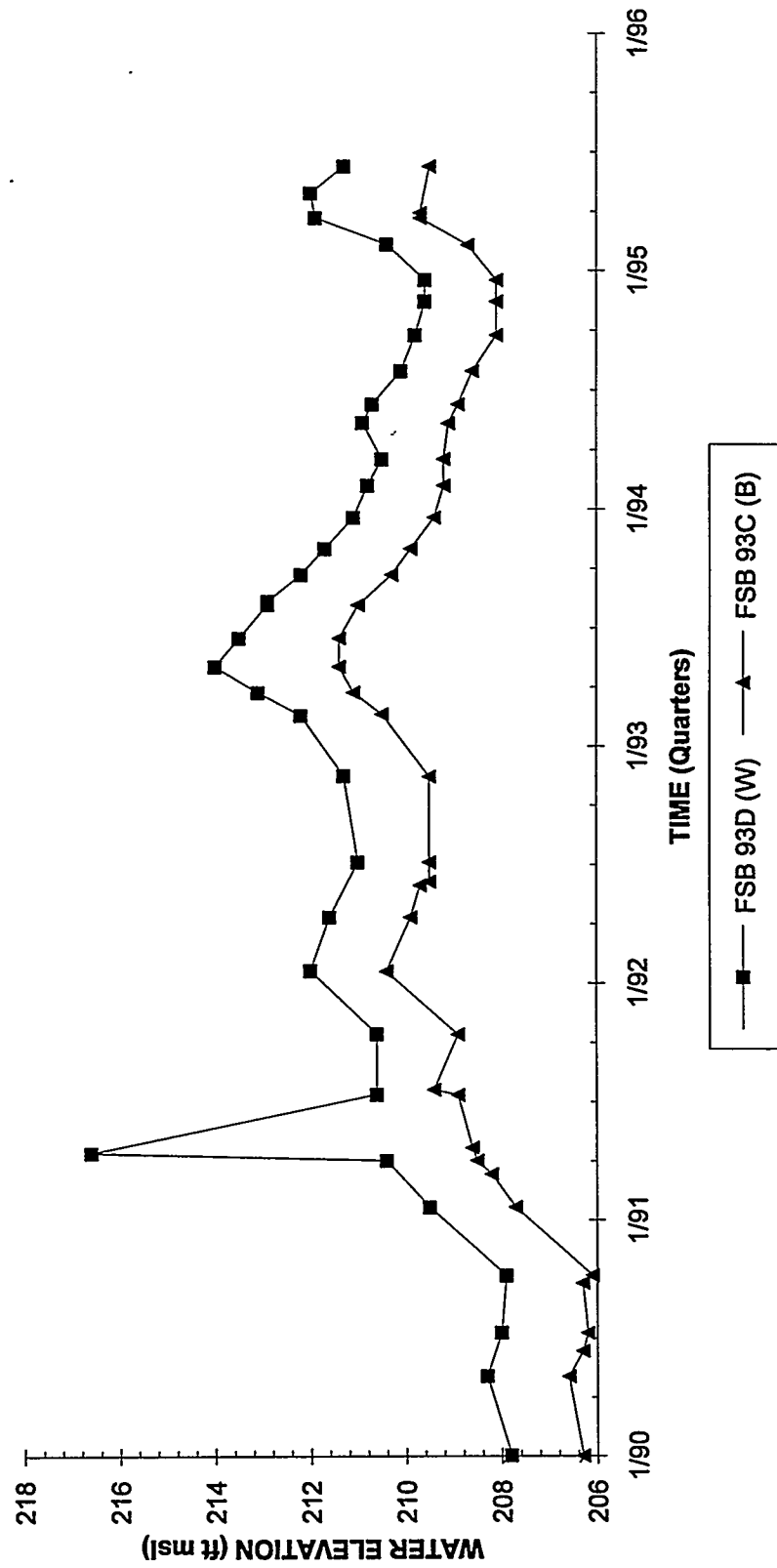
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 92



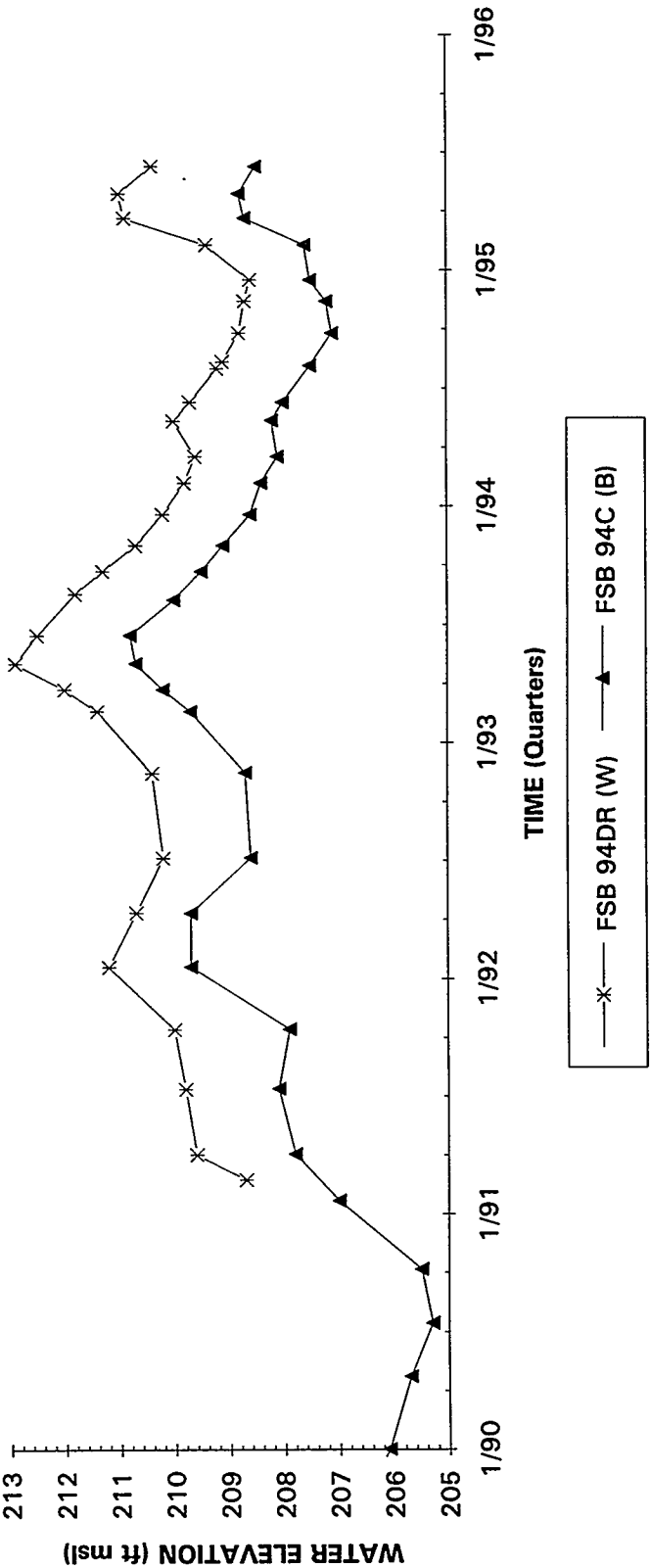
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 93



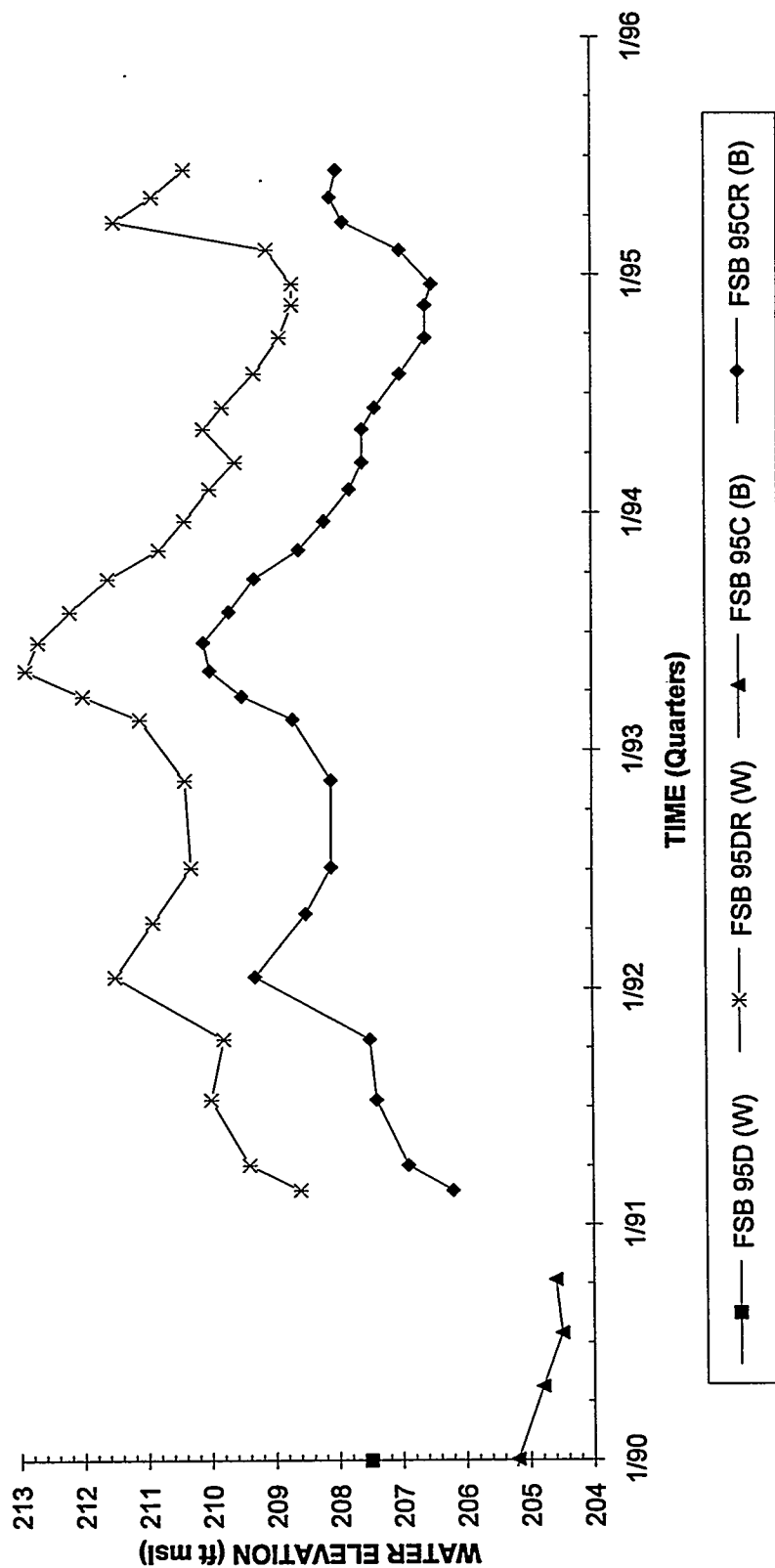
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 94



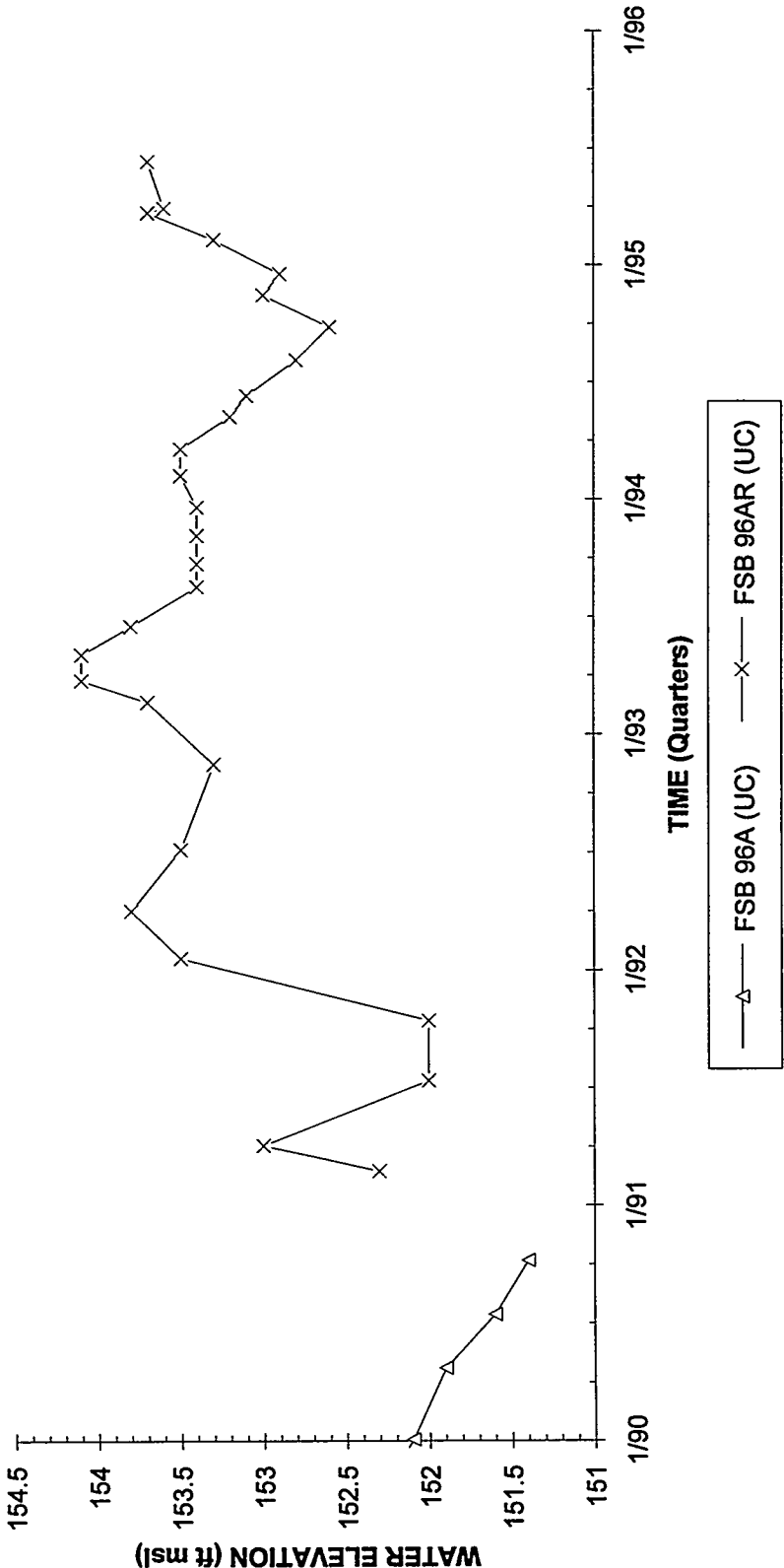
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 95



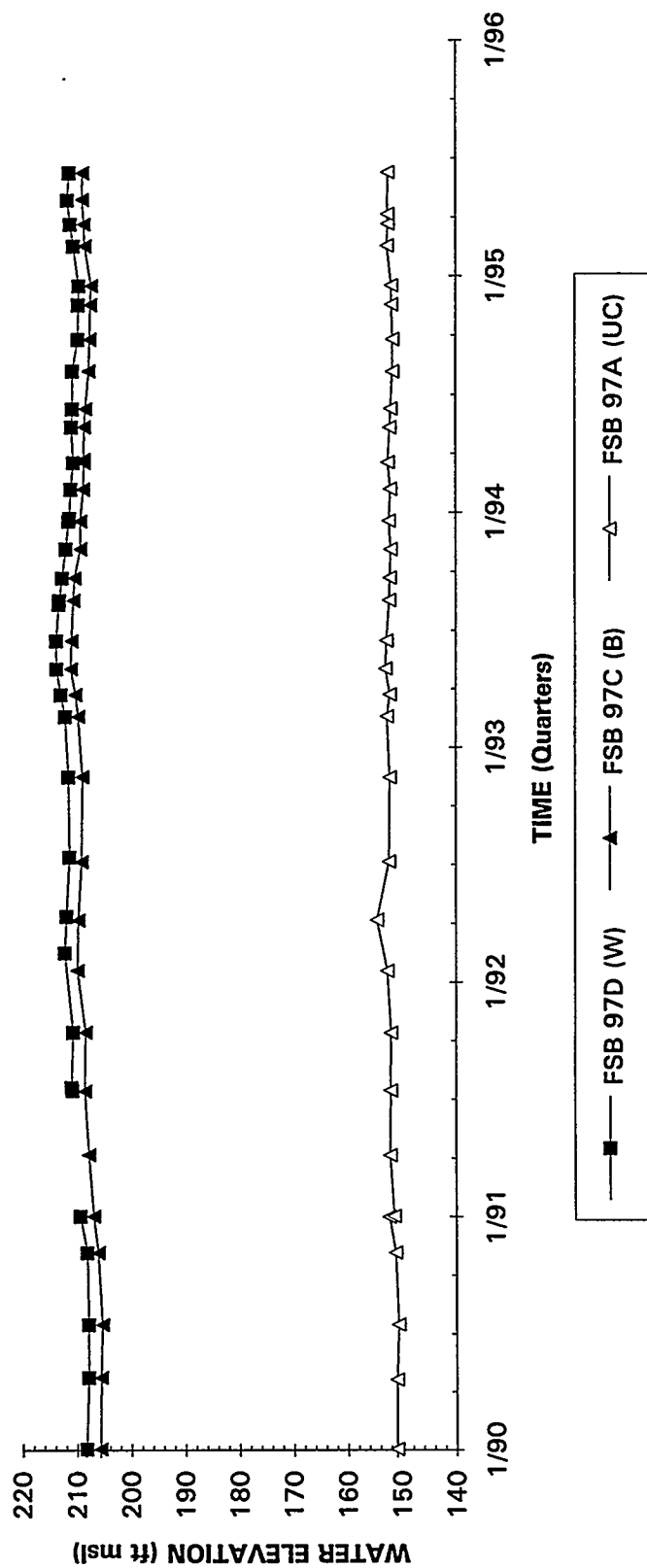
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB 96



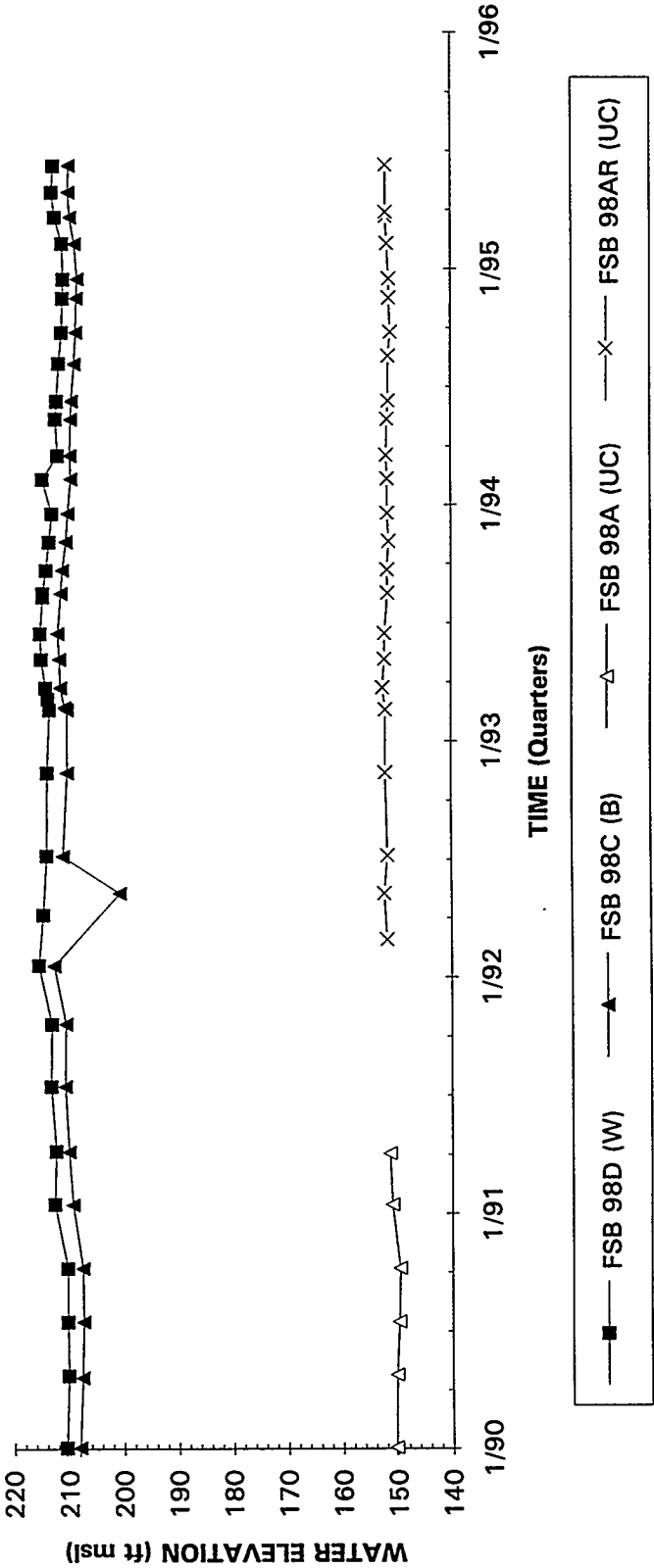
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 97



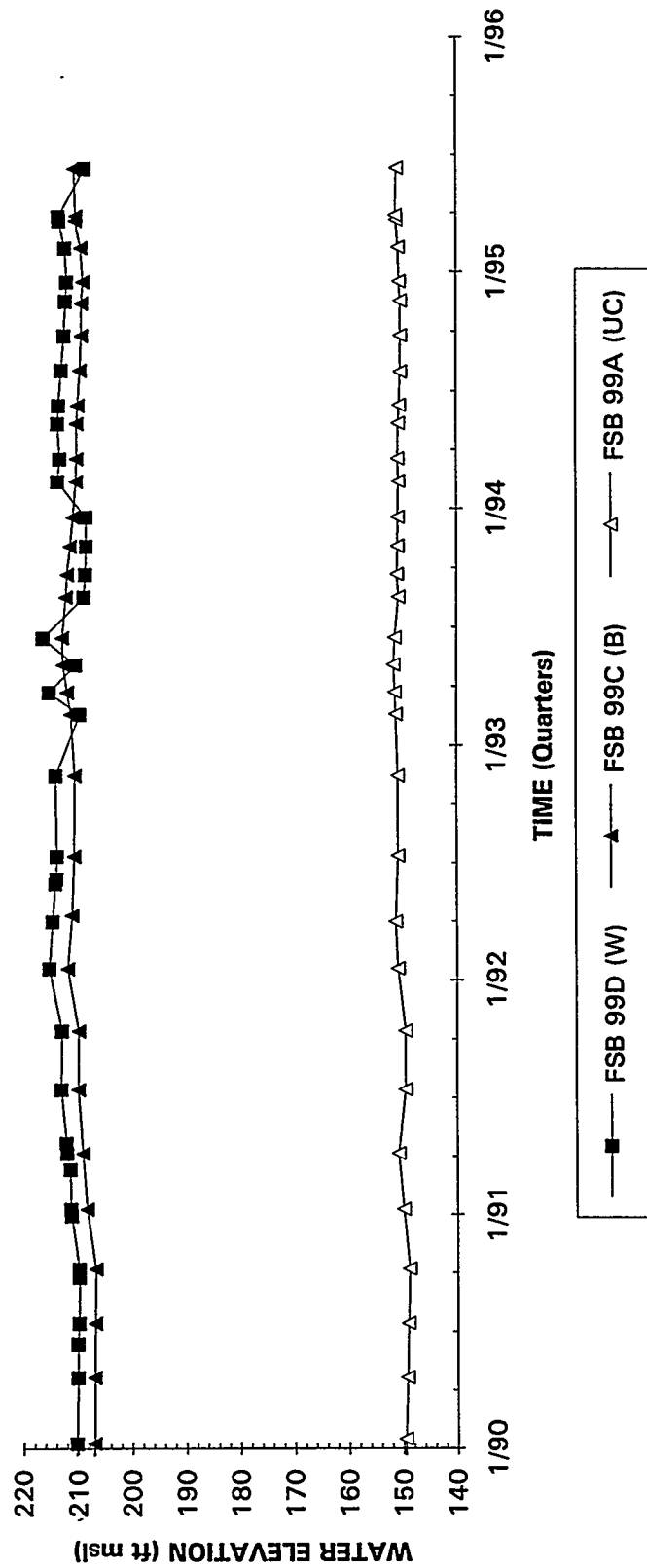
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB 98



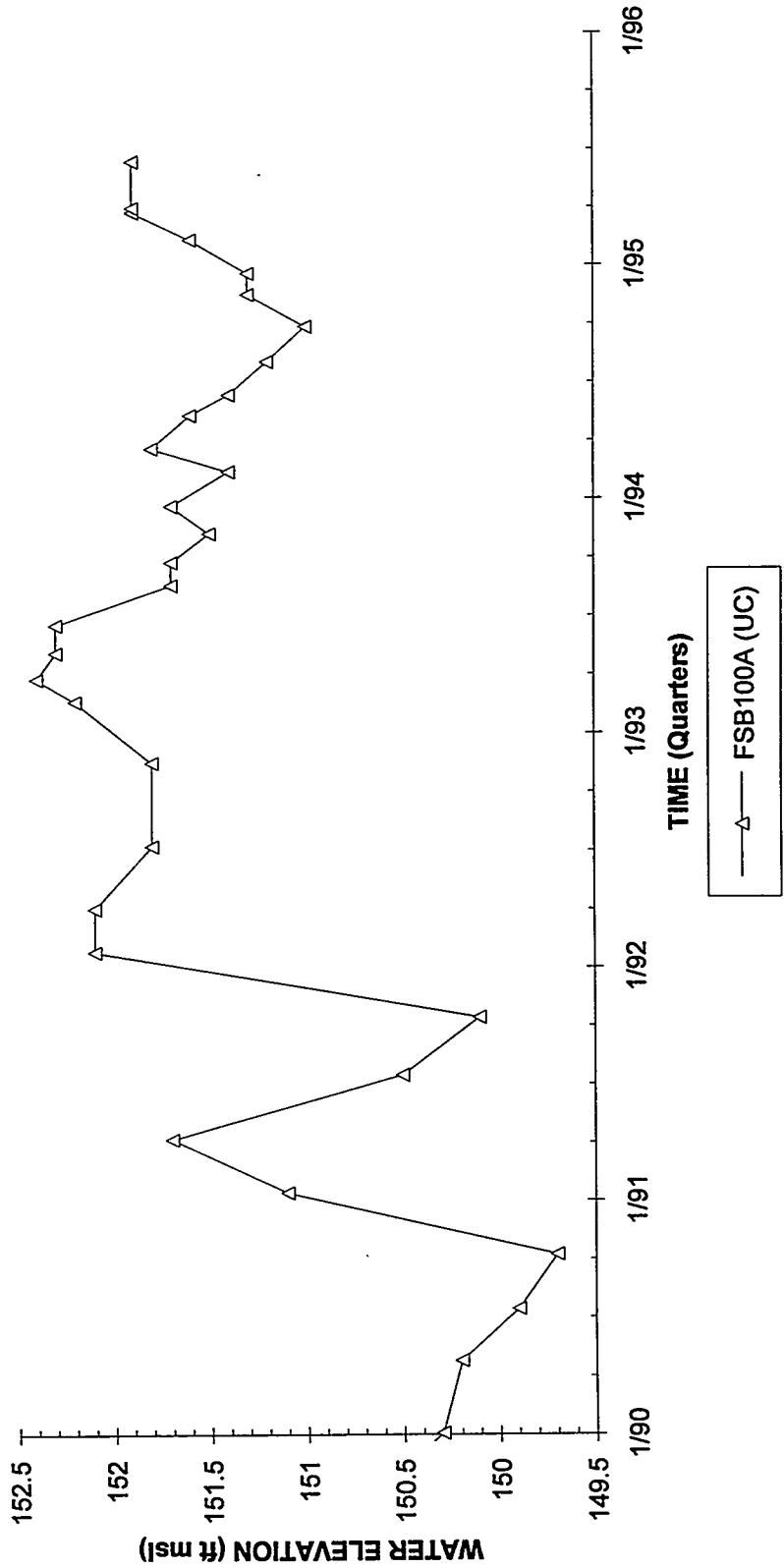
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB 99



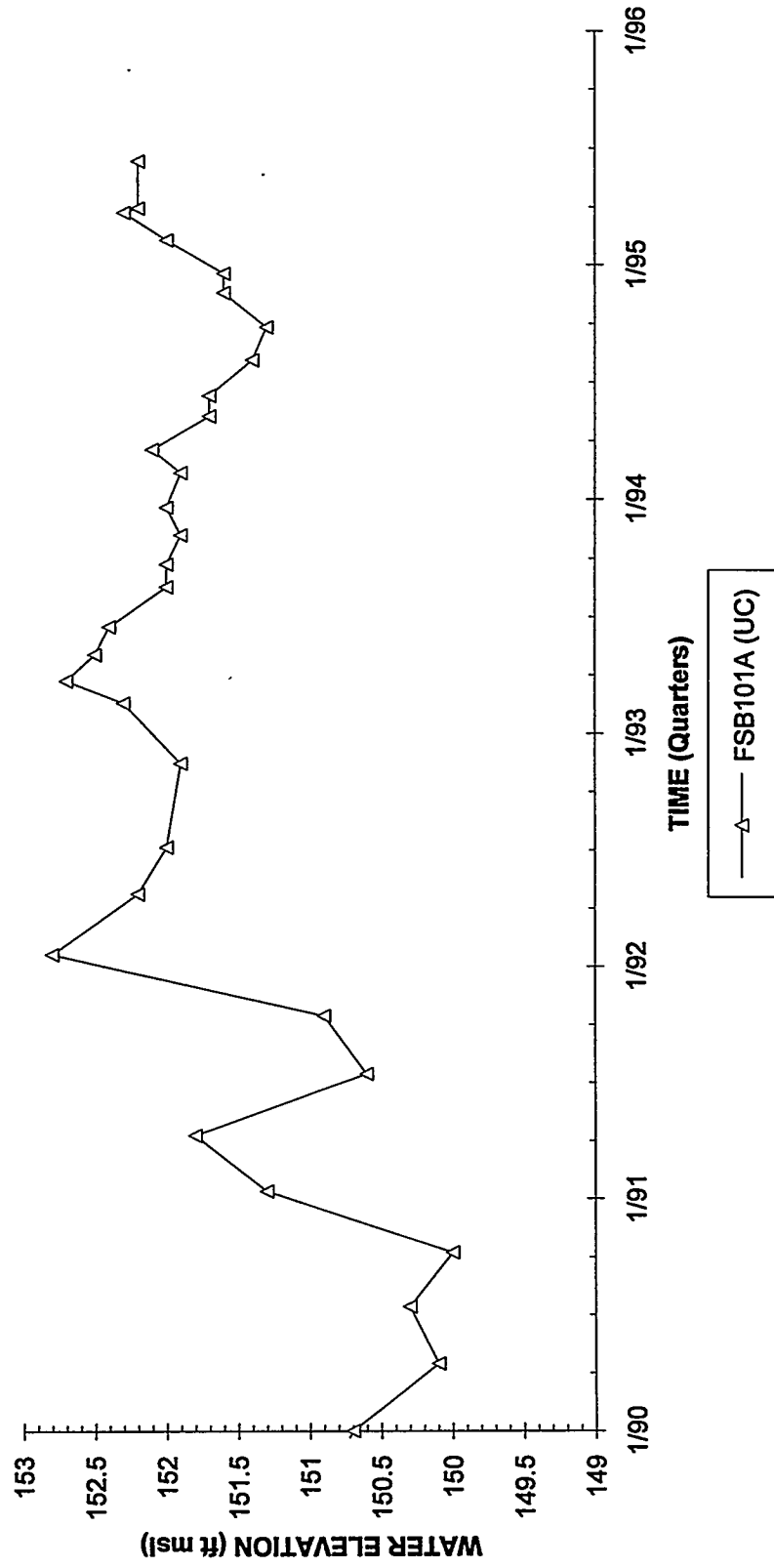
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB100A



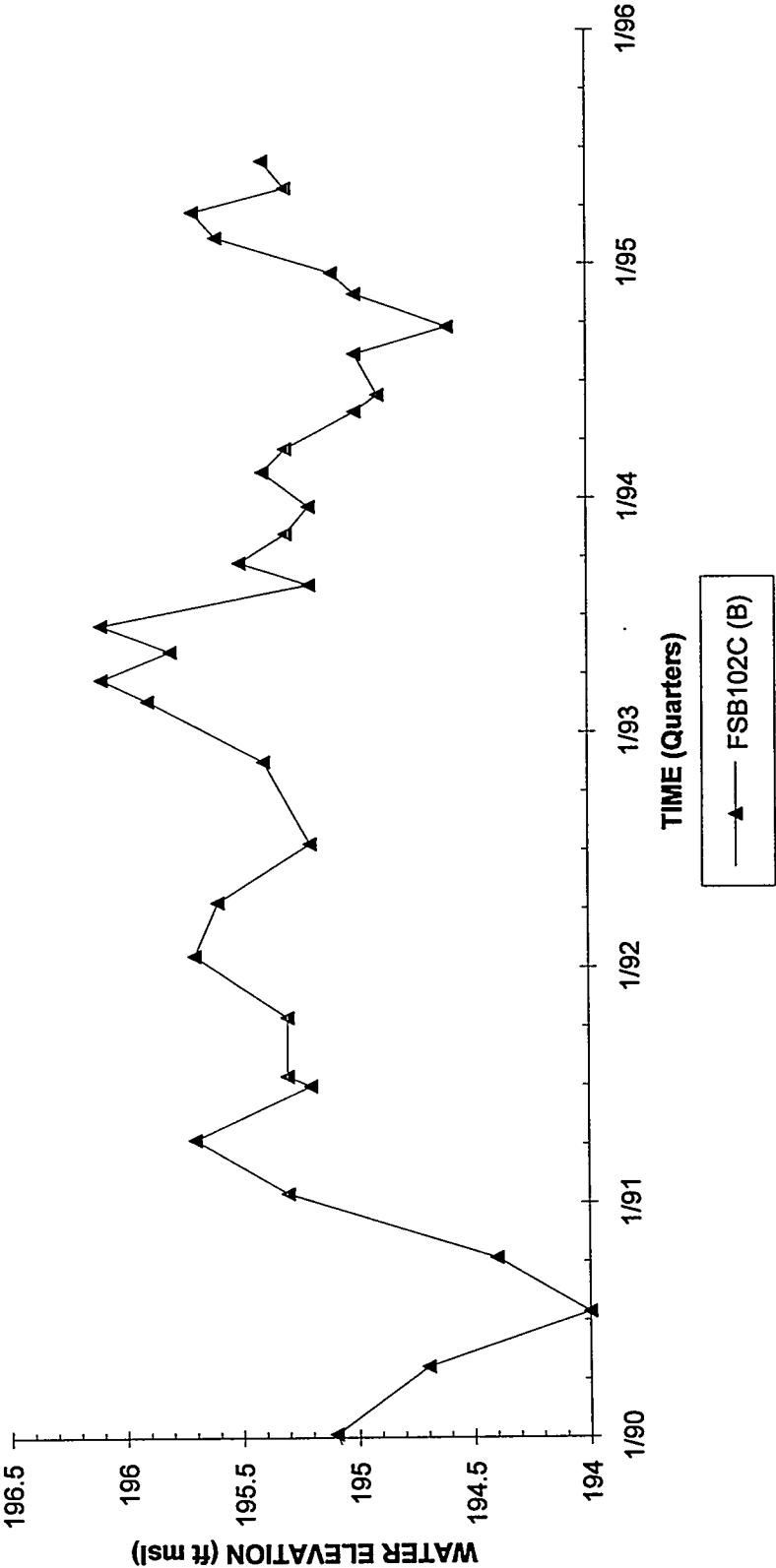
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB101A



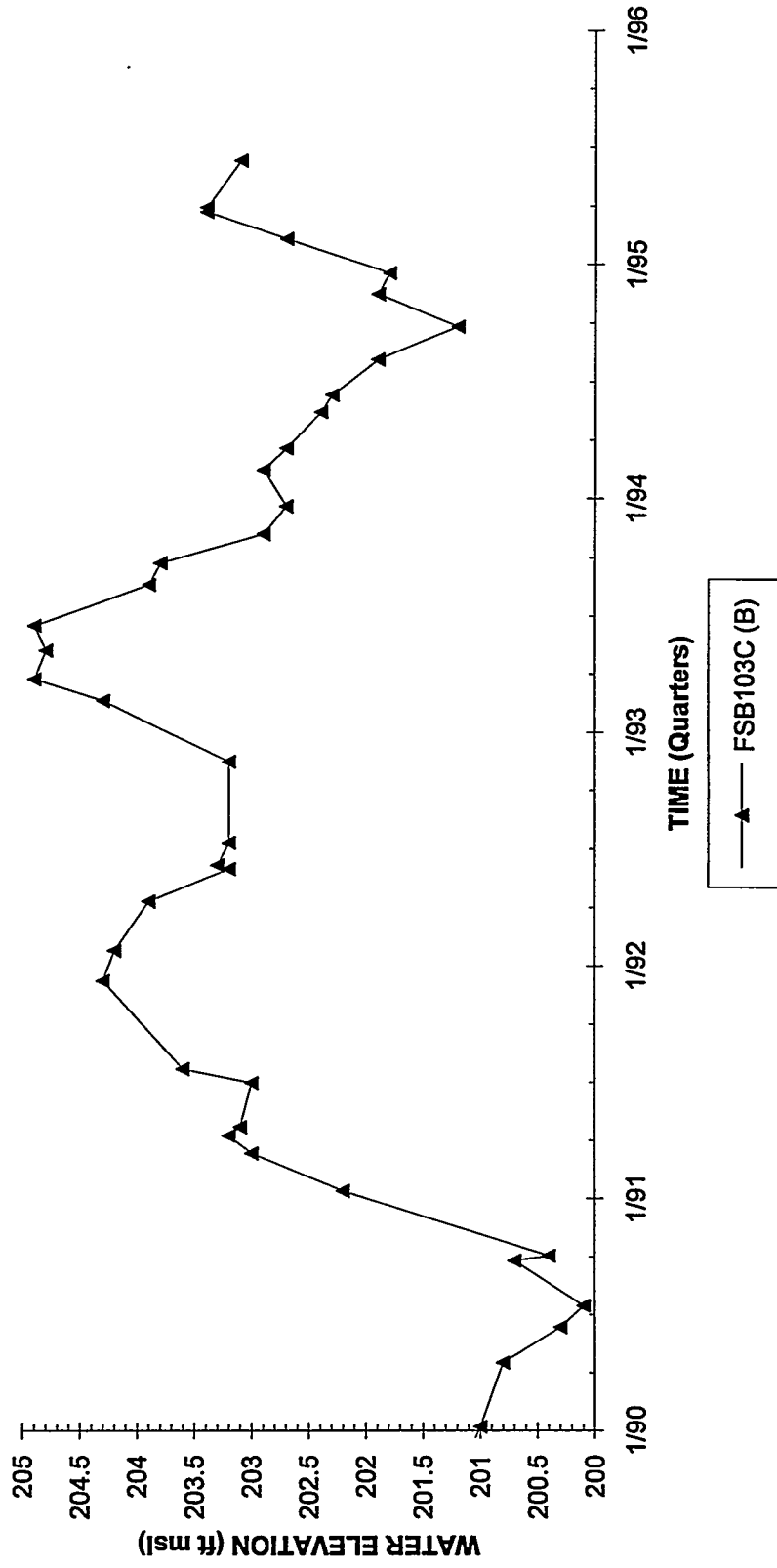
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSB102C



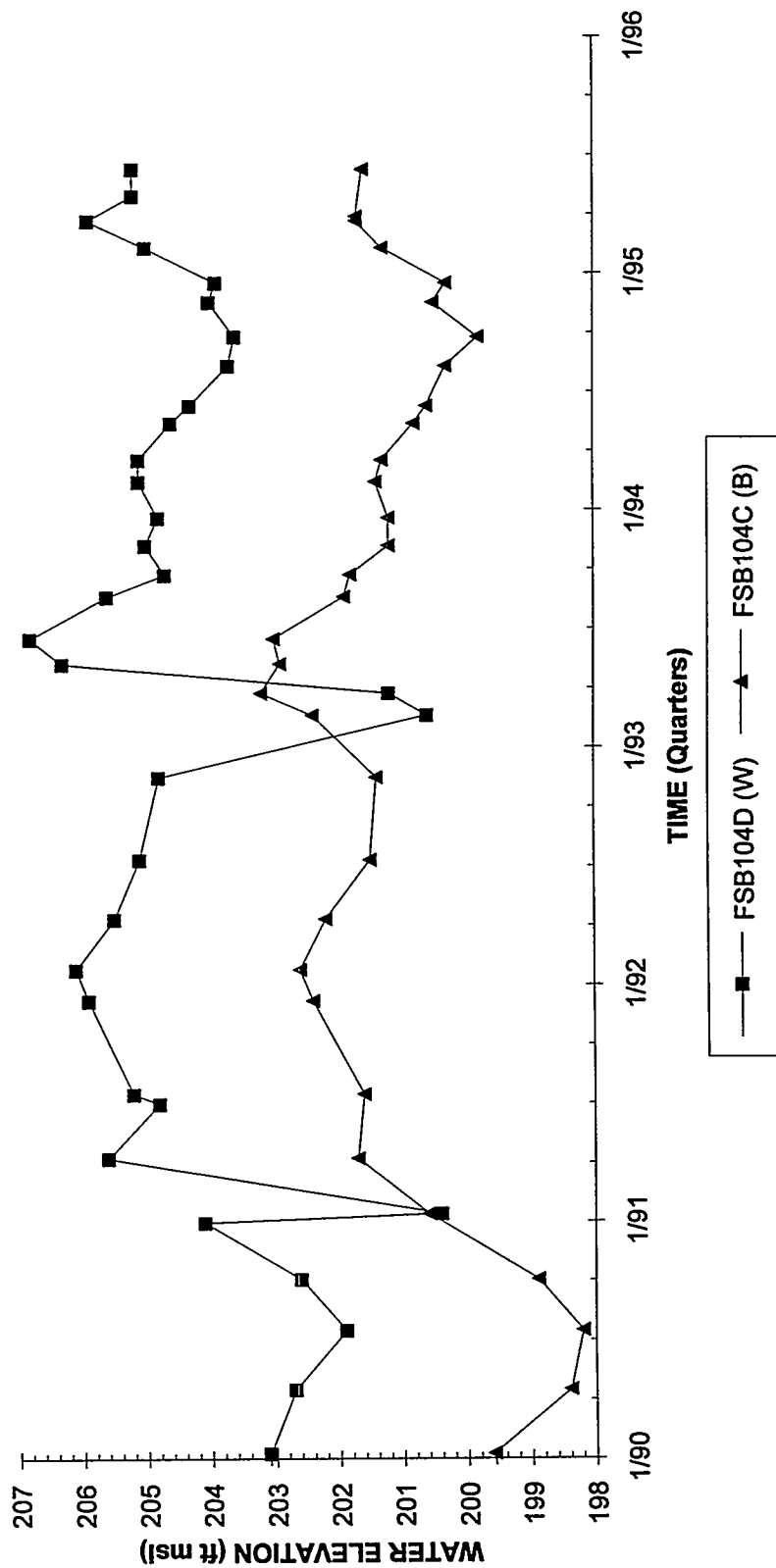
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB103C



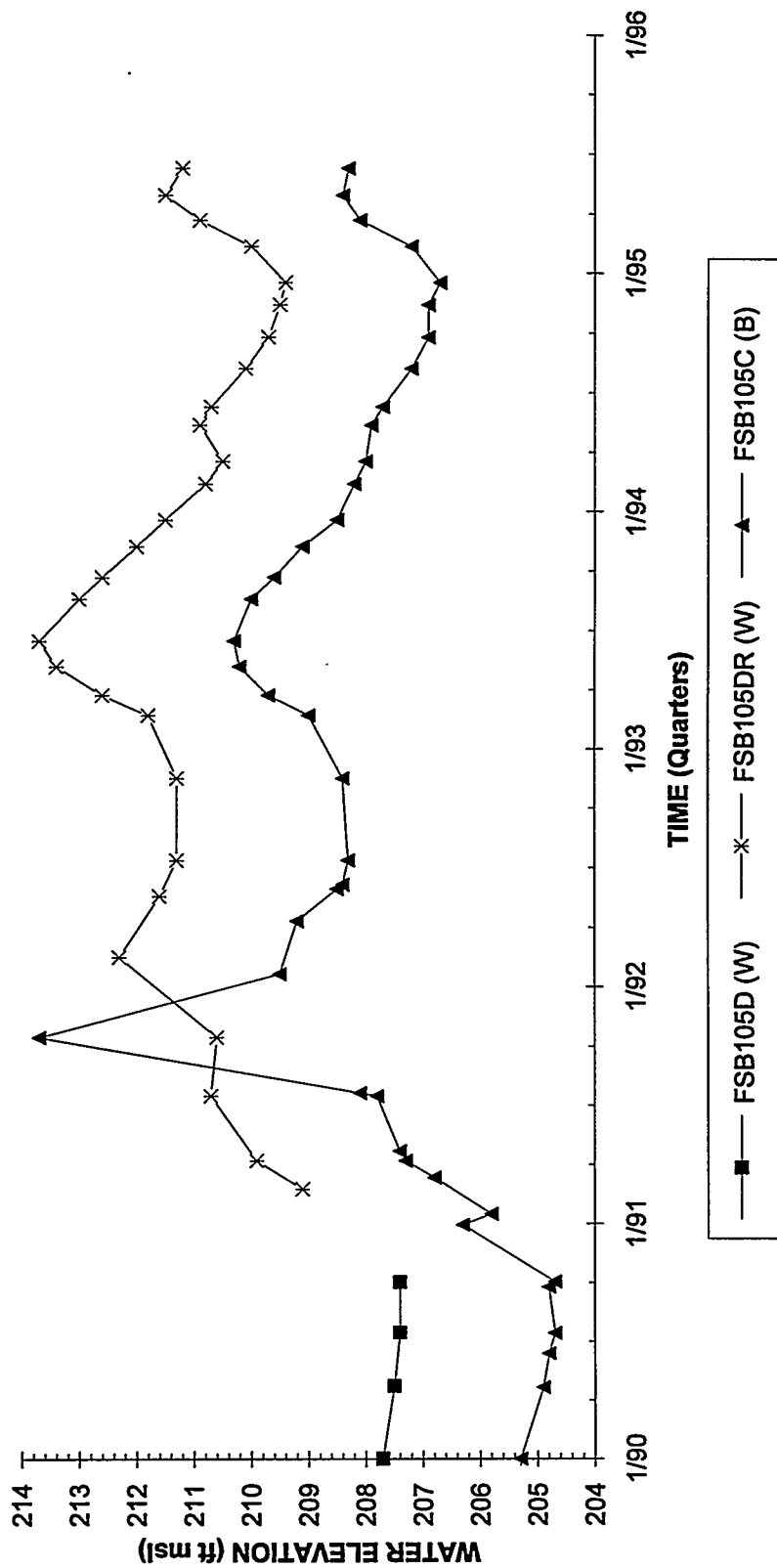
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB104



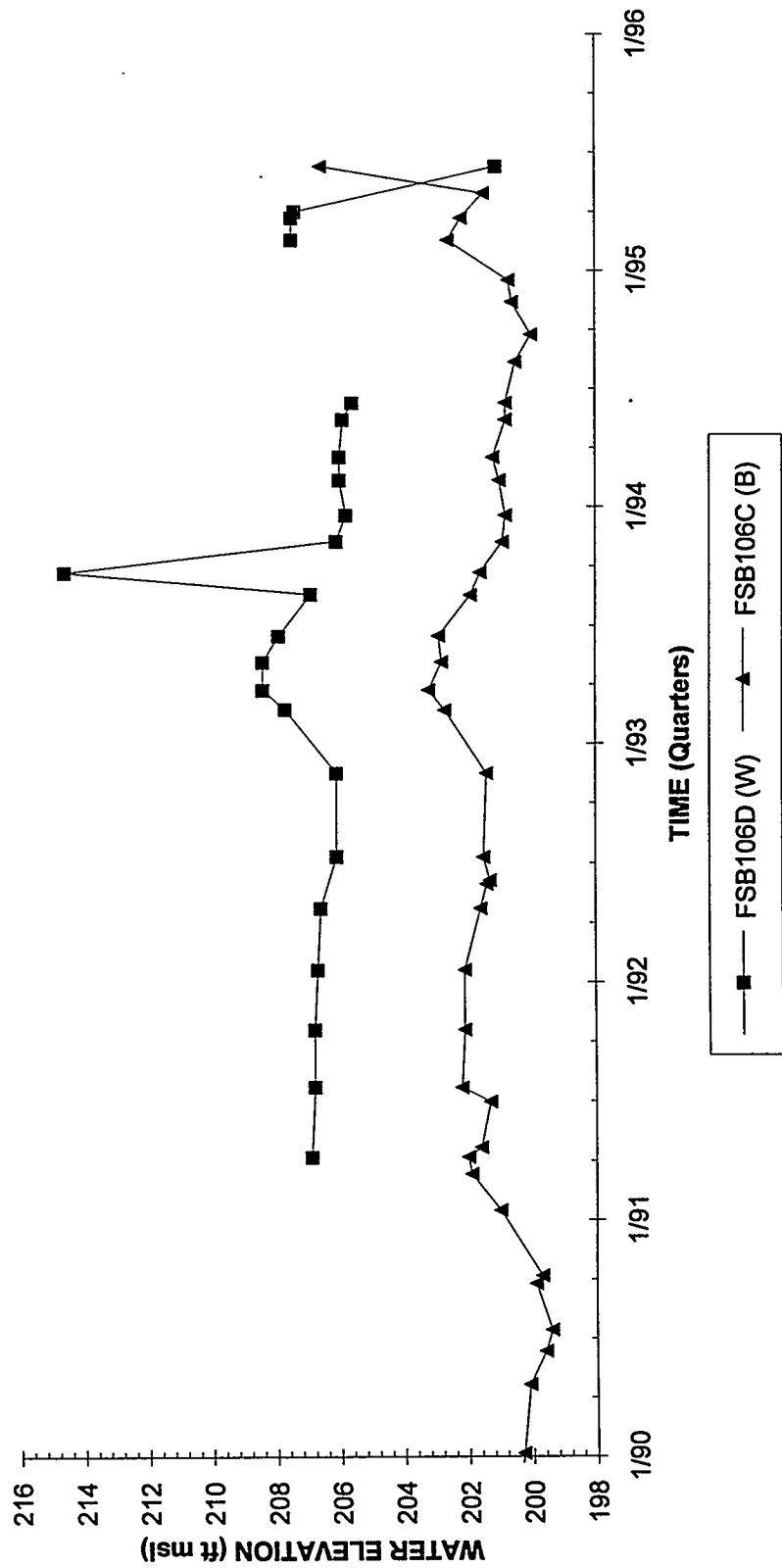
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB105



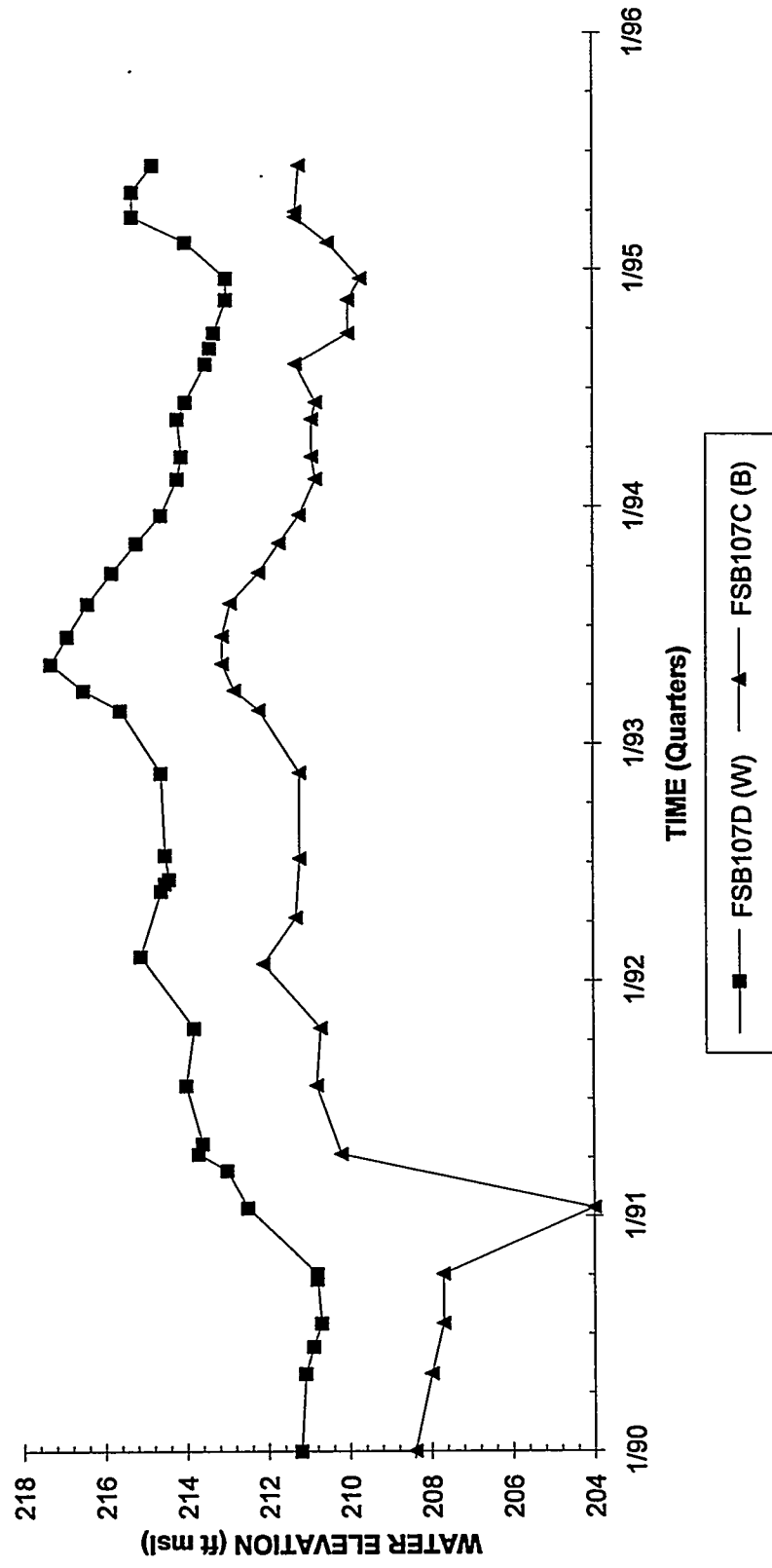
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB106



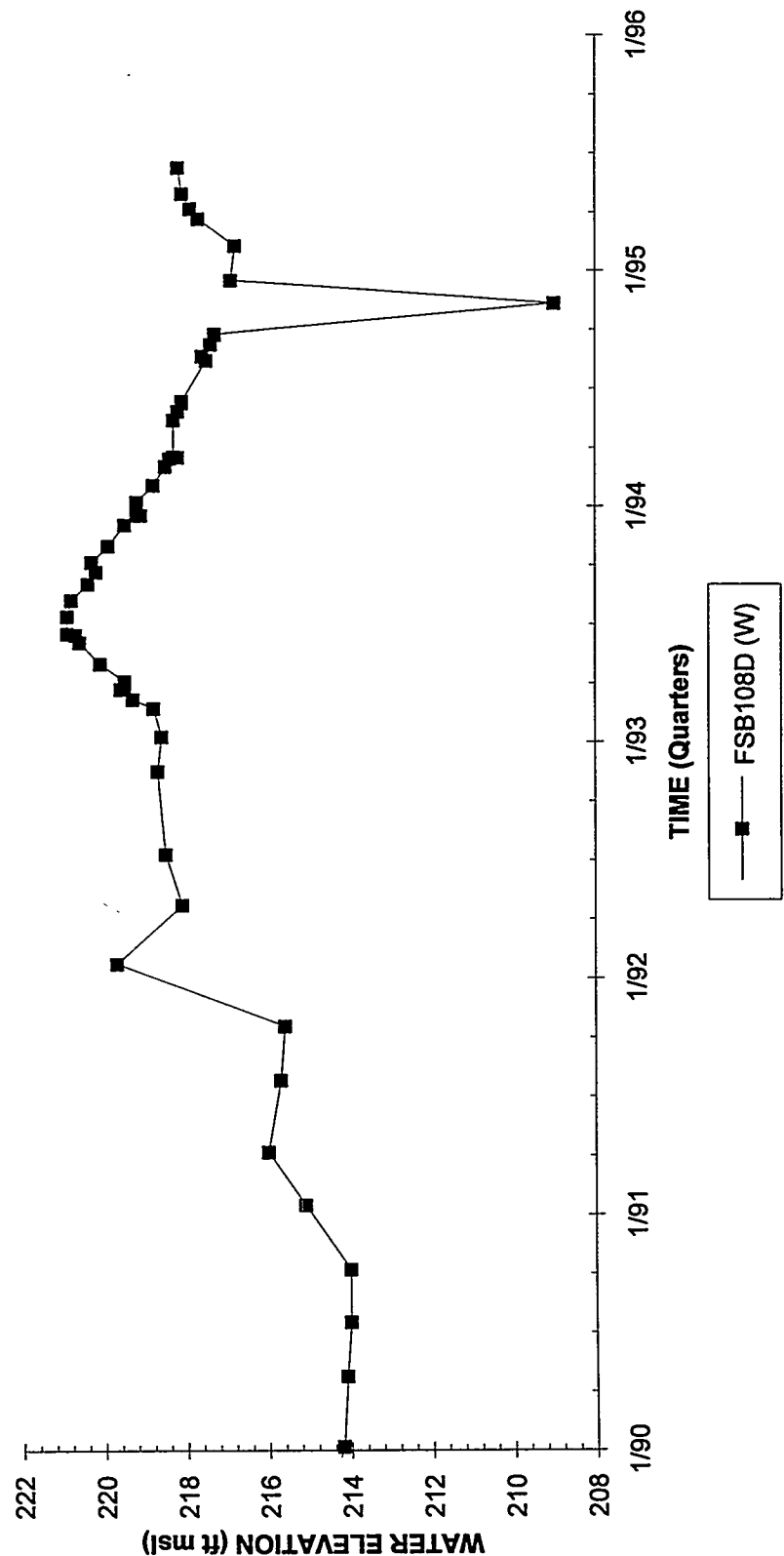
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB107



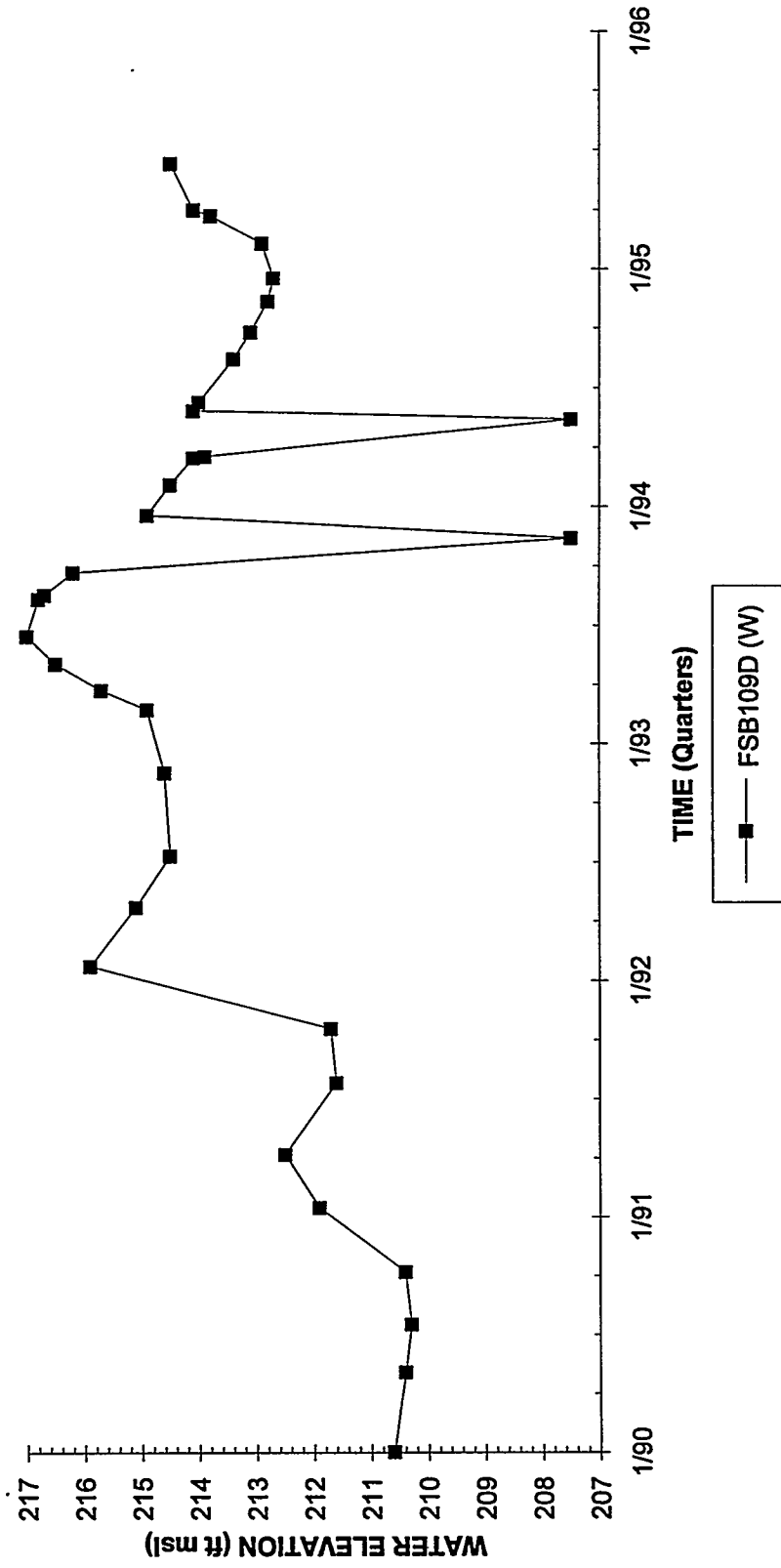
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSB108D



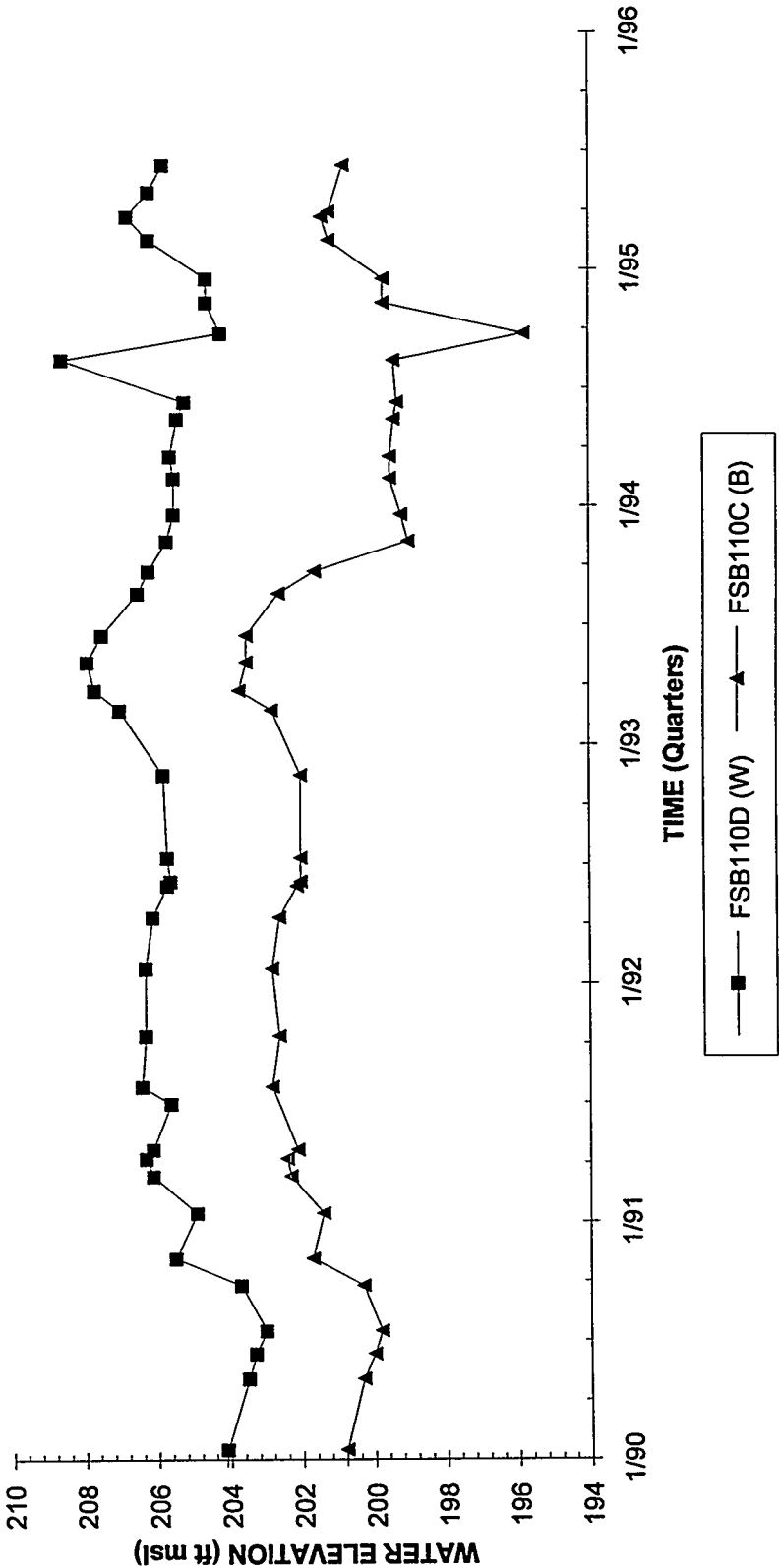
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB109D



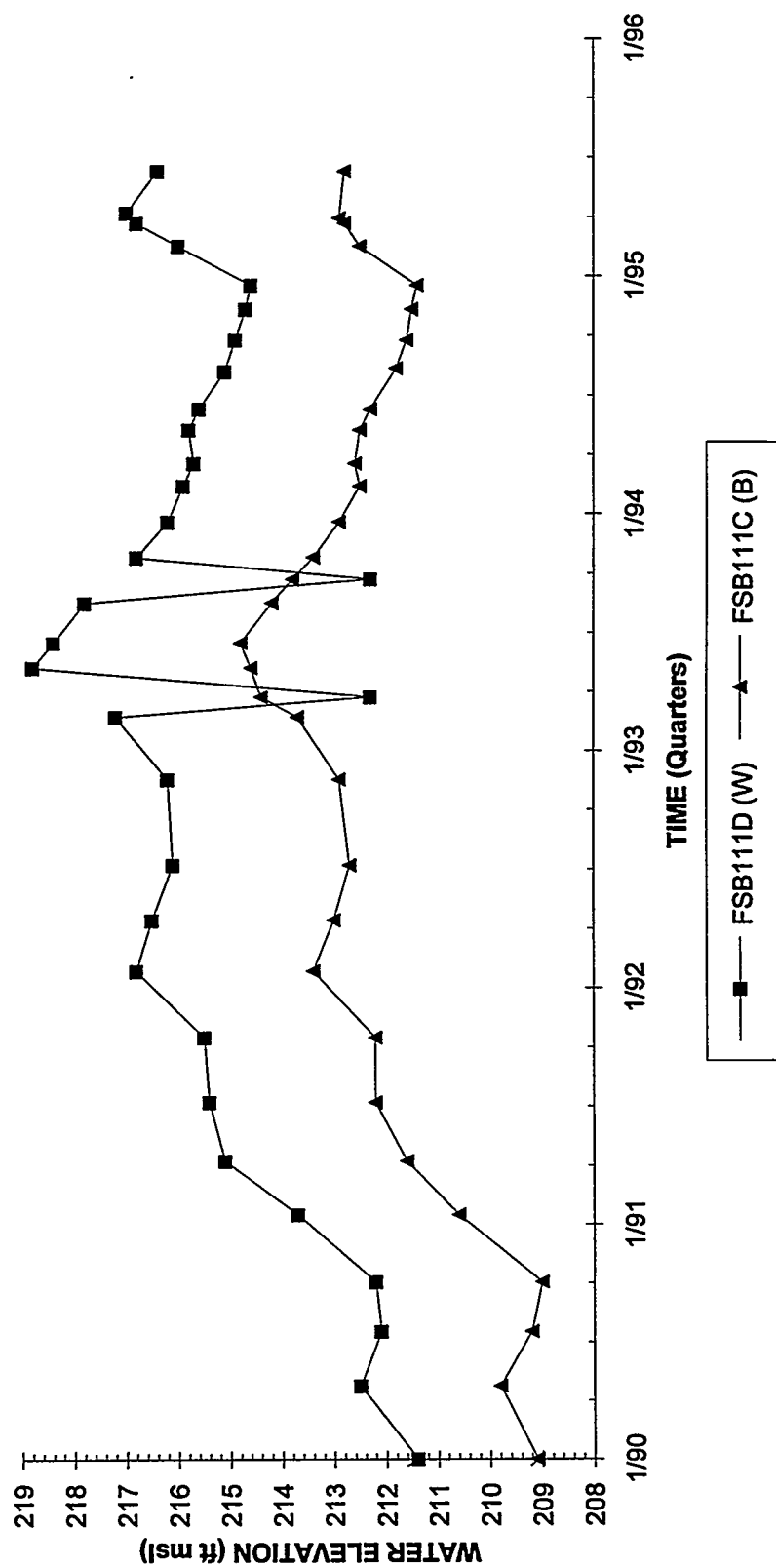
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB110



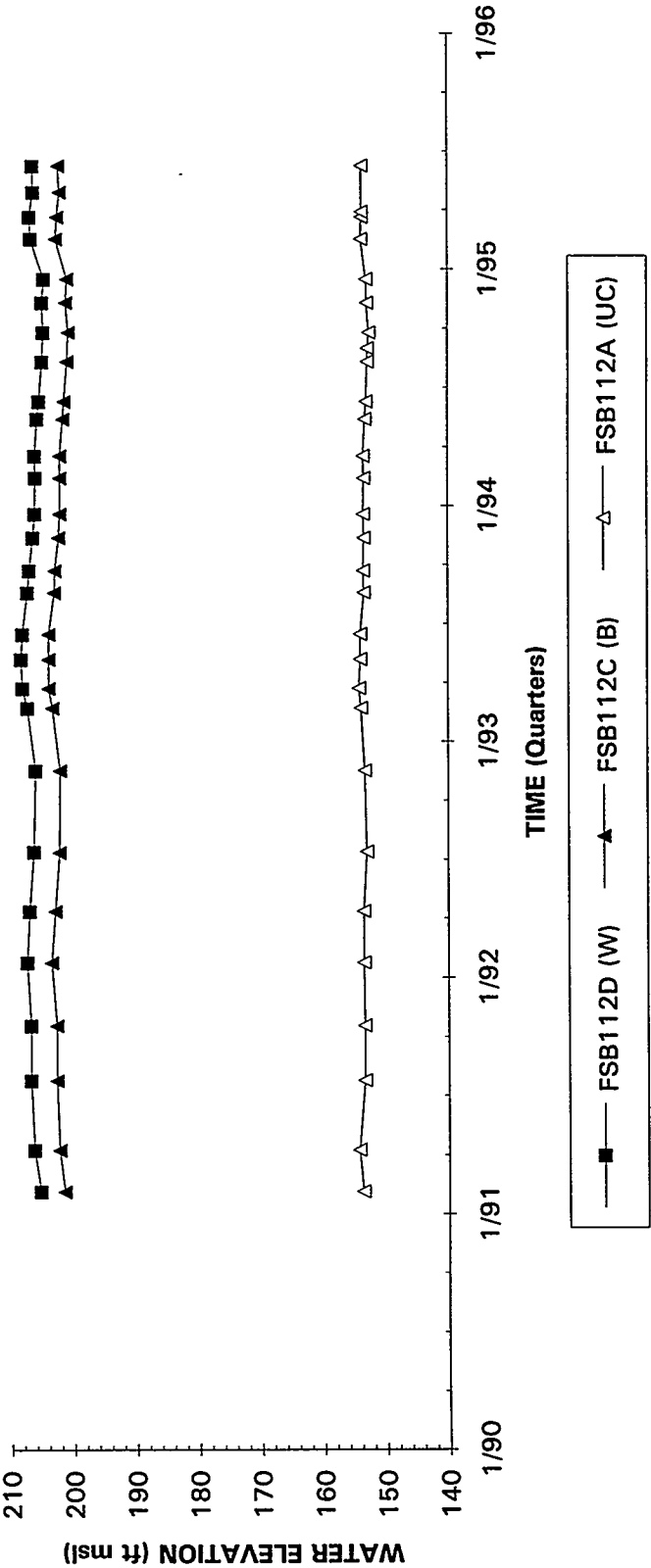
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB111



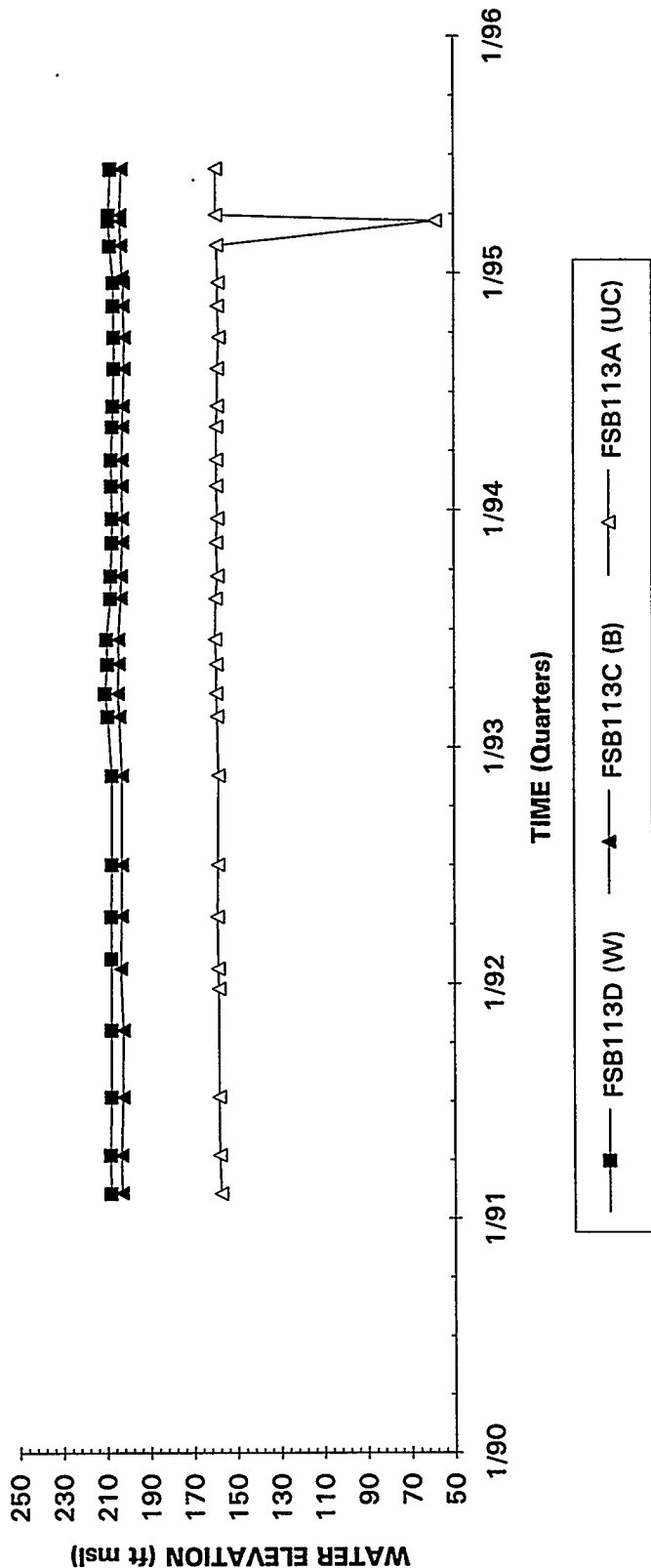
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB112



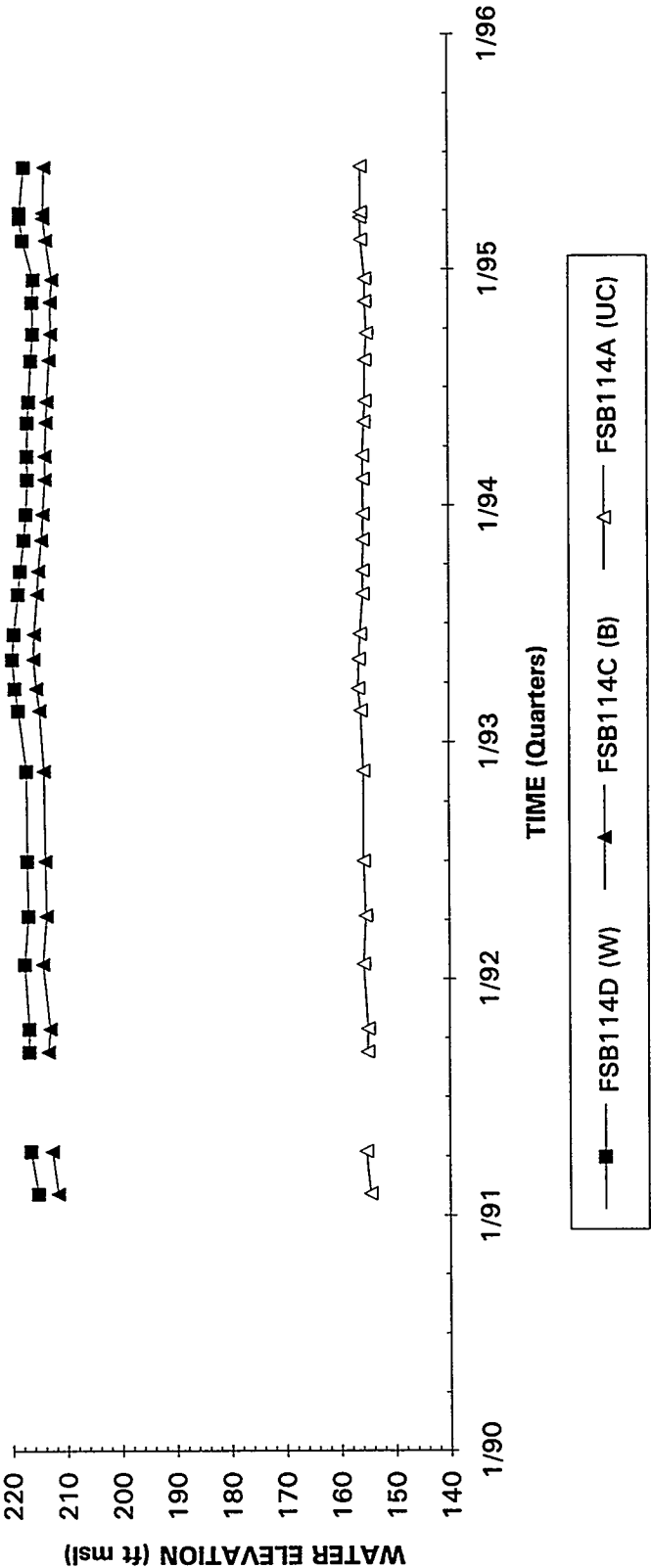
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB113



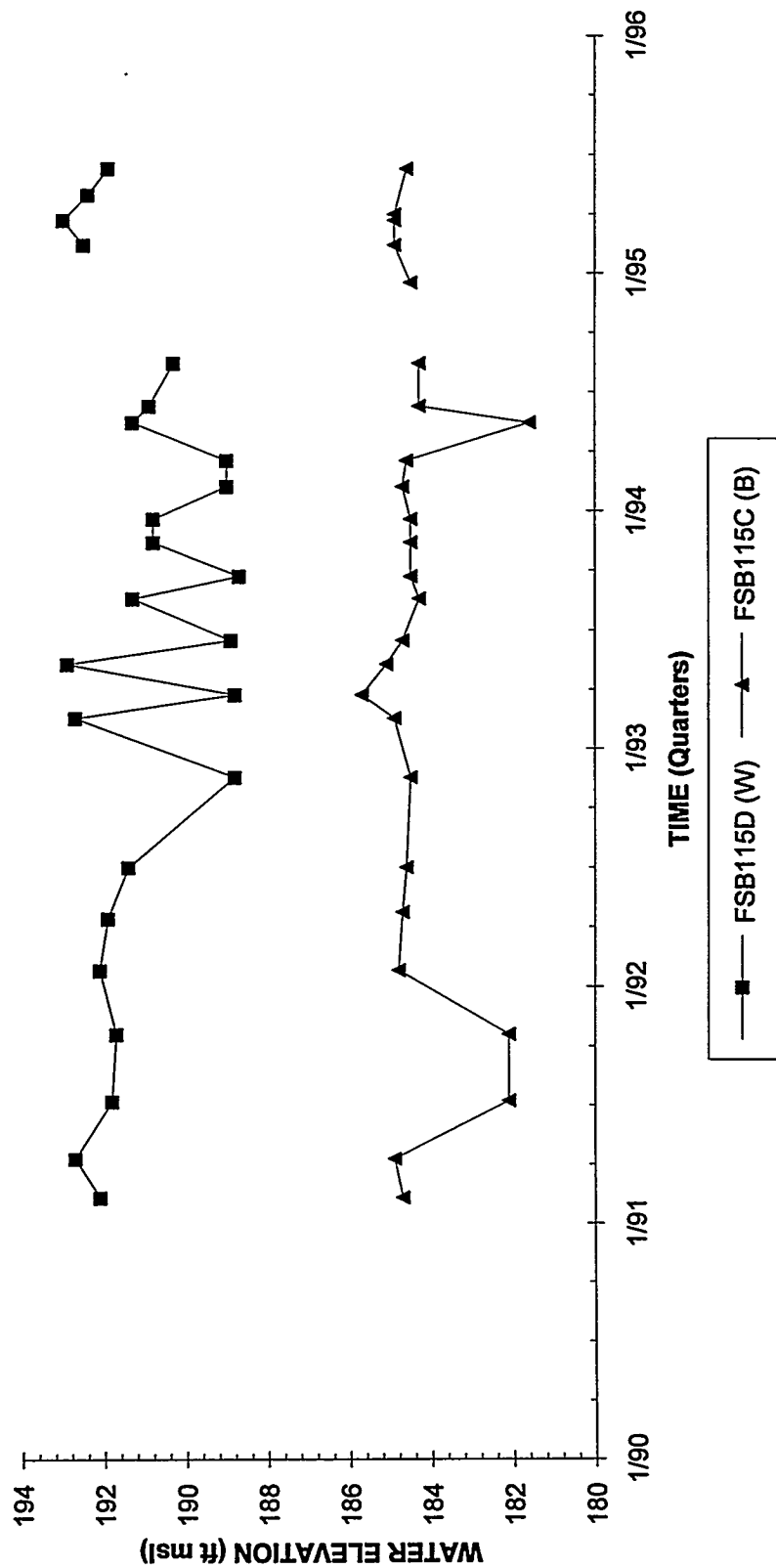
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB114



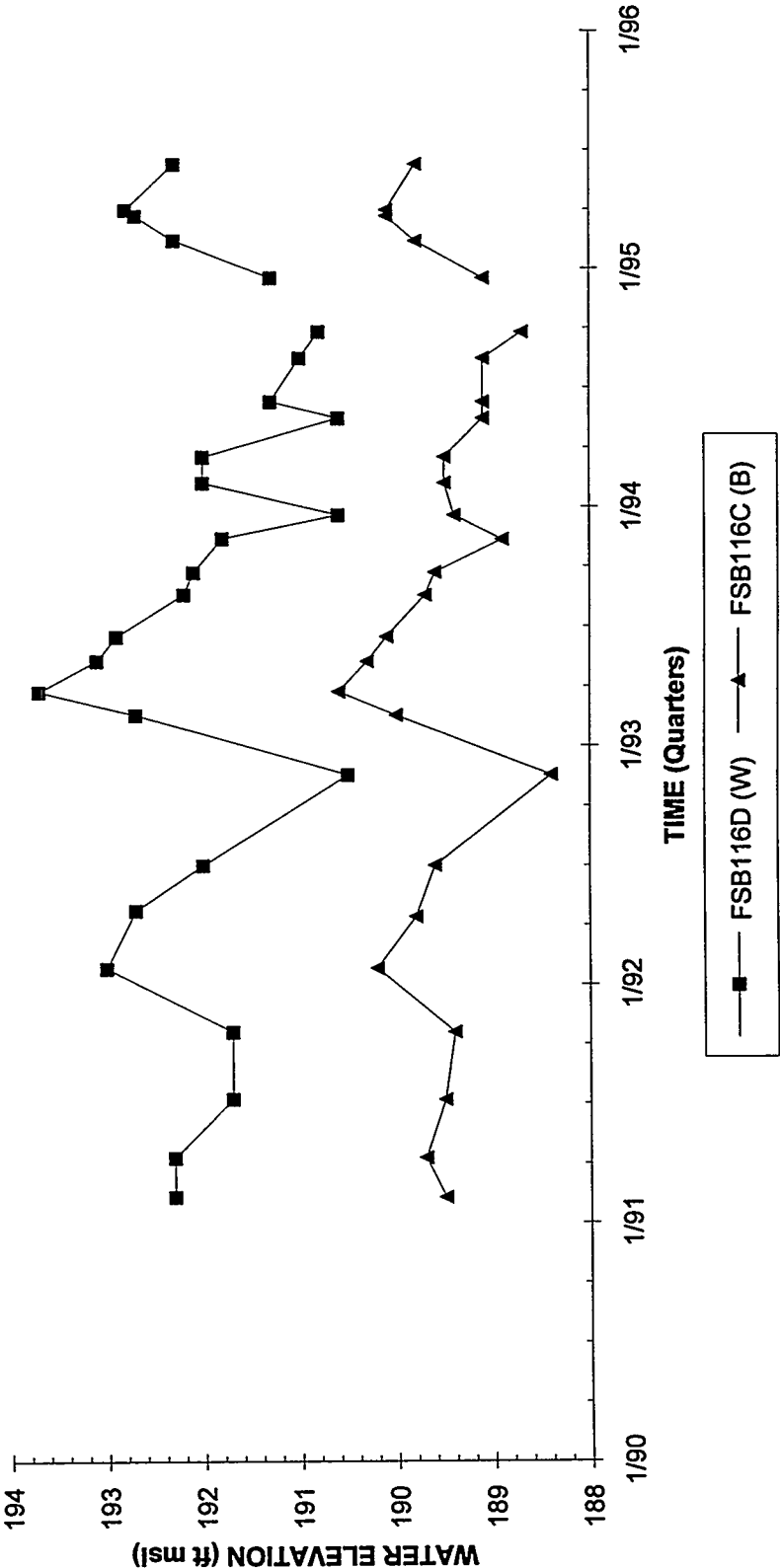
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB115



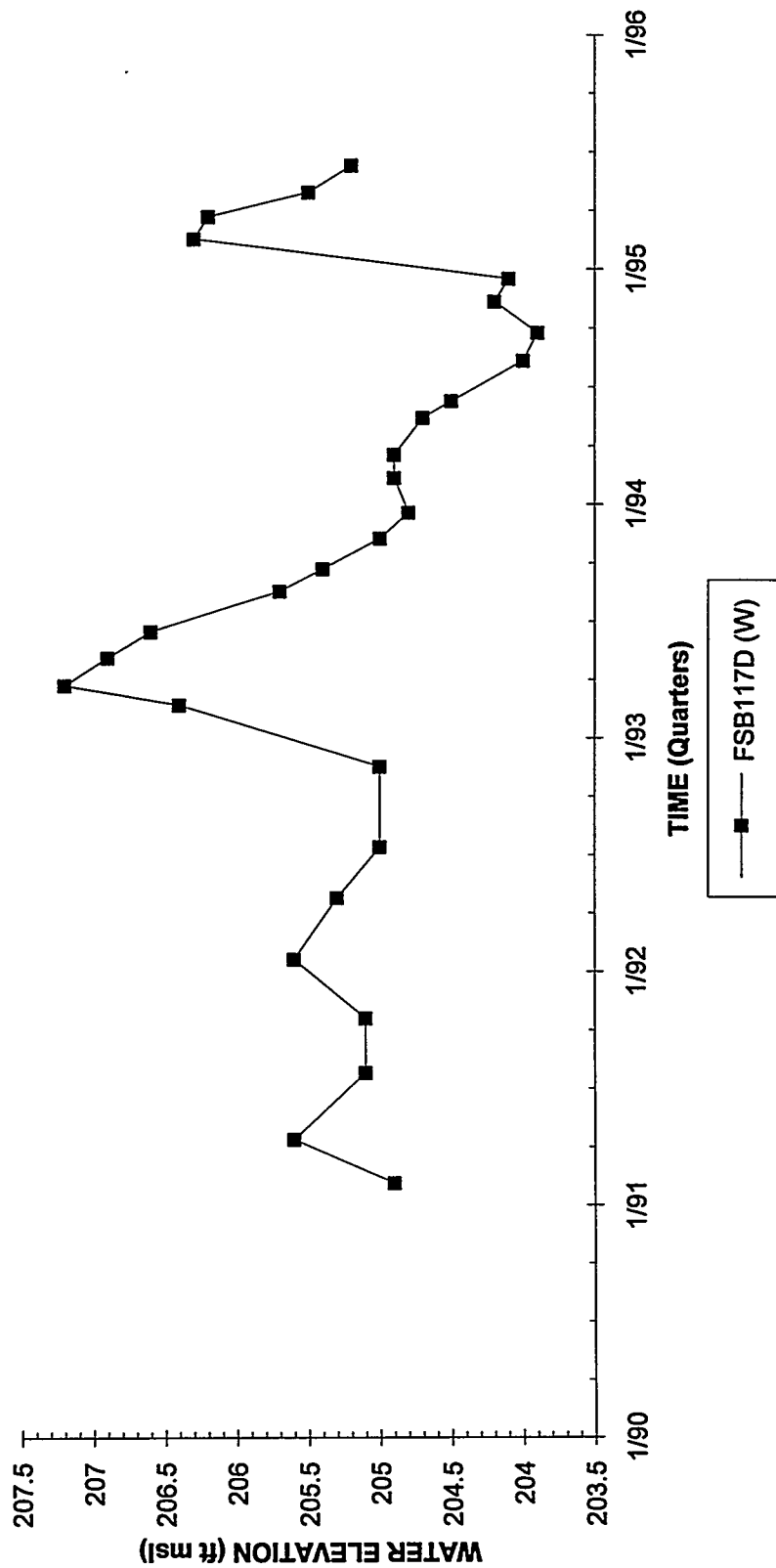
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB116



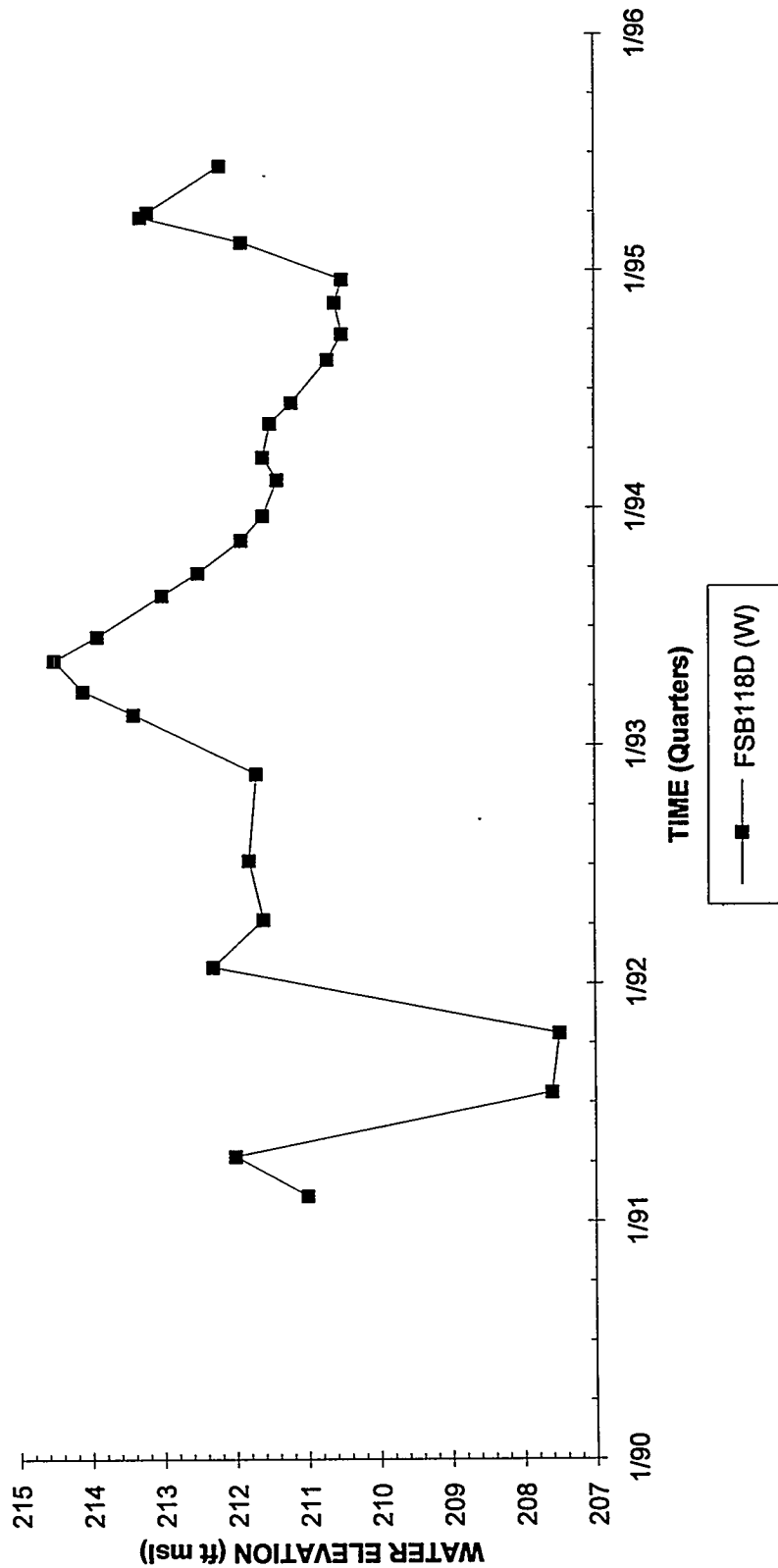
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB117D



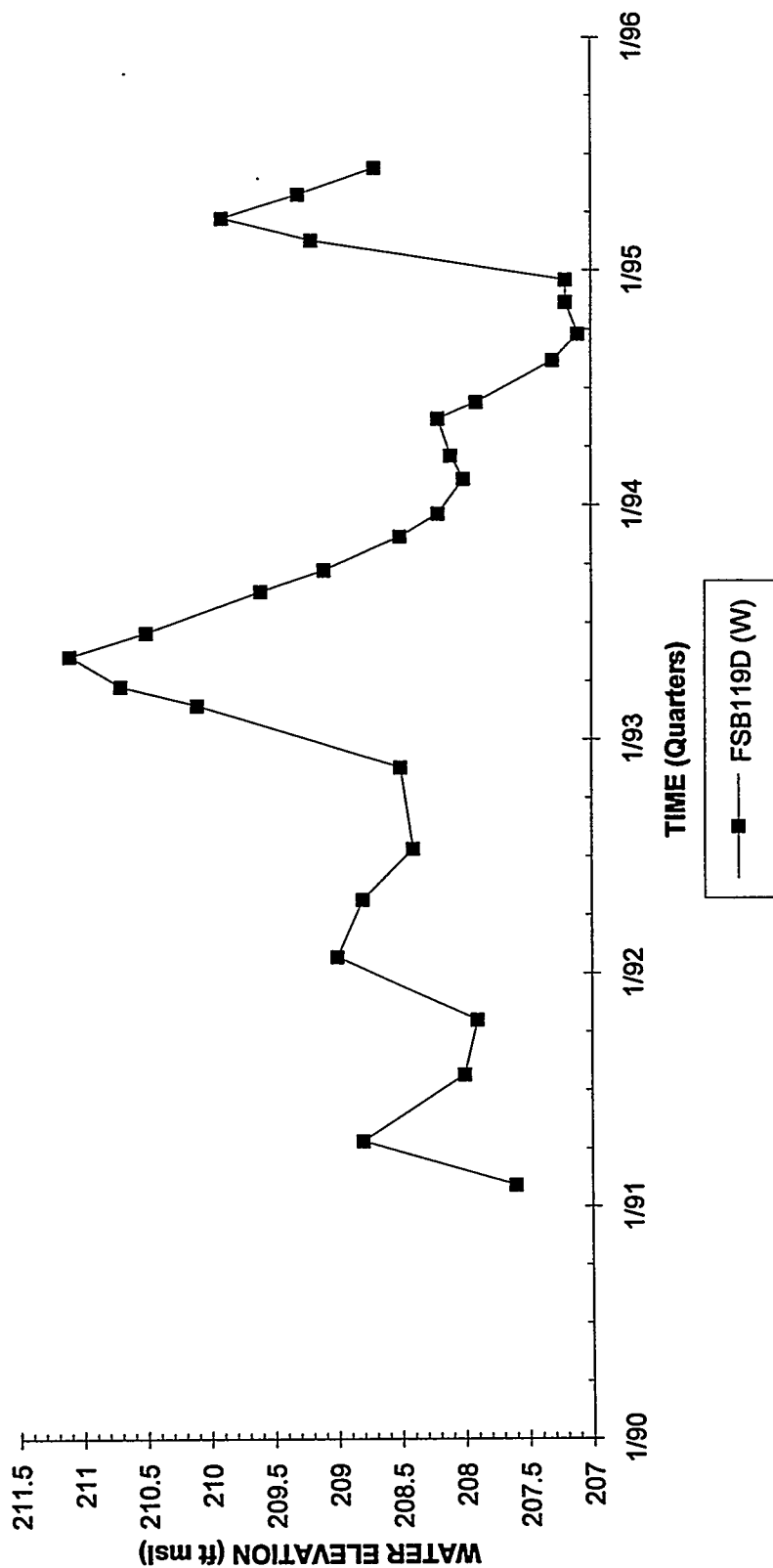
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB118D



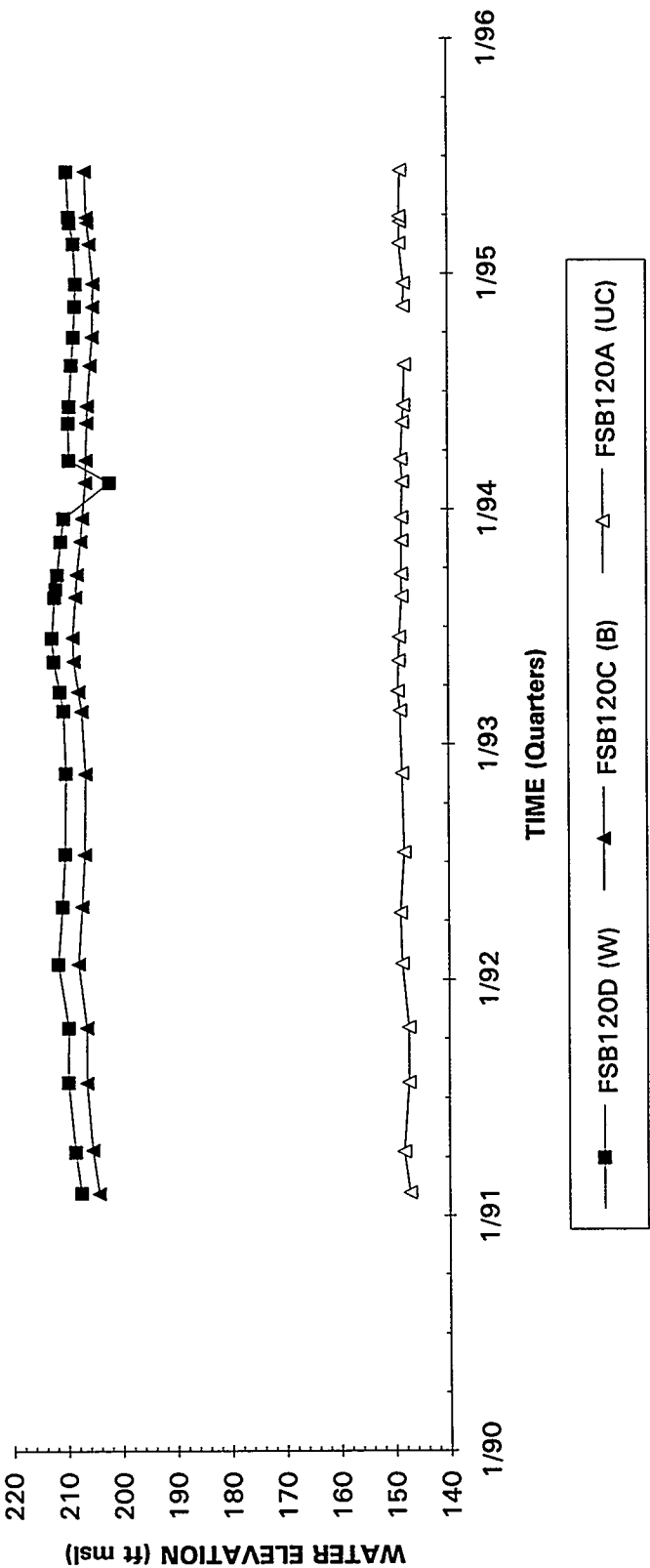
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSB119D



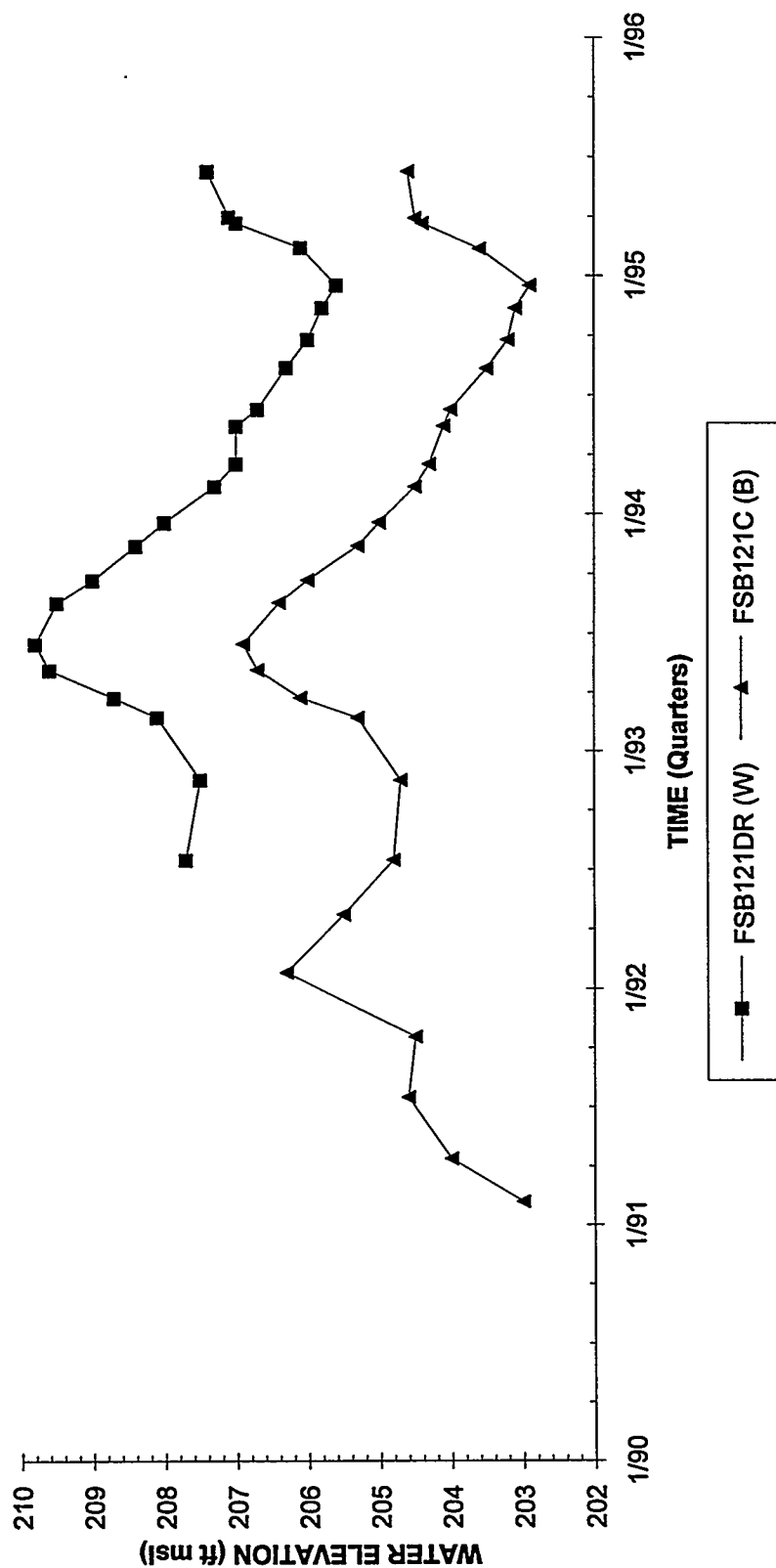
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB120



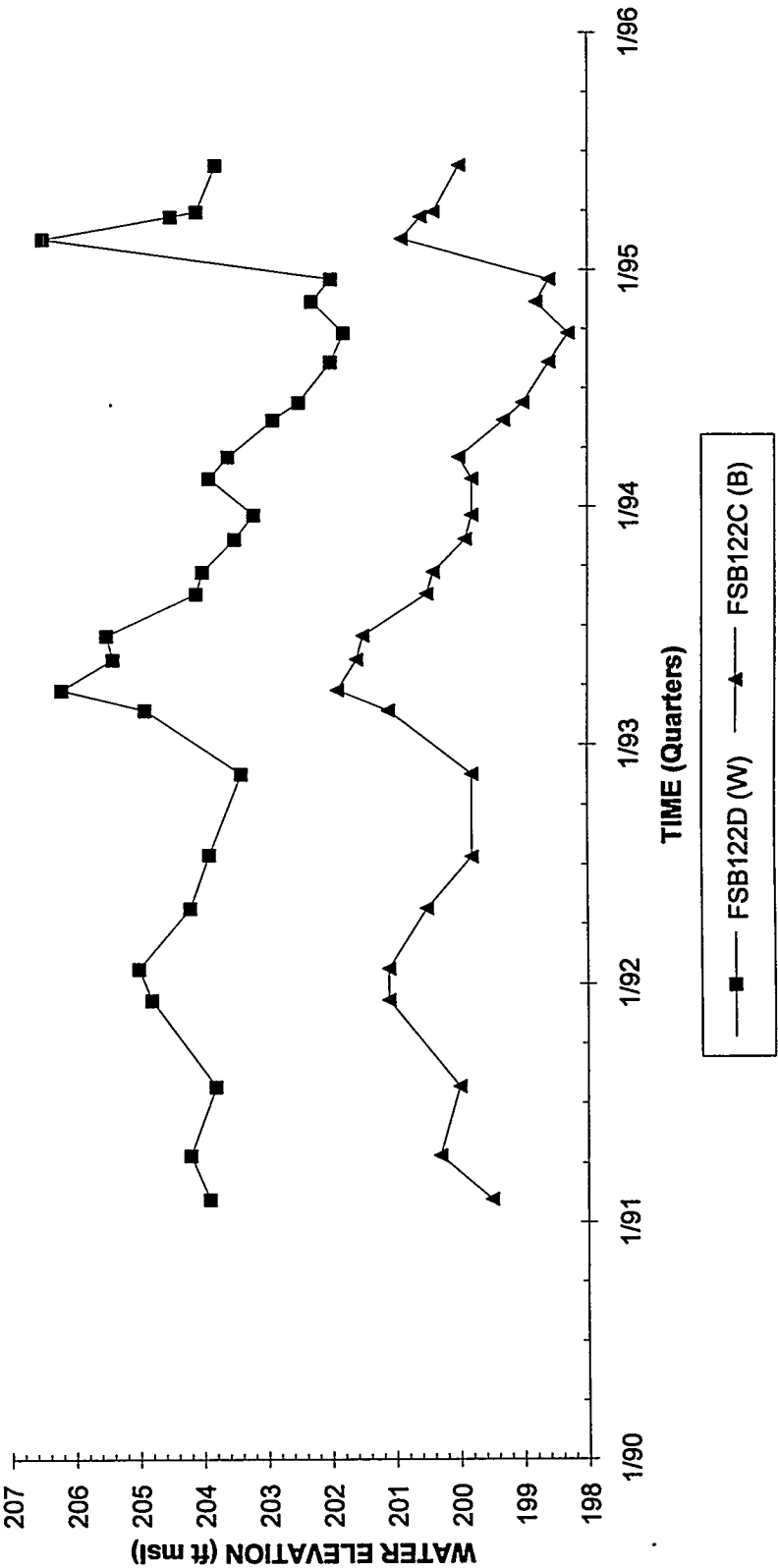
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB121



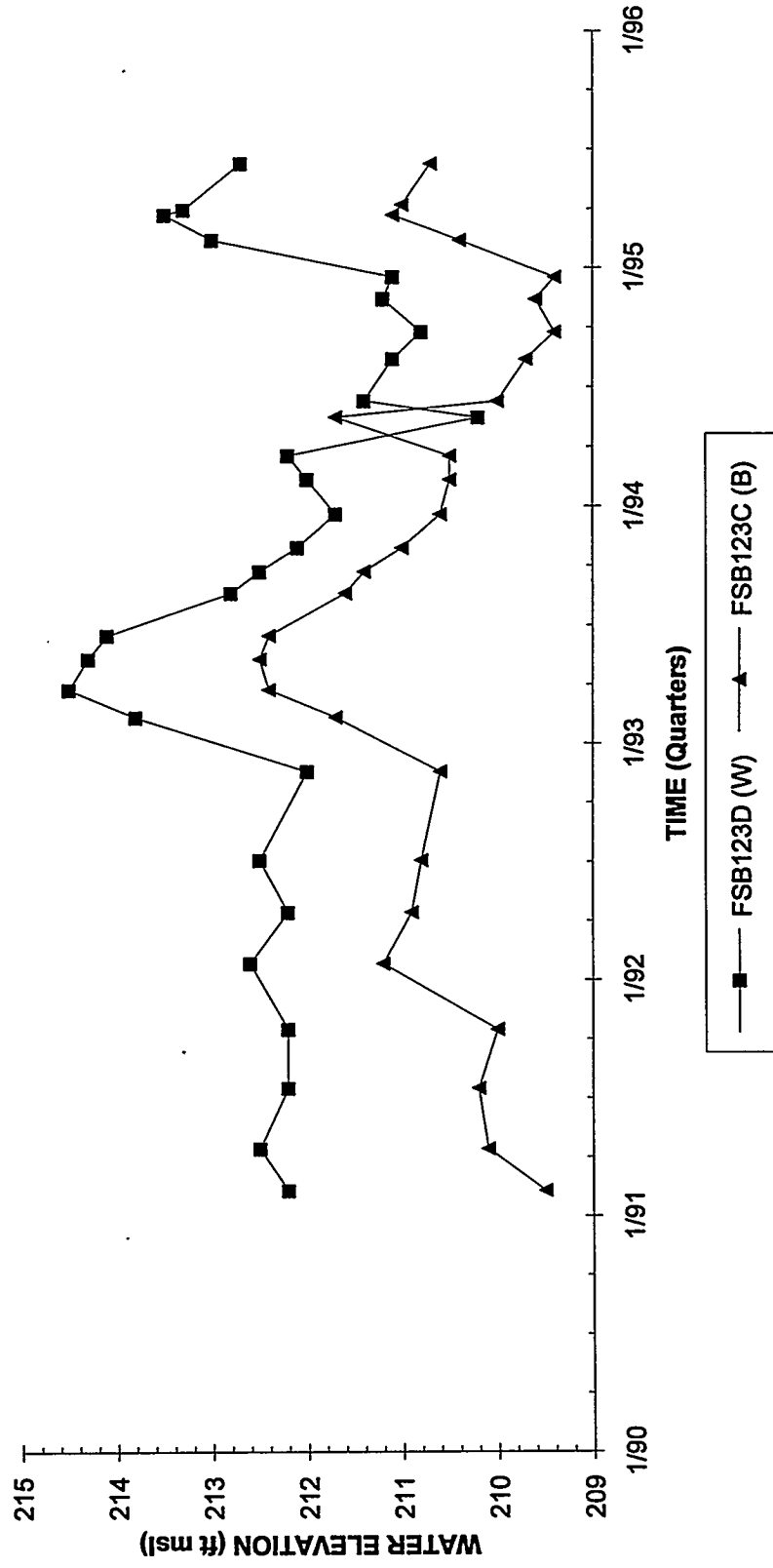
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster FSB122



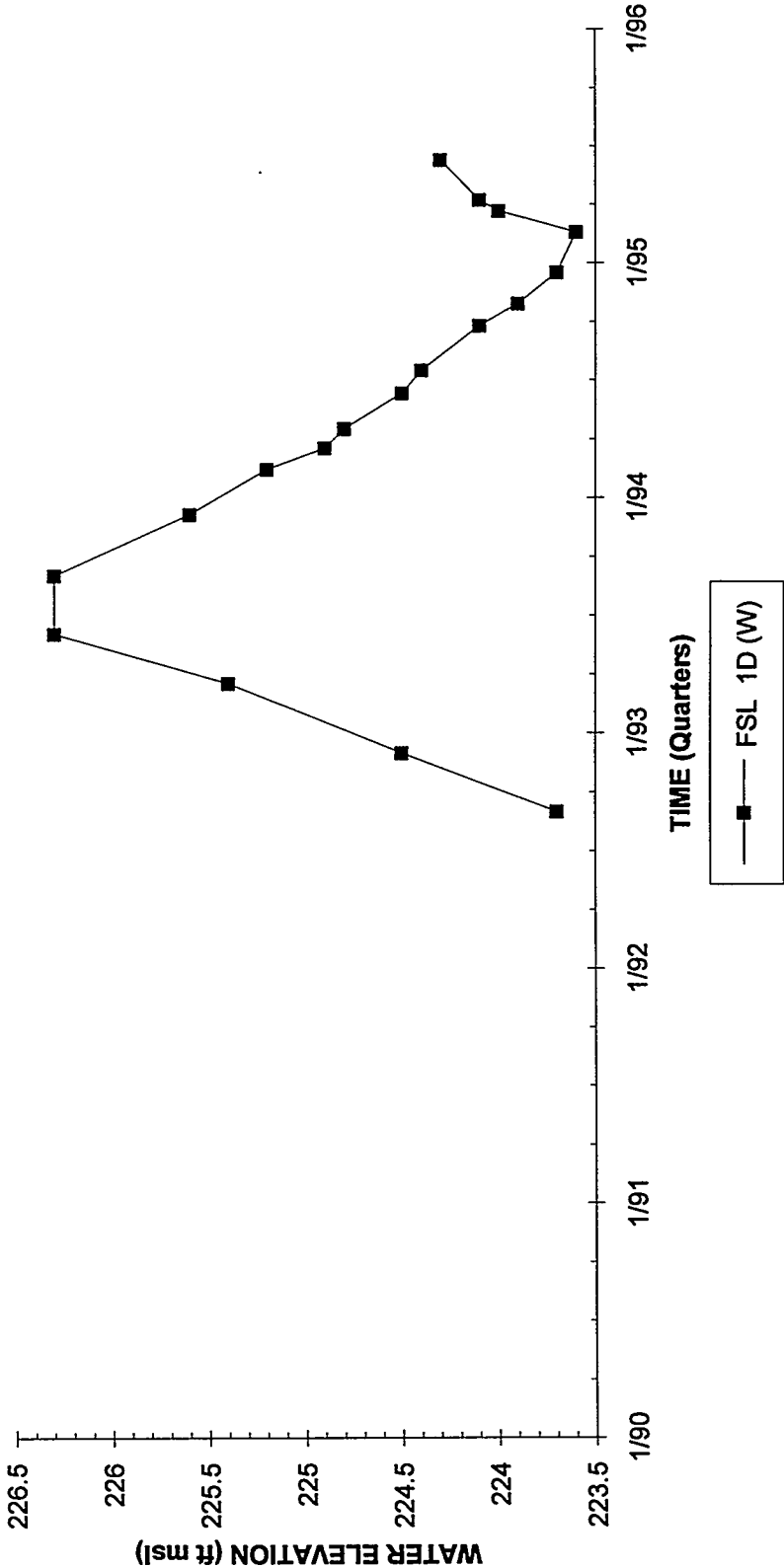
Note: W=Water Table (IIB2); B=Bainwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well Cluster FSB123



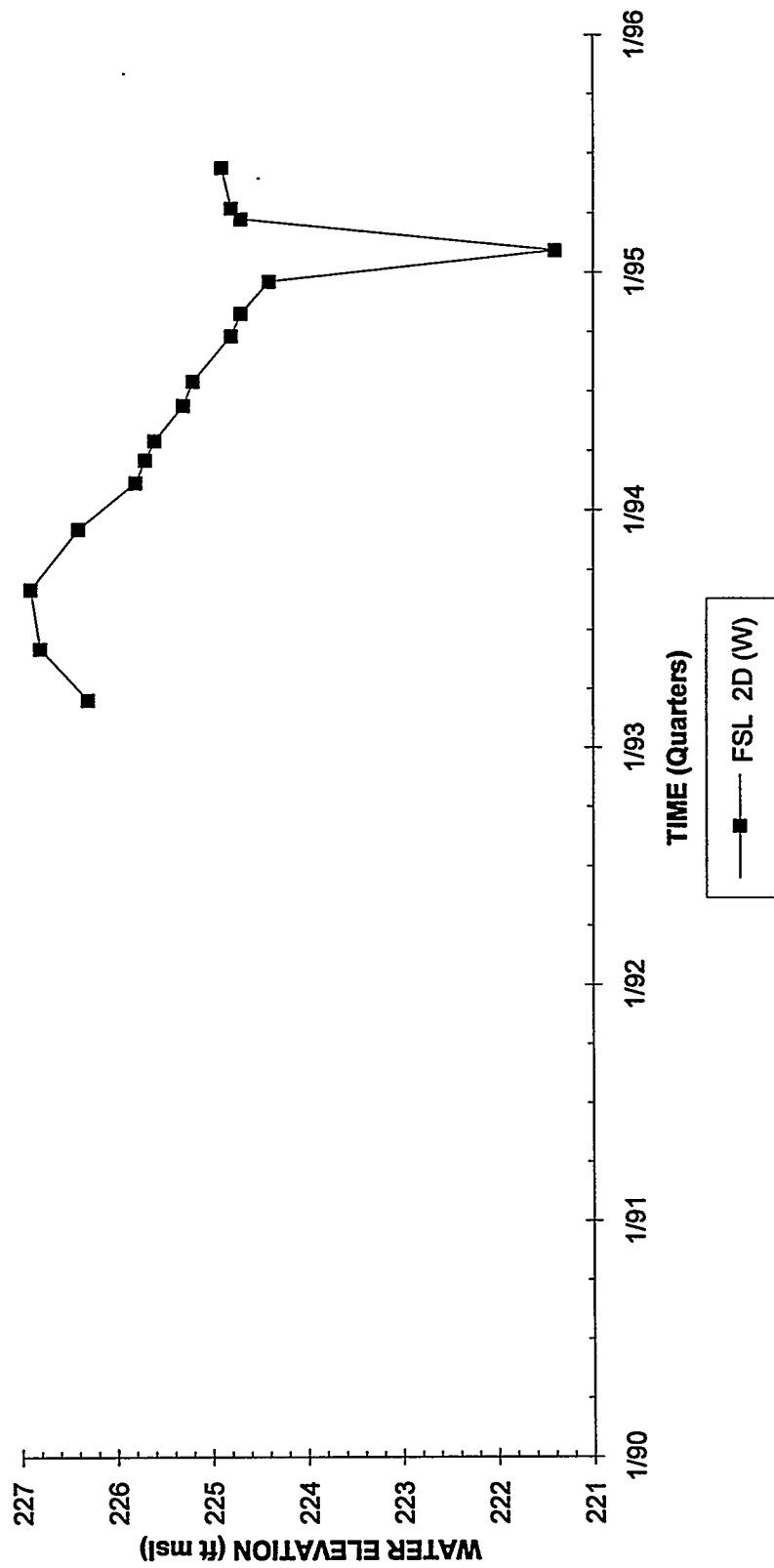
Note: W=Water Table (IB2); B=Barnwell (IB1); M=McBean (IB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSL 1D



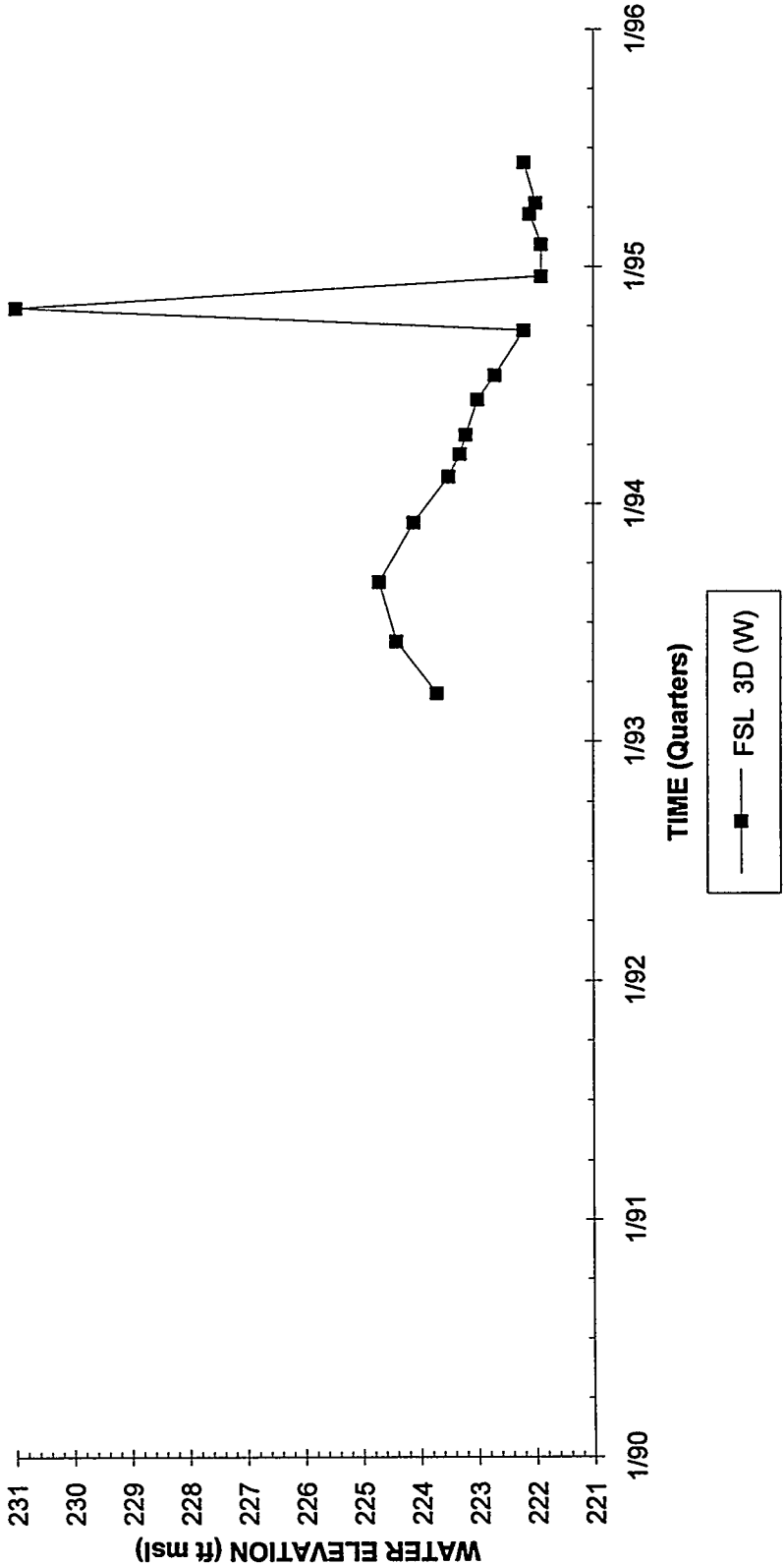
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 2D



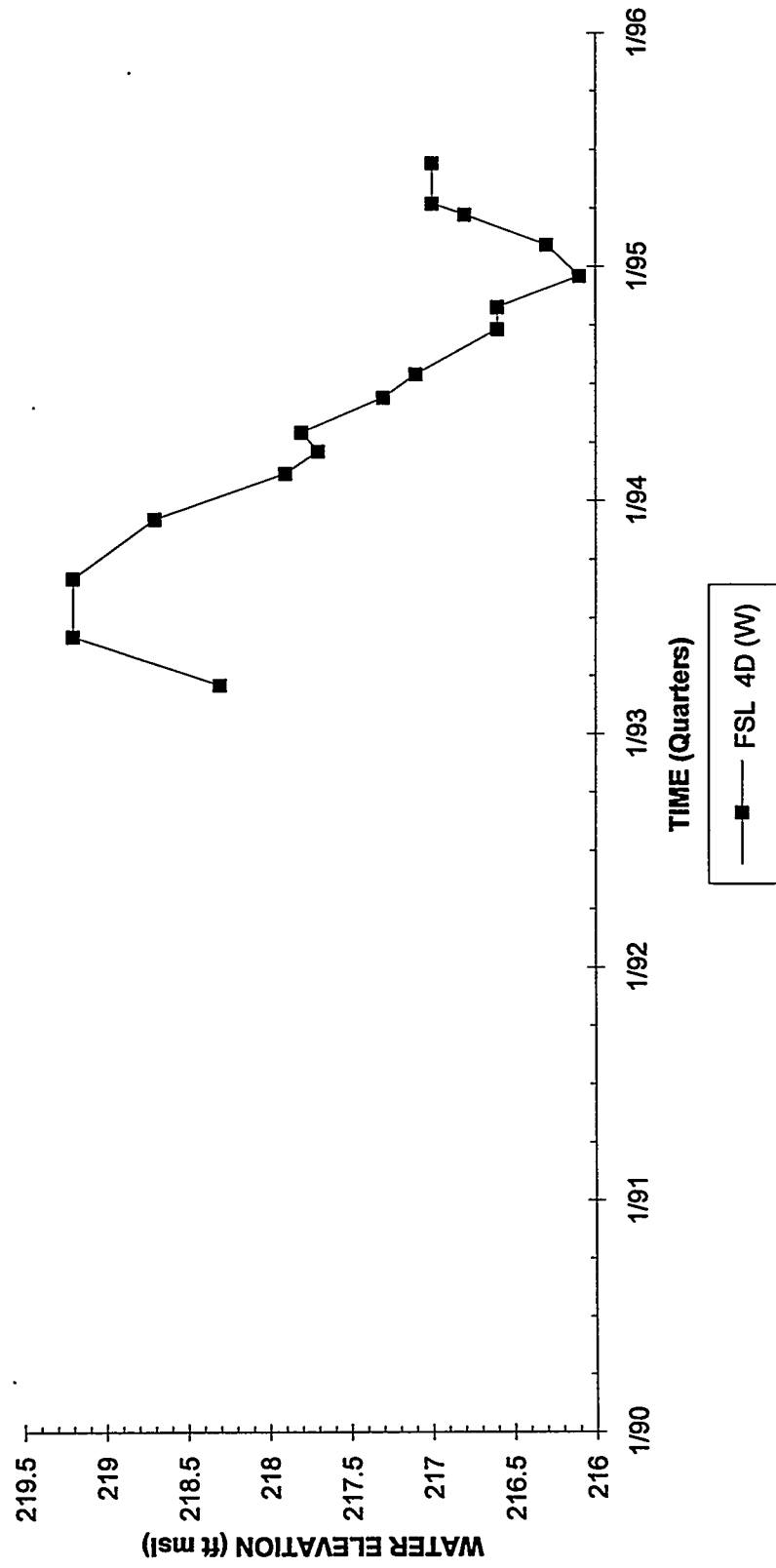
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 3D



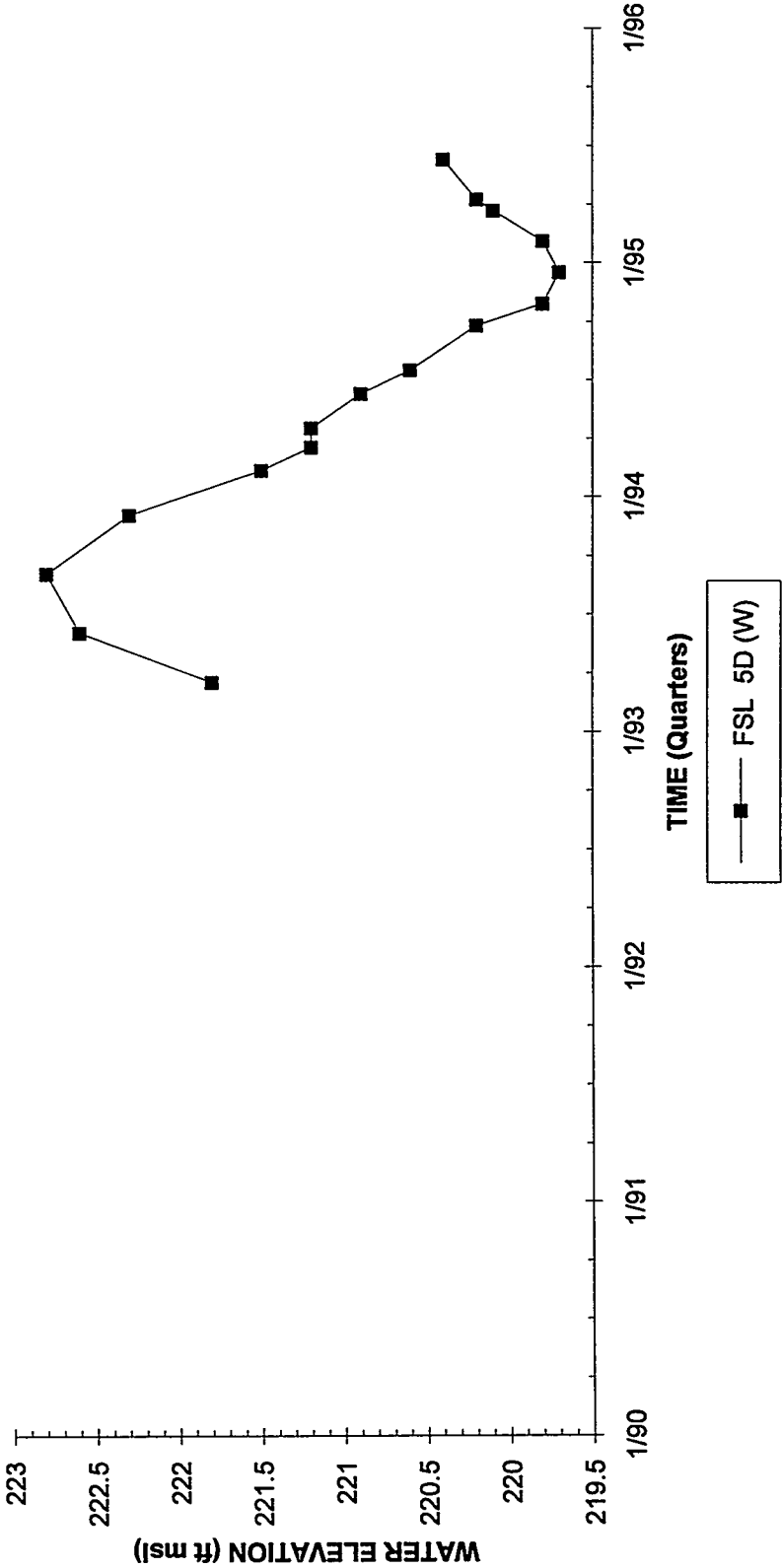
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 4D



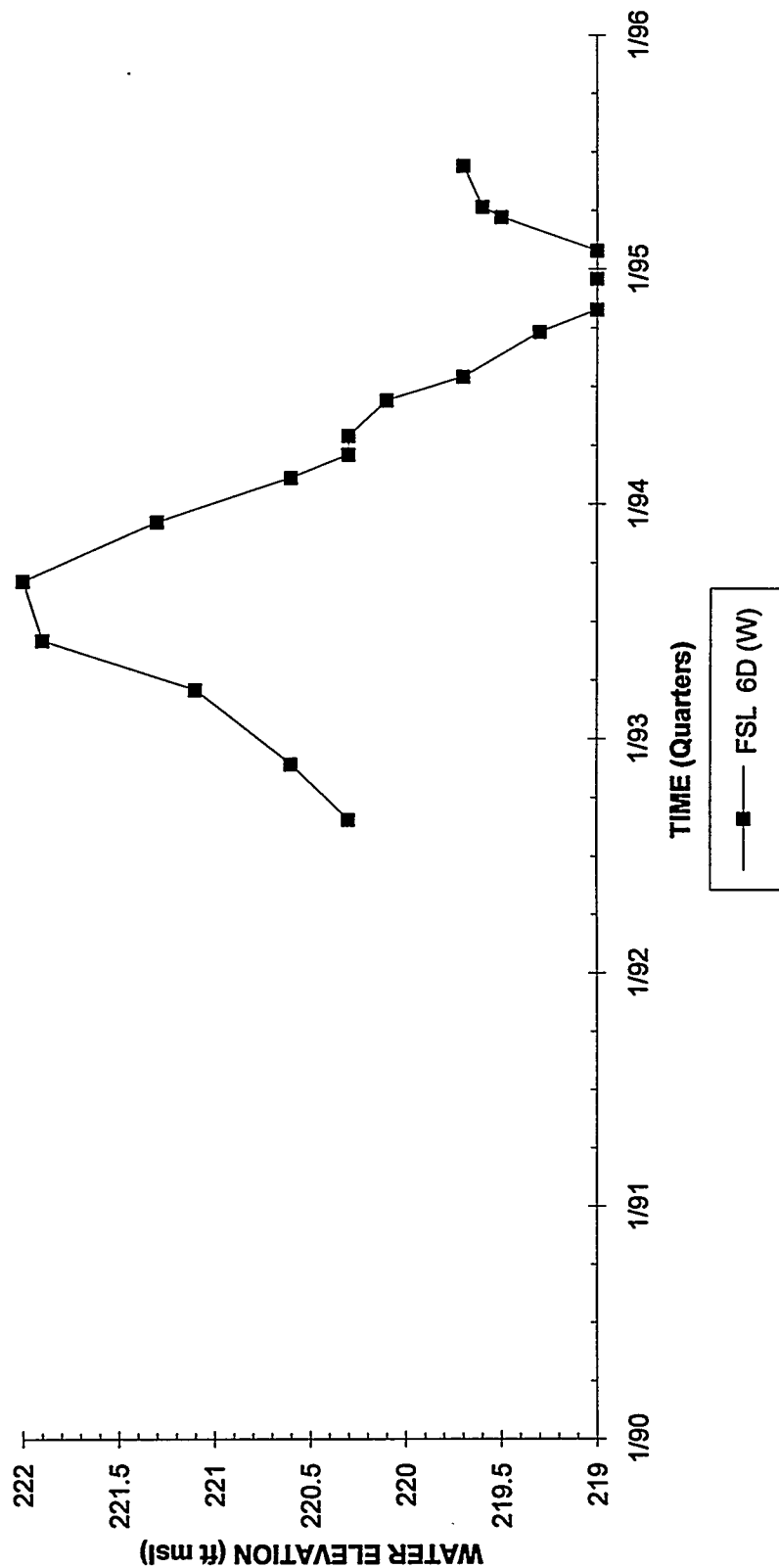
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well FSL 5D



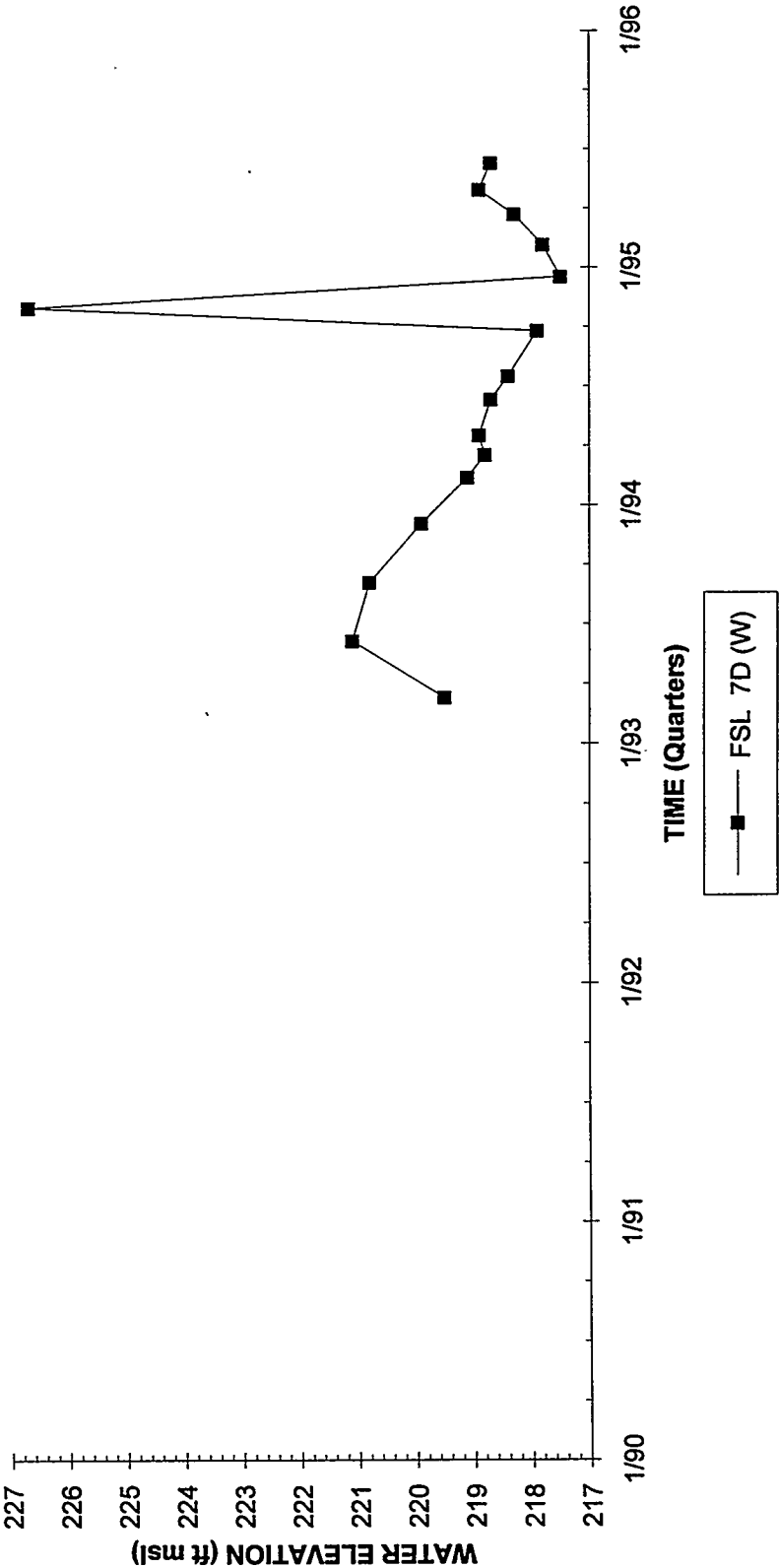
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 6D



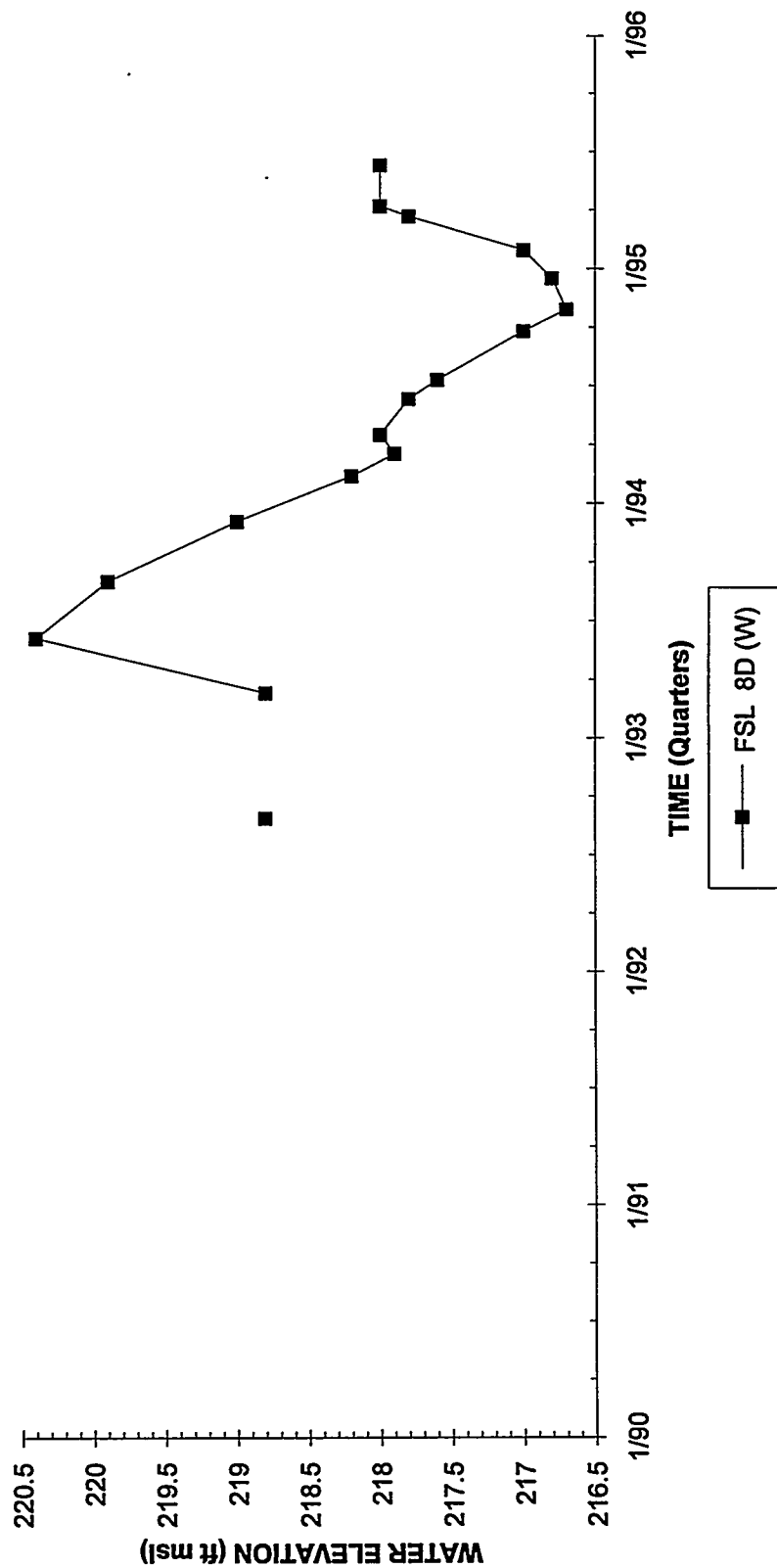
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 7D



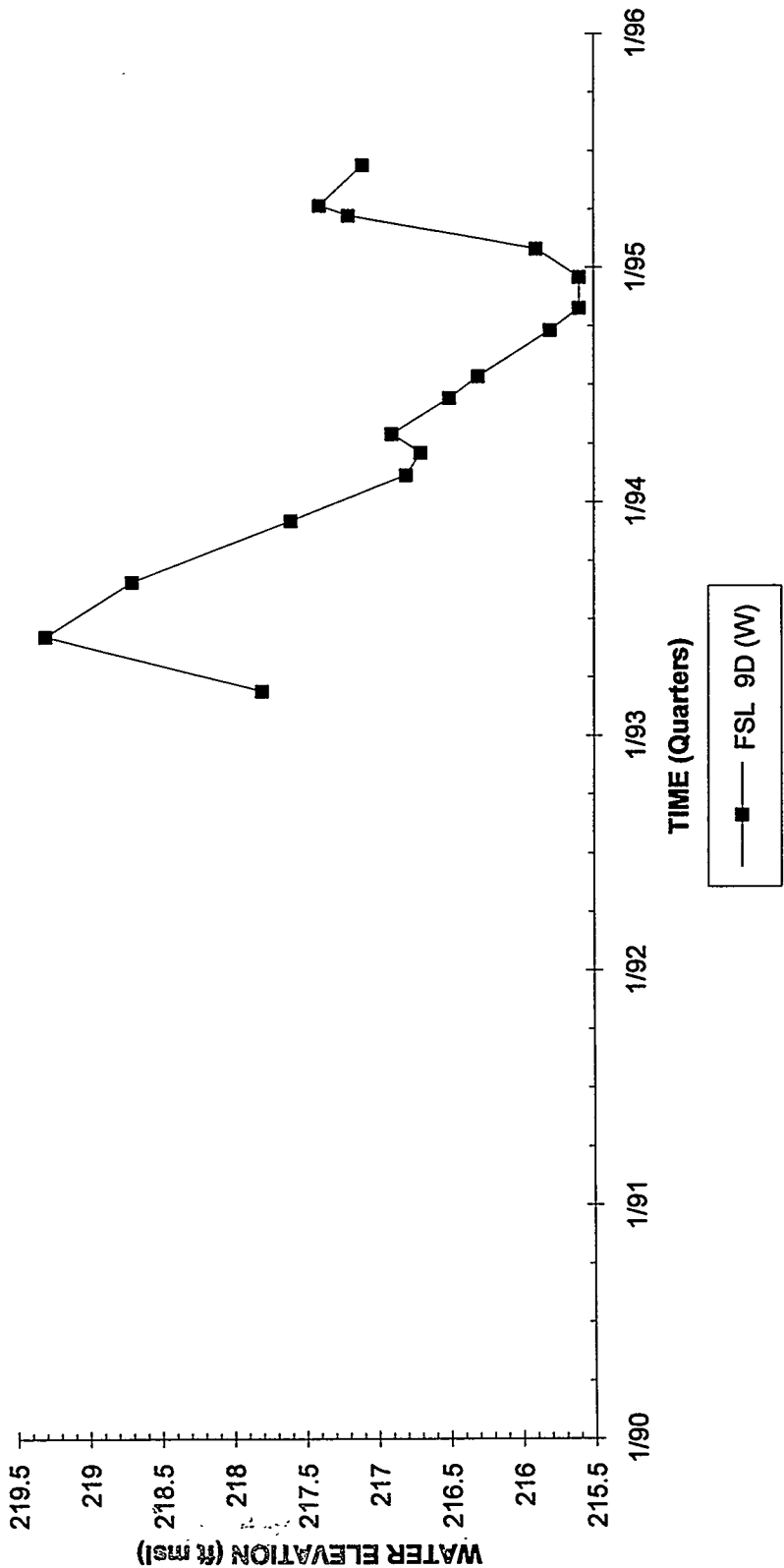
Note: W=Water Table (IIB2); B=Bamwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph Well FSL 8D



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 9D



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