WSRC-TR-94-0488
Unclassified

H-AREA SEEPAGE BASINS GROUNDWATER MONITORING REPORT (U)

THIRD AND FOURTH QUARTERS 1994

Volume I

Publication Date: March 1995

Authorized Derivative Classifier
and Reviewing Official:

Joseph P. Kenyleiter, Senior Engineer 3-29-95

UNCLASSIFIED
Does Not Contain Unclassified
Controlled Nuclear Information

Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

Prepared for the U.S. Department of Energy under Control Contract No. DE-AC09-89SR18035

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Key Words

aluminum
HSB wells
nitrate
nonvolatile beta
tritium

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Abstract

Groundwater at the H-Area Seepage Basins (HASB) is monitored in compliance with the September 30, 1992, modification of South Carolina Hazardous Waste Permit SC1-890-008-989. The monitoring wells network is composed of 130 HSB wells which monitor the three separate hydrostratigraphic units that make up the uppermost aquifer beneath the HASB. 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 H-Area Hazardous Waste Management Facility submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) in December 1990. Data from 16 HSL wells are included in this report only to provide additional information for the HASB.

Monitoring results are compared to the SCDHEC Groundwater Protection Standard (GWPS), established in Appendix IIID-A of the permit. Historically as well as currently, nitrate, nonvolatile beta, and tritium have been among the primary constituents to exceed standards. Other radionuclides and hazardous constituents also exceeded the GWPS in the groundwater at the HASB (notably aluminum, iodine-129, strontium-90, and zinc) during the second half of 1994. Elevated constituents were found primarily in Aquifer Zone IIB_2 (Water Table) and in the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean). However, constituents exceeding standards also occurred in several wells screened in the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean) and Aquifer Unit IIA (Congaree).

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 during the second half of 1994. Geologic cross sections indicate both the extent and depth of contamination of the primary contaminants in all of the hydrostratigraphic units during the second half of 1994. Water-level maps indicate that the groundwater flow rates and directions at the HASB 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 H-Area Seepage Basins (HASB) at the Savannah River Site (SRS) is monitored for various hazardous and radioactive constituents as required by Module III, Section D, of South Carolina Hazardous Waste Permit SC1-890-008-989, effective November 2, 1992 (SCDHEC, 1992). Currently, 130 HSB wells are monitored quarterly for gross alpha, mercury, 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, volatile organic compounds, and other constituents. This groundwater monitoring report describes the analytical results and indicates those that exceeded the GWPS and the SRS flagging criteria during third and fourth quarters 1994. Data from 16 HSL wells are included in this report to provide additional information for this area. Groundwater monitoring reports are submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) semiannually as required by Permit SC1-890-008-989.

During the second half of 1994, the following parameters exceeded the GWPS in HSB wells at the HASB: aluminum, arsenic, bis(2-ethylhexyl) phthalate, cobalt-60, cyanide, dichloromethane (a common laboratory contaminant), gross alpha, iodine-129, lead, mercury, nickel, nickel-63, nitrate, nonvolatile beta, pH, radium-226, strontium-89[1], strontium-90, tin, tritium, vanadium, and zinc.

Aluminum, iodine-129, nitrate, nonvolatile beta, pH, strontium-90, tritium, and zinc were elevated most frequently, exceeding GWPS in 18 or more HSB wells each during at least one quarter of the second half of 1994. Nitrate concentrations in several Aquifer Zone IIB_2 (Water Table) and Aquifer Zone IIB_1 (Barnwell/McBean) wells were unusually high during fourth quarter 1994 compared to previous quarters of the year. These values were confirmed by the analytical laboratory. Laboratory measurements of pH exceeded the GWPS in 105 (80.8%) of the HSB wells, usually exceeding the acidic standard. Arsenic, bis(2-ethylhexyl) phthalate, cobalt-60, dichloromethane (a common laboratory contaminant), lead, nickel, nickel-63, radium-226, tin, and vanadium exceeded standards infrequently, elevated in 4 or fewer HSB wells during the second half of 1994. Upgradient well HSB146A did not contain any constituents that exceeded the GWPS. Elevated levels of aluminum, pH, or tritium were found in one or more of the remaining upgradient HSB wells.

Elevated constituents in HSB wells were found primarily in Aquifer Zone IIB_2 (Water Table) and in Aquifer Zone IIB_1 (Barnwell/McBean). However, aluminum, cyanide, nitrate, nonvolatile beta, pH, tin, tritium, and zinc in levels exceeding the GWPS occurred in one or more HSB wells in Aquifer Unit IIA (Congaree).

The following parameters exceeded the GWPS in HSL wells at the HASB during the second half of 1994: aluminum, antimony, lead, nitrate, nonvolatile beta, pH, strontium-90, tritium, and zinc.

According to universal transverse Mercator (UTM) coordinates, groundwater flow in Aquifer Zone IIB_2 (Water Table) and Aquifer Zone IIB_1 (Barnwell/McBean) are south–southeast toward Fourmile Branch. Flow in Aquifer Unit IIA (Congaree) is northwest toward Upper Three Runs Creek. Flow directions and flow rates have remained relatively constant in recent years.

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Introduction

Description of Facilities

The four H-Area Seepage Basins (HASB) 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 HASB:

- In 1955, three seepage basins (H-1, H-2, and H-3) were constructed in H Area to contain waste water from the H-Area Separations Facility. In 1962, another basin (H-4) was constructed to replace Basin H-3 due to the slow seepage of waste water from Basin H-3. These unlined, hydraulically connected basins received waste water containing elevated amounts of nitrate, tritium, and other constituents. Primary sources for this waste water included the nitric acid recovery overheads, the general purpose evaporator overheads, overheads from the two waste tank farm evaporators, cooling water from the tritium facilities, 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 HASB.

- In Settlement Agreement 86-52-SW (June 20, 1986), SCDHEC required DOE to submit groundwater monitoring reports to address groundwater contamination at the HASB.

- 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 HASB was placed on Interim Status.

- Discharge of waste water to the HASB was discontinued on November 7, 1988.

- On December 3, 1990, DOE submitted a revised Part B post-closure care permit application to SCDHEC that included an implementable plan for groundwater remediation (WSRC, 1990).

- Closure caps for the HASB 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. The basins were certified closed April 26, 1991, in accordance with SCHWMR (SCDHEC, 1990).

- A revised Part B post-closure care permit application was submitted to SCDHEC on January 22, 1991.

- 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 hazardous waste permit SC1-890-008-989 on September 30, 1992 (SCDHEC, 1992). The permit, effective November 2, 1992, requires that a detailed corrective action plan for groundwater remediation at the HASB be submitted.

- 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 quarterly 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 HASB have used the nomenclature *Water Table*, *Barnwell*, *McBean*, and *Congaree* to identify hydrostratigraphic units. However, an interim alphanumeric system developed by Aadland and Bledsoe (1990) (Figure 3, Appendix C) defines the aquifer and aquitard 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 HASB RCRA Part B post-closure care permit application, submitted December 1990 (WSRC, 1990), includes an in-depth explanation of the new nomenclature.

The HASB well network monitors three distinct hydrostratigraphic units in the uppermost aquifer beneath the facility: Aquifer Zone IIB_2 (Water Table), which is supported by Confining Zone IIB_1-IIB_2 (Tan Clay); the poorly confined Aquifer Zone IIB_1 (Barnwell/McBean); and the semi-confined Aquifer Unit IIA (Congaree), which is separated from the overlying Aquifer Zone IIB_1 (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 HASB RCRA Part B post-closure care permit application includes a detailed description of the geologic and hydrogeologic systems at the HASB.

Monitoring Well Nomenclature

Generally, groundwater monitoring wells are designated with an abbreviated waste management unit prefix (e.g., HSB), a number (1 through 999), and a suffix (A, B, C, or D) that indicates the

hydrostratigraphic unit being monitored. At the HASB, if the suffix is followed by a *D*, the well monitors Aquifer Zone IIB_2 (Water Table); if it is followed by a *C*, the well monitors the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean); if it is followed by a *B*, the well monitors the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean); and if it is followed by an *A*, the well monitors Aquifer Unit IIA (Congaree). An *R* designation following the *A*, *B*, *C*, or *D* suffix indicates a replacement well.

There are exceptions to this nomenclature. For example, wells HSB 65, 65C, 66, 67, 68, 69, 70, 71, and 85C and wells bearing the *E* suffix all monitor Aquifer Zone IIB_2 (Water Table).

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 have been installed in wells at the HASB that have a history of elevated metals. Samples from wells with variable-speed pumps can be collected at a slower rate to minimize turbidity, which has been associated with elevated metal 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. Wells HSB 67, 68, 69, 84A, 84D, 86C, 86D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 110D, 111D, 111E, 112D, 112E, 113D, 114C, 114D, 116C, 116D, 117C, 125D, and 136D and all 16 HSL wells have variable-speed pumps.

During third and fourth quarters 1994, samples from wells at the HASB 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 discussed in this report. The GWPS is based on standards listed in section 264.94 of SCHWMR (SCDHEC, 1990); practical quantitation limits identified in Appendix IX of SCHWMR 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 the following standards:

- 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* or *above* standards.

The SCDHEC permit requires that all of the radionuclides except gross alpha, nonvolatile beta, total radium, and tritium be compared to activities found in SRS background wells. The studies to obtain background activities are not yet 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 of the 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 four radionuclides were calculated as ratios of measured activities of chemically similar radionuclides. The activity ratios are as follows: americium-243:curium-244 ≈ 3.0E–03; nickel-63:cobalt-60 ≈ 1.0E+00; plutonium-241:plutonium-239 ≈ 4.0E+00; and plutonium-242:plutonium-239 ≈ 2.0E–05 (Environmental Restoration Department memorandum WSRC-RP-93-0723 from H. P. Holcomb to C. M. Lewis, May 14, 1993). During 1994, curium-244 and plutonium-239 activities were not determined by the analytical laboratory. Therefore, curium-243/244 and plutonium-239/240 activities were used to calculate the activities of americium-243, plutonium-241, and plutonium-242. Detection limit values for curium-243/244, cobalt-60, and plutonium-239/240 were treated as real numbers in calculations. Results calculated from detection limit values are preceded by less than (<) signs in the data tables.

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

The activities for gross alpha and nonvolatile beta cannot 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 IIID.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 HASB.

Integrity of the Monitoring Well Network

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

- 58 Aquifer Zone IIB_2 (Water Table) wells (Figure 5, Appendix C): HSB 65, 65C, 66, 67, 68, 69, 70, 71, 83D, 84D, 85C, 86D, 100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D,

109D, 110D, 111D, 111E, 112D, 112E, 113D, 114D, 115D, 116D, 117D, 125D, 126D, 127D, 129D, 130D, 131D, 132D, 133D, 134D, 135D, 136D, 137D, 138D, 139D, 140D, 141D, 142D, 143D, 145D, 146D, 147D, 148D, 149D, 150D, 151D, and 152D

- 46 wells screened in the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean) (Figure 6, Appendix C): HSB 68C, 70C, 71C, 83C, 84C, 86C, 100C, 101C, 102C, 103C, 104C, 105C, 106C, 107C, 108C, 109C, 110C, 111C, 112C, 113C, 114C, 115C, 116C, 117C, 125C, 126C, 127C, 129C, 130C, 131C, 132C, 133C, 134C, 135C, 136C, 137C, 139C, 140C, 141C, 142C, 143C, 145C, 146C, 148C, 151C, and 152C

- 6 wells screened in the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean) (Figure 6, Appendix C): HSB 65B, 68B, 83B, 84B, 85B, and 86B

- 20 Aquifer Unit IIA (Congaree) wells (Figure 7, Appendix C): HSB 85A, 118A, 119A, 120A, 121A, 122A, 123A, 124AR, 139A, 140A, 141A, 144A, and 146A in the upper portion; HSB 69A, 83A, and 117A in the middle portion; HSB 65A, 68A, 84A, and 86A in the lower portion

- 16 additional monitoring wells screened in the following aquifer zones (Figures 5, 6, and 7, Appendix C):

  Aquifer Zone IIB_2 (Water Table): HSL 1D, 2D, 3D, 4D, 5D, 6D, 7D, and 8D

  Aquifer Zone IIB_1 (Barnwell/McBean): HSL 6C and 8C in the upper portion, HSL 6B and 8B in the lower portion

  Aquifer Unit IIA (Congaree): HSL 6A and 8A in the upper portion, HSL 6AA and 8AA in the lower portion

The designated background wells are HSB 66, 83A, and 85B. Compared to the remaining up-gradient HSB 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 wells are as follows:

- Aquifer Zone IIB_2 (Water Table): HSB100D, 101D, 102D, 103D, 104D, 105D, 106D, 107D, 108D, 109D, 110D, 111D, 111E, 112D, 112E, 113D, 114D, 115D, 116D

- Aquifer Zone IIB_1 (Barnwell/McBean): HSB100C, 101C, 102C, 103C, 104C, 105C, 106C, 107C, 108C, 109C, 110C, 111C, 112C, 113C, 114C, 115C, 116C

- Aquifer Unit IIA (Congaree): HSB119A, 120A, 121A, 122A, 123A, 124AR

SRS has a program in place to rehabilitate and replace wells that do not produce representative samples from the units being monitored. A complete record of well installations, replacements, and abandonments at the HASB is found in the EPD/EMS well inventory (EPD/EMS, 1994). The most recent well construction activity at this location was in fourth quarter 1991 for HSB wells and first quarter 1994 for HSL wells.

Table 3 (Appendix D) lists the number of well volumes purged from each of the HSB series wells during third and fourth quarters 1994 and provides sampling codes (I, P, X, etc., as defined in

the Appendix D front matter) that describe unusual sampling events. Unusual sampling events occurred as follows:

- Wells that went dry during purging and were revisited within 24 hours: HSB151D during third quarter 1994; HSB109D during fourth quarter 1994; and HSB 68B, 68C, 70C, 71C, 84B, 84C, 85B, 101D, 112E, 115D, 119A, 123A, 126D, 129C, 132C, 132D, 136C, 137C, 138D, 139C, 141C, 141D, 142D, 146D, 147D, 148C, 148D, 150D, and 152D and HSL 3D, 6D, 7D, 8AA, and 8D during third and fourth quarters 1994. The number of gallons purged from well HSB152D was not recorded by the samplers during third quarter 1994.

- Wells with no water in the standpipe when water levels were measured: HSB109D (during fourth quarter sampling) and HSB152D (during third quarter sampling and third and fourth quarter synchronous water-level measurements).

- Wells that could not be sampled because they are in the Purge Water Containment (PWC) Program and the problem of containing and disposing of the purge water has not been resolved: HSB 68, 102D, 108D, and 116D during both third and fourth quarters 1994. These wells are in the PWC Program because of elevated levels of nonvolatile beta.

- Well HSL 6A has a volume purged of −12 well volumes. We believe that the depth to water measurement, which is used to calculate volume purged, is incorrect.

Analytical Results Exceeding Standards

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

Aquifer Zone IIB_2 (Water Table), Third Quarter 1994

During third quarter 1994, 54 of the 58 HSB wells and all of the HSL wells in Aquifer Zone IIB_2 (Water Table) exhibited parameters that exceeded the GWPS. Laboratory measurements of pH were outside the range of the GWPS in 52 HSB and 7 HSL wells. Tritium exceeded its GWPS in 44 HSB and 7 HSL wells, with a maximum activity of 1.4E+04 pCi/mL in well HSB101D and a maximum activity of 1.3E+03 pCi/mL in well HSL 8D. Aluminum was elevated in 44 HSB and 6 HSL wells, with a maximum concentration of 10,000 µg/L in well HSB115D and a maximum concentration of 3,700 µg/L in well HSL 6D.

Nonvolatile beta was elevated in 22 HSB and 2 HSL wells, with a maximum activity of 3.4E+03 pCi/L in well HSB115D and a maximum activity of 9.5E+01 pCi/L in well HSL 6D. Nitrate was elevated in 19 HSB wells with a maximum concentration of 38,000 µg/L in well HSB126D and was elevated in well HSL 8D with a concentration of 11,000 µg/L. Iodine-129 exceeded the GWPS in 19 HSB and no HSL wells, with a maximum activity of 1.6E+02 pCi/L in well HSB114D. Strontium-90 was elevated in 18 HSB wells with a maximum activity of 1.5E+03 pCi/L in well HSB115D and was elevated in well HSL 6D with an activity of 3.1E+01 pCi/L. Zinc was elevated in 10 HSB wells with a maximum concentration of 95 µg/L in well HSB100D and was elevated in well HSL 6D with a concentration of 24 µg/L.

Gross alpha was elevated in 8 HSB and no HSL wells, and mercury was elevated in 6 HSB and no HSL wells. Strontium-89[1] also was elevated in 6 HSB wells but was not analyzed in the HSL wells in Aquifer Zone IIB_2. Cyanide was elevated in 5 HSB wells, nickel-63 was elevated in 4 HSB wells, and lead was elevated in 2 HSB wells; these constituents were not elevated in HSL wells. Arsenic, bis(2-ethylhexyl) phthalate, cobalt-60, dichloromethane (a

common laboratory contaminant), nickel, and vanadium were elevated in 1 HSB well each and no HSL wells. Radium-226 and tin also were elevated in 1 HSB well each but were not analyzed in HSL wells in Aquifer Zone IIB_2.

Upper portion, Aquifer Zone IIB_1 (Barnwell/McBean), Third Quarter 1994

Forty-four of the 46 HSB wells and both of the HSL wells in the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean) contained parameters that exceeded the GWPS. Laboratory measurements of pH were outside the GWPS range in 36 HSB and 2 HSL wells. Tritium was elevated in 32 HSB wells, with a maximum activity of 1.6E+04 pCi/mL in well HSB 86C, and in well HSL 8C with an activity of 3.9E+01 pCi/mL. Aluminum was elevated in 21 HSB wells, with a maximum concentration of 940 µg/L in well HSB 86C, and in well HSL 8C with a concentration of 3,900 µg/L. Nitrate, with a maximum concentration of 48,000 µg/L in well HSB137C, was elevated in 16 HSB and no HSL wells.

Nonvolatile beta was elevated in 8 HSB wells, iodine-129 was elevated in 7 HSB wells, and zinc was elevated in 6 HSB wells. Cyanide was elevated in 5 HSB wells, gross alpha was elevated in 2 HSB wells, and bis(2-ethylhexyl) phthalate and tin were elevated in 1 HSB well each. Tin was not analyzed in HSL wells, and the remaining constituents were not elevated in HSL wells in the upper portion of Aquifer Zone IIB_1 during third quarter 1994.

Lower portion, Aquifer Zone IIB_1 (Barnwell/McBean), Third Quarter 1994

Four of the 6 HSB wells and both of the HSL wells in the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean) exhibited parameters that exceeded the GWPS. Aluminum was elevated in 4 HSB and 2 HSL wells. Laboratory pH measurements exceeded the GWPS in 2 HSB wells and 1 HSL well. Tritium was elevated in 2 HSB and no HSL wells.

Aquifer Unit IIA (Congaree), Third Quarter 1994

Twelve of the 20 HSB wells and 3 of the 4 HSL wells in Aquifer Unit IIA (Congaree) had parameters that exceeded the GWPS. Laboratory pH measurements exceeded the standard in 9 HSB and 3 HSL wells. Tritium was elevated in 3 HSB and no HSL wells. Aluminum exceeded GWPS in 2 HSB and 2 HSL wells. Cyanide, nitrate, and zinc were elevated in 2 HSB wells each and no HSL wells. Tin was elevated in 1 HSB well and was not analyzed in HSL wells, and antimony was elevated in no HSB wells and 1 HSL well.

Aquifer Zone IIB_2 (Water Table), Fourth Quarter 1994

During fourth quarter 1994, 53 of the 58 HSB wells and all of the HSL wells in Aquifer Zone IIB_2 (Water Table) exhibited parameters that exceeded the GWPS. Laboratory measurements of pH exceeded the standard in 52 HSB and 8 HSL wells. Tritium was elevated in 44 HSB and 8 HSL wells, with a maximum activity of 1.4E+04 pCi/mL in well HSB101D and a maximum activity of 3.2E+03 pCi/mL in well HSL 8D.

Nonvolatile beta was elevated in 23 wells, 21 HSB and 2 HSL wells, with a maximum activity of 2.6E+03 pCi/L in well HSB115D and a maximum activity of 1.2E+02 pCi/L in well HSL 6D. Nitrate, with a maximum concentration of 600,000 µg/L in well HSB136D and a maximum concentration of 28,000 µg/L in well HSL 8D, was elevated in 19 HSB and 1 HSL wells.

Gross alpha and mercury both were elevated in 7 HSB and no HSL wells. Zinc was not analyzed in HSB wells and was elevated in 1 HSL well.

Upper portion, Aquifer Zone IIB$_1$ (Barnwell/McBean), Fourth Quarter 1994

Forty-four of the 46 HSB wells and both of the HSL wells in the upper portion of Aquifer Zone IIB$_1$ (Barnwell/McBean) exhibited parameters that exceeded the GWPS. Laboratory measurements of pH exceeded the standard in 34 HSB and 2 HSL wells. Tritium was elevated in 32 HSB and 1 HSL wells, with a maximum activity of 1.5E+04 pCi/L in well HSB 86C.

Nitrate was elevated in 19 HSB and no HSL wells, with a maximum concentration of 550,000 µg/L in well HSB115C. Nonvolatile beta exceeded GWPS in 9 HSB and no HSL wells, with a maximum activity of 1.8E+03 pCi/L in well HSB 86C.

Gross alpha was elevated in 2 HSB and no HSL wells, and aluminum was not analyzed in HSB wells but was elevated in 1 HSL well.

Lower portion, Aquifer Zone IIB$_1$ (Barnwell/McBean), Fourth Quarter 1994

Three of the 6 HSB wells and both of the HSL wells in the lower portion of Aquifer Zone IIB$_1$ (Barnwell/McBean) exhibited parameters that exceeded the GWPS. Laboratory pH measurements exceeded standards in 2 HSB and 1 HSL wells, and tritium was elevated in 2 HSB and no HSL wells. Aluminum was not analyzed in HSB wells but was elevated in 2 HSL wells.

Aquifer Unit IIA (Congaree), Fourth Quarter 1994

Eight of the 20 HSB wells and all of the HSL wells in Aquifer Unit IIA (Congaree) exhibited parameters that exceeded the GWPS. Laboratory measurements of pH exceeded standards in 5 HSB and 4 HSL wells, and tritium was elevated in 3 HSB and no HSL wells. Nitrate and nonvolatile beta were elevated in 1 HSB well each and no HSL wells. Aluminum and lead were not analyzed in HSB wells but were elevated in 1 HSL well each.

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

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

In addition to the results tables, Appendix D provides definitions of the abbreviations and the modifiers used in the results tables as well as descriptions of holding times, data rounding, and data qualification practices. Appendix E provides a general assessment of the quality and usability of EPD/EMS data.

Maps and Time Series Plots

The horizontal distributions of gross alpha, mercury, nitrate, nonvolatile beta, radium-226, radium-228, and tritium in the different hydrostratigraphic units beneath the HASB during third or fourth quarter 1994 are presented in Figures 8 through 28 (Appendix C). Isoconcentration contouring for radium-226 and -228 maps for the third quarter 1994 was not possible because of a lack of data. Water-contour maps for the monitored water-bearing units during third and fourth quarters 1994 are located in Figures 29 through 34 (Appendix C). Levels of pH and specific conductance in the three hydrostratigraphic units during fourth quarter 1994 are shown in Figures 35 through 40 (Appendix C).

Geologic cross sections of gross alpha, mercury, nitrate, nonvolatile beta, radium-226, radium-228, and tritium levels during fourth quarter 1994, as required by section IIID.H.10.c.iv of the permit, are provided in Figures 41 through 47 (Appendix C). Geologic cross sections showing equipotential surfaces third and fourth quarters 1994, as required by section IIID.H.10.c.v of the permit, are presented in Figures 48 and 49 (Appendix C).

Large-scale (1 in. = 900 ft) isoconcentration maps of cadmium, gross alpha, lead, mercury, nitrate, nonvolatile beta, radium-226, radium-228, and tritium for third or fourth quarter 1994, as required by section IIID.H.10.b.iv of the permit, and large-scale piezometric and potentiometric maps for third and fourth quarters, as required by section IIID.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 water-elevation maps and cross sections. Synchronous water elevations are water-elevations measurements taken over as short a time period as possible; thus, other field measurements and sampling for laboratory analyses are not conducted during the time these measurements are made. This short time period allows the production of steady-state piezometric and potentiometric maps by minimizing the variation in water elevations that could occur, for example, if some elevations were measured before a large rain and the remaining elevations were measured after the rain. Synchronous water elevations were measured on September 28 and 29 during third quarter 1994 and on December 21 during fourth quarter 1994.

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

Water Levels

Hydrographs showing the water elevations for the HSB wells, required by section IIID.H.10.b.ii of the permit, are provided in Appendix G. Hydrograph data include synchronous measurements and measurements taken during sampling. Rainfall recharge data for the period of this report, required by section IIID.H.10.b.viii of the permit, are presented below. Rainfall per month for the second half of 1994 in H Area (200-H) is compared to the SRS average monthly rainfall for the same period and to the SRS historical average monthly rainfall.

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

	H-Area (200-H) Rainfall/Month (1994)	SRS Average Rainfall/Month (1994)	SRS Average Rainfall/Month (historical)
July	6.54	6.98	5.18
August	6.51	5.09	4.87
September	1.87	2.59	3.78
October	10.34	10.06	3.12
November	3.15	3.10	2.70
December	5.09	5.35	3.54
Six-month total	33.50	33.17	23.19

Average synchronous water elevations in the three hydrostratigraphic units beneath the HASB for the past four quarters are shown in the following table.

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

Unit	1Q94	2Q94	3Q94	4Q94
Aquifer Zone IIB_2 (Water Table)	221.91	224.89	224.23	225.36
Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)	216.78	215.77	216.77	217.70
Aquifer Zone IIB_1 (Barnwell/McBean, lower portion)	221.58	220.76	227.91	227.50
Aquifer Unit IIA (Congaree)	171.06	170.59	170.37	170.80

During third quarter 1994, the average water elevation in Aquifer Zone IIB_2 (Water Table) declined 0.66 ft compared to second quarter 1994; the average water level in the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean) rose 1.00 ft; the average water level in the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean) rose 7.15 ft; and the average water level in Aquifer Unit IIA (Congaree) declined 0.22 ft.

During fourth quarter 1994, the average water elevation in Aquifer Zone IIB_2 (Water Table) rose 1.13 ft compared to third quarter 1994; the average water level in the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean) rose 0.93 ft; the average water level in the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean) declined 0.41 ft; and the average water level in Aquifer Unit IIA (Congaree) rose 0.43 ft.

A consistent downward vertical head relationship exists between the hydrostratigraphic zones and units monitored at the HASB (WSRC, 1992a, Section E). Flow potential is downward from Aquifer Zone IIB_2 (Water Table) to Aquifer Zone IIB_1 (Barnwell/McBean) (although at several well clusters the head difference is very small) and downward from Aquifer Zone IIB_1 (Barnwell/McBean) to Aquifer Unit IIA (Congaree). These hydrostratigraphic zones have exhibited consistent head relationships since 1988. There are no wells screened in the lower portion of Aquifer Unit IIA (Congaree) to evaluate the head relationship in this unit.

Groundwater Flow Rates and Directions

Piezometric and potentiometric maps (Figures 29 through 33, Appendix C) for the monitored water-bearing units illustrate groundwater flow patterns beneath the HASB for third and fourth quarters 1994. Large-scale piezometric and potentiometric maps for these hydrostratigraphic units during the second half of 1994, required by section IIID.H.10.b.v of the permit, are located in Volume II of this report. Prior to 1993, maps were drawn on SRS grid coordinates and flow directions were described according to SRS north; since first quarter 1993, maps and flow directions have been based on universal transverse Mercator (UTM) coordinates. Calculations for Aquifer Zone IIB_1 (Barnwell/McBean) were derived using wells in the upper portion of this unit.

During third and fourth quarters 1994, flow in Aquifer Zone IIB_2 (Water Table) was south or southeast toward Fourmile Branch. Flow in Aquifer Zone IIB_1 (Barnwell/McBean) was south-southeast or southeast. Flow in Aquifer Unit IIA (Congaree) was northwest toward Upper Three Runs Creek. Horizontal flow rate estimates for the hydrostratigraphic units during third and fourth quarters of 1994 are provided in the following table.

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

Unit	3Q94	4Q94
Aquifer Zone IIB_2 (Water Table)	130–200	140–200
Aquifer Zone IIB_1 (Barnwell/McBean)	210–400	200–340
Aquifer Unit IIA (Congaree)	350	340

Horizontal flow rate calculations provide estimates of the transport rate of constituents originating from the HASB. Flow rates in Aquifer Zone IIB_2 (Water Table) and Aquifer Zone IIB_1 (Barnwell/McBean) are calculated along two 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 is calculated along a single flow path for Aquifer Unit IIA (Congaree). 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) constants are 10 ft/day for Aquifer Zone IIB_2 (Water Table), 10 ft/day for the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean), and 65 ft/day for Aquifer Unit IIA (Congaree) (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 50 ft for path B of Aquifer Zone IIB_2 (Water Table) and to the nearest 100 ft for the remaining flow paths. 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 upon 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 for third quarter 1994 were calculated as follows:

- Aquifer Zone IIB_2 (Water Table) (see Figure 29, Appendix C):

  Flow path A

  $$\frac{10}{0.20} \times \frac{20}{1,850} \approx 0.54 \text{ ft/day}$$

  $0.54 \text{ ft/day} \times 365 \text{ days} \approx 200 \text{ ft/year}$

  Flow path B

  $$\frac{10}{0.20} \times \frac{12}{1,700} \approx 0.35 \text{ ft/day}$$

  $0.35 \text{ ft/day} \times 365 \text{ days} \approx 130 \text{ ft/year}$

- Aquifer Zone IIB_1 (Barnwell/McBean) (see Figure 31, Appendix C):

  Flow path A

  $$\frac{10}{0.20} \times \frac{16}{700} \approx 1.1 \text{ ft/day}$$

  $1.1 \text{ ft/day} \times 365 \text{ days} \approx 400 \text{ ft/year}$

  Flow path B

  $$\frac{10}{0.20} \times \frac{14}{1,200} \approx 0.58 \text{ ft/day}$$

  $0.58 \text{ ft/day} \times 365 \text{ days} \approx 210 \text{ ft/year}$

- Aquifer Unit IIA (Congaree) (see Figure 33, Appendix C):

  $$\frac{65}{0.20} \times \frac{8}{2,700} \approx 0.96 \text{ ft/day}$$

  $0.96 \text{ ft/day} \times 365 \text{ days} \approx 350 \text{ ft/year}$

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

- Aquifer Zone IIB_2 (Water Table) (see Figure 30, Appendix C):

  Flow path A

  $$\frac{10}{0.20} \times \frac{20}{1{,}800} \approx 0.56 \text{ ft/day}$$

  $0.56 \text{ ft/day} \times 365 \text{ days} \approx 200 \text{ ft/year}$

  Flow path B

  $$\frac{10}{0.20} \times \frac{12}{1{,}600} \approx 0.38 \text{ ft/day}$$

  $0.38 \text{ ft/day} \times 365 \text{ days} \approx 140 \text{ ft/year}$

- Aquifer Zone IIB_1 (Barnwell/McBean) (see Figure 32, Appendix C):

  Flow path A

  $$\frac{10}{0.20} \times \frac{16}{850} \approx 0.94 \text{ ft/day}$$

  $0.94 \text{ ft/day} \times 365 \text{ days} \approx 340 \text{ ft/year}$

  Flow path B

  $$\frac{10}{0.20} \times \frac{14}{1{,}300} \approx 0.54 \text{ ft/day}$$

  $0.54 \text{ ft/day} \times 365 \text{ days} \approx 200 \text{ ft/year}$

- Aquifer Unit IIA (Congaree) (see Figure 34, Appendix C):

  $$\frac{65}{0.20} \times \frac{8}{2{,}800} \approx 0.93 \text{ ft/day}$$

  $0.93 \text{ ft/day} \times 365 \text{ days} \approx 340 \text{ ft/year}$

Upgradient and Background Results

Wells HSB 65C, 66, and 85C are upgradient wells for Aquifer Zone IIB_2 (Water Table) (Figures 5, 29, and 30, Appendix C). No wells monitor upgradient water quality in the upper portion of Aquifer Zone IIB_1 (Barnwell/McBean) (Figures 6, 31, and 32, Appendix C). The upgradient wells in the lower portion of Aquifer Zone IIB_1 (Barnwell/McBean) are HSB 65B and 85B (Figures 6, 31, and 32, Appendix C). The upgradient wells in Aquifer Unit IIA (Congaree) are HSB140A, 141A, and 146A (Figures 7, 33, and 34, Appendix C).

During the second half of 1994, no constituent exceeded the GWPS in upgradient well HSB146A. Upgradient wells HSB 65B, 65C, 66, and 141A contained elevated levels of aluminum or tritium. Laboratory measurements of pH were out of range for GWPS in upgradient wells HSB 65B, 65C, 66, 85B, 85C, 140A, and 141A.

Wells HSB 66, 83A, and 85B are the designated background wells for the HASB. During the second half of 1994, background well HSB 83A did not contain any elevated constituents. Background well HSB 66 contained elevated levels of aluminum, pH, and tritium, and well HSB 85B contained an elevated level of pH.

Conclusions

The groundwater at the HASB contains elevated levels of radionuclides and chemicals from 30 years of receiving contaminated waste water from the H-Area Separations Facility. During the second half of 1994, 23 constituents exceeded the GWPS in wells at the HASB. Samples from 132 of the successfully sampled groundwater monitoring wells exhibited parameters exceeding the GWPS during the second half of 1994.

Aluminum was the primary metal that exceeded the GWPS during the second half of 1994, elevated in 71 HSB wells during third quarter 1994. Aluminum occurred in a maximum concentration of 10,000 μg/L in well HSB115D during third quarter. Zinc, which exceeded GWPS in 68 HSB wells during first quarter 1994, was elevated in only 18 HSB wells during the second half of 1994, with a maximum concentration of 150 μg/L in well HSB122A during third quarter. Arsenic, cyanide, lead, mercury, nickel, tin, and vanadium also exceeded the GWPS in one or more HSB wells during the second half of 1994.

Nitrate and pH, which, along with aluminum, are monitored as water quality indicators, exceeded the GWPS in numerous HSB wells during the second half of 1994. Nitrate concentrations for wells HSB 68C, 70C, 101D, 107D, 113D, 114C, 114D, 115C, 136D, and 137D were unusually high during fourth quarter 1994 compared to previous quarters. These values, which generally were 10 to 25 times higher than results for first, second, and third quarters 1994, were confirmed by the analytical laboratory. Nitrate occurred at a maximum concentration of 600,000 μg/L in well HSB136D during fourth quarter 1994. Most of the pH results were below 6.8 pH units, thus exceeding the acidic standard. In HSB wells, the minimum pH was 3.7 in well HSB113D during fourth quarter 1994; the maximum pH was 12 in well HSB123A during third and fourth quarters 1994 and in well HSB141A during fourth quarter 1994. Bis(2-ethylhexyl) phthalate and dichloromethane, common laboratory contaminants, were elevated in 2 wells and 1 well, respectively.

Iodine-129, nonvolatile beta, strontium-90, and tritium were the primary radioactive analytes elevated in wells at the HASB during the second half of 1994; each exceeded GWPS in 18 or more HSB wells during at least one quarter, and each was elevated in 20 or more wells during the first half of 1994. These constituents exhibited the following maximum activities: iodine-129 at 1.6E+02 pCi/L during third quarter 1994 in well HSB114D; nonvolatile beta at 3.4E+03 pCi/L during third quarter 1994 in well HSB115D; strontium-90 at 1.5E+03 pCi/L during third quarter 1994 in well HSB115D; and tritium at 1.6E+04 pCi/mL during third quarter 1994 in well HSB 86C. Elevated activities of cobalt-60, gross alpha, nickel-63 (as calculated), radium-226, and strontium-89[1] also were detected during this period, but less frequently.

The elevated constituents that occurred most frequently during the second half of 1994 are the same as those that occurred most frequently during the first half of 1994, except that zinc was elevated in 50 fewer wells during the second half of 1994.

As in previous quarters, elevated constituents were found primarily in Aquifer Zone IIB_2 (Water Table) and Aquifer Zone IIB_1 (Barnwell/McBean). Also as in previous quarters, several constituents at levels exceeding the GWPS occurred in one or more wells in Aquifer Unit IIA (Congaree), indicating that vertical pathways into the deeper water-bearing units exist at the HASB. A current groundwater flow model for the General Separations Area indicates that the vertical component beneath this area is important as a constituent pathway (GeoTrans, Inc., 1992).

During the second half of 1994, no constituent exceeded the GWPS in upgradient well HSB146A. The remaining upgradient wells contained elevated levels of aluminum, pH, or tritium. Downgradient HSB 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 HSL wells during the second half of 1994: aluminum, antimony, lead, nitrate, nonvolatile beta, pH, strontium-90, tritium, and zinc.

Groundwater flow directions beneath the HASB have remained relatively unchanged for several years. Flows in Aquifer Zone IIB_2 (Water Table) and Aquifer Zone IIB_1 (Barnwell/McBean) are generally south to southeast toward Fourmile Branch (using UTM coordinates). Flow in Aquifer Unit IIA (Congaree) is northwest toward Upper Three Runs Creek.

The estimated groundwater flow rates during third quarter 1994 ranged from approximately 130 to 200 ft/year in Aquifer Zone IIB_2 (Water Table) and from 210 to 400 ft/year in Aquifer Zone IIB_1 (Barnwell/McBean). The estimated flow rate in Aquifer Unit IIA (Congaree) was 350 ft/year. Flow rates during fourth quarter 1994 ranged from approximately 140 to 200 ft/year in Aquifer Zone IIB_2 (Water Table) and from 200 to 340 ft/year in Aquifer Zone IIB_1 (Barnwell/McBean). The flow rate in Aquifer Unit IIA (Congaree) was 340 ft/year.

Endnote

[1]WSRC 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.

References Cited

Aadland, R. K., and H. W. Bledsoe, 1990. **Classification of Hydrostratigraphic Units at the Savannah River Site, South Carolina**, WSRC-RP-90-987. Westinghouse Savannah River Company, Savannah River Site, Aiken, SC.

EPA (Environmental Protection Agency), 1992a. *National Primary Drinking Water Regulations.* **Code of Federal Regulations**, Title 40, Part 141, pp. 589–729. Washington, DC.

EPA (Environmental Protection Agency), 1992b. *National Secondary Drinking Water Regulations.* **Code of Federal Regulations**, Title 40, Part 143, pp. 772–776. Washington, DC.

EPD/EMS (Environmental Protection Department/Environmental Monitoring Section), 1994. **Environmental Protection Department's Well Inventory (through the second quarter of 1994)**, ESH-EMS-940518. Westinghouse Savannah River Company, Savannah River Site, Aiken, SC.

GeoTrans, Inc., 1992. **Groundwater Flow Model for the General Separations Area, Savannah River Site**. Prepared for Westinghouse Savannah River Company, Environmental Restoration Department, Savannah River Site, Aiken, SC.

Geraghty & Miller, Inc., 1990. **Evaluation of Integrated Waste Facility Closure Capping on Ground-Water Flow and Solute Transport in General Separations Area, Savannah River Site: Flow Model and Particle-Tracking Analysis, Final Report**. Prepared by Geraghty & Miller Modeling Group for Westinghouse Savannah River Company, Waste Management Technology, Savannah River Site, Aiken, SC.

Heffner, J. D., and Exploration Resources, Inc., 1991. **Technical Summary of Ground-water Quality Protection Program at the Savannah River Site (1952–1986), Volume I—Site Geohydrology and Waste Sites**, DPSP-88-1002. Westinghouse Savannah River Company, Aiken, SC.

Jaegge, W. J., N. L. Kolb, B. B. Looney, I. W. Marine, O. A. Towler, and J. R. Cook, 1987. **Radioactive Waste Burial Grounds**, DPST-85-694. Savannah River Laboratory, E. I. du Pont de Nemours & Company, Aiken, SC.

SCDHEC (South Carolina Department of Health and Environmental Control), 1990. **South Carolina Hazardous Waste Management Regulations**, November 23, 1990. Columbia, SC.

SCDHEC (South Carolina Department of Health and Environmental Control), 1992. **Hazardous Waste Permit Modification, Permit No. SC1-890-008-989**. Office of Environmental Quality Control, Bureau of Solid and Hazardous Waste Management, Columbia, SC.

WSRC (Westinghouse Savannah River Company), 1990. **Application for a Hazardous Waste Part B Post-Closure Care Permit. Volume V. H-Area Hazardous Waste Management Facility**. Revision 2, December 3, 1990. Savannah River Site, Aiken, SC.

WSRC (Westinghouse Savannah River Company), 1992a. **Application for a Hazardous Waste Part B Post-Closure Care Permit. Volume V. H-Area Hazardous Waste Management Facility**. Revision 4, March 13, 1992. Savannah River Site, Aiken, SC.

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

Errata

Third and Fourth Quarters 1993:

- Page D-29, Table 3: The results for tritium should be flagged as follows: activities equal to or greater than 2E+01 pCi/mL should have a Flag 2, and activities equal to or greater than 1.0E+01 pCi/mL but less than 2.0E+01 pCi/mL should have a Flag 1.

First and Second Quarters 1994:

- Second quarter 1994 data for wells HSL 8B and 8C were not available by publication time. Data for these wells for second quarter 1994 are provided on the following four pages.

WELL HSL 8B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72710.2 E61115.0	33.286302 °N 81.647110 °W	148.7-138.7 ft msl	288.7 ft msl	2" PVC	V	McBean (IIB_1)

SAMPLE DATE 06/28/94

FIELD DATA

Parameter	xx	2Q94	Unit
Water elevation		246.7	ft msl
pH		7.3	pH
Sp. conductance		220	µS/cm
Water temperature		22	°C
Alkalinity as $CaCO_3$		87	mg/L
Turbidity		3	NTU
Volume purged		4.0	well volumes
Sampling code			
Synchronous water level		248.5 (06/15/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable															
Barium, total recoverable								37	1				0	CN	µg/L
Cadmium, total recoverable								<6.0	1				0	CN	µg/L
Chromium, total recoverable								<9.0	1				0	CN	µg/L
Lead, total recoverable								<42	1				0	CN	µg/L
Lindane								<0.020	1				0	CN	µg/L
Mercury, total recoverable								<0.10	1				0	CN	µg/L
Selenium, total recoverable								<3.0	1				0	CN	µg/L
Silver, total recoverable								53	1		■		1	CN	µg/L

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

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable								<60	1				0	CN	µg/L
Benzene								<0.63	1.25				0	CN	µg/L
Cobalt, total recoverable								6.8	1	V			0	CN	µg/L
Copper, total recoverable								3.6	1	V			0	CN	µg/L
Cyanide								<310	1				0	CN	µg/L
Nickel, total recoverable								<20	1				0	CN	µg/L
Tin, total recoverable															
Trichloroethylene								<0.63	1.25				0	CN	µg/L
Trichlorofluoromethane															
Vanadium, total recoverable								5.6	1	V			0	CN	µg/L
Zinc, total recoverable								17	1	V			0	CN	µg/L

Water Quality Indicator Parameters

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable								400	1		■		2	CN	µg/L
Nitrate as nitrogen								<52	1				0	CN	µg/L
pH								7.0	1				0	CN	pH

Common Laboratory Contaminants

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate								<2.2	1				0	CN	µg/L
Dichloromethane								<0.63	1.25				0	CN	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 HSL 8B (cont.)

Radiological Indicator Parameters

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha								3.6E-01	1	UIV			0	CN	pCi/L
Nonvolatile beta								3.8E+00	1				0	CN	pCi/L

Measured Radionuclides

Parameter	xx	DF	Mod	GS	H	Flag	Lab	2Q94	DF	Mod	GS	H	Flag	Lab	Unit
Americium-241								2.3E-01	1	UIV			0	CN	pCi/L
Cobalt-60								0.0E+00	1				0	CN	pCi/L
Curium-242								7.3E-02	1	UIV			0	CN	pCi/L
Curium-243/244								3.7E-01	1				0	CN	pCi/L
Curium-245/246								2.2E-01	1	V			0	CN	pCi/L
Iodine-129								3.6E-01	1	UIV			0	CN	pCi/L
Plutonium-238								-1.9E-01	1	UIV			0	CN	pCi/L
Plutonium-239/240								2.3E-02	1	UIV			0	CN	pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90								-3.0E-01	1	UIV			0	CN	pCi/L
Technetium-99								1.7E+01	1	V			0	CN	pCi/L
Thorium-228								1.3E-01	1	UIV			0	CN	pCi/L
Thorium-230								4.5E-01	1				0	CN	pCi/L
Thorium-232								5.6E-02	1	UIV			0	CN	pCi/L
Thorium-234								0.0E+00	1				0	CN	pCi/L
Tritium								1.3E+01	1				1	CN	pCi/mL
Uranium-233/234								0.0E+00	1				0	CN	pCi/L
Uranium-235								5.7E-02	1	UIV			0	CN	pCi/L
Uranium-238								9.2E-02	1	UIV			0	CN	pCi/L

Calculated Radionuclides

Parameter	xx	DF	Mod	GS	H	Flag	Lab	2Q94	DF	Mod	GS	H	Flag	Lab	Unit
Americium-243								1.1E-03					0		pCi/L
Nickel-63								0.0E+00					0		pCi/L
Plutonium-241								9.0E-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 HSL 8C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72700.5 E61115.9	33.286282 °N 81.647089 °W	181.7-171.7 ft msl	288.7 ft msl	2" PVC	V	Barnwell (IIB_1)

SAMPLE DATE 06/28/94

FIELD DATA

Parameter	xx	2Q94	Unit
Water elevation		248.8	ft msl
pH		11.3	pH
Sp. conductance		623	µS/cm
Water temperature		22.3	°C
Alkalinity as $CaCO_3$		171	mg/L
Turbidity		3.8	NTU
Volume purged		5.0	well volumes
Sampling code			
Synchronous water level		249.4 (06/15/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable															
Barium, total recoverable								140	1				0	CN	µg/L
Cadmium, total recoverable								<6.0	1				0	CN	µg/L
Chromium, total recoverable								<9.0	1				0	CN	µg/L
Lead, total recoverable								<42	1				0	CN	µg/L
Lindane								<0.020	1				0	CN	µg/L
Mercury, total recoverable								<0.10	1				0	CN	µg/L
Selenium, total recoverable								<3.0	1				0	CN	µg/L
Silver, total recoverable								<3.0	1				0	CN	µg/L

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

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable								<60	1				0	CN	µg/L
Benzene								<4.2	8.3				0	CN	µg/L
Cobalt, total recoverable								<19	1				0	CN	µg/L
Copper, total recoverable								<24	1				0	CN	µg/L
Cyanide								<310	1				0	CN	µg/L
Nickel, total recoverable								<20	1				0	CN	µg/L
Tin, total recoverable															
Trichloroethylene								<4.2	8.3				0	CN	µg/L
Trichlorofluoromethane															
Vanadium, total recoverable								11	1	V			0	CN	µg/L
Zinc, total recoverable								26	1		■		0	CN	µg/L

Water Quality Indicator Parameters

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable								4,600	1		■		2	CN	µg/L
Nitrate as nitrogen								<52	1				0	CN	µg/L
pH								6.1	1		■		0	CN	pH

Common Laboratory Contaminants

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate								<2.2	1				0	CN	µg/L
Dichloromethane								<4.2	8.3				0	CN	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 HSL 8C (cont.)

Radiological Indicator Parameters

Parameter	xx	DF	Mod	ST	H	Flag	Lab	2Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha								7.1E-01	1	UIV			0	CN	pCi/L
Nonvolatile beta								4.5E+00	1				0	CN	pCi/L

Measured Radionuclides

Parameter	xx	DF	Mod	GS	H	Flag	Lab	2Q94	DF	Mod	GS	H	Flag	Lab	Unit
Americium-241								4.0E-01	1	V			0	CN	pCi/L
Cobalt-60								0.0E+00	1				0	CN	pCi/L
Curium-242								-6.0E-02	1	UIV			0	CN	pCi/L
Curium-243/244								2.8E-01	1	UIV			0	CN	pCi/L
Curium-245/246								1.3E-01	1	UIV			0	CN	pCi/L
Iodine-129								-3.0E-01	1	UIV			0	CN	pCi/L
Plutonium-238								1.9E-01	1	UIV			0	CN	pCi/L
Plutonium-239/240								-3.5E-02	1	UIV			0	CN	pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90								-3.3E-02	1	UIV			0	CN	pCi/L
Technetium-99								3.0E+01	1				0	CN	pCi/L
Thorium-228								2.4E-01	1	UIV			0	CN	pCi/L
Thorium-230								5.1E-01	1				0	CN	pCi/L
Thorium-232								2.5E-02	1	UIV			0	CN	pCi/L
Thorium-234								0.0E+00	1				0	CN	pCi/L
Tritium								4.7E+01	1		■		2	CN	pCi/mL
Uranium-233/234								1.2E-01	1	UIV			0	CN	pCi/L
Uranium-235								0.0E+00	1				0	CN	pCi/L
Uranium-238								1.8E-01	1	UI			0	CN	pCi/L

Calculated Radionuclides

Parameter	xx	DF	Mod	GS	H	Flag	Lab	2Q94	DF	Mod	GS	H	Flag	Lab	Unit
Americium-243								8.5E-04					0		pCi/L
Nickel-63								0.0E+00					0		pCi/L
Plutonium-241								-1.4E-01					0		pCi/L
Plutonium-242								-7.1E-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.

Appendix A

Standards

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Table 1. Groundwater Protection Standards

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

Analyte	Unit	Concentration/Activity Limit
SCHWMR 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
Lindane	µg/L	4
Mercury	µg/L	2
Selenium	µg/L	10
Silver	µg/L	50
SCHWMR 261 Appendix VIII/CFR 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
Tin	µg/L	10[b]
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 (Methylene chloride)	µg/L	5
Radiological Indicator Parameters		
Gross alpha	pCi/L	15
Nonvolatile beta	pCi/L	50[d]
Measured Radionuclides[e]		
Americium-241	pCi/L	6.34E+00
Cobalt-60	pCi/L	1E+02
Curium-242	pCi/L	1.33E+02
Curium-243/244	pCi/L	8.3E+00

Analyte	Unit	Concentration/Activity Limit
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

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[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] The suggested analytical method for tin in Appendix IX (EPA, 1992) is 7870, with a PQL of 8,000 µg/L; however, the method specified in the SRS contract with the analytical laboratory for analyzing tin in the Appendix IX suite is 6010, with a PQL of 10 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; results are expected for use in the 1993 annual report.

[f] The activities of these radionuclides were calculated as ratios of measured activities of other radionuclides. The activity ratios are as follows: americium-243/curium-243/244 ≈ 3E-03; nickel-63/cobalt-60 ≈ 1; plutonium-241/plutonium-239/240 ≈ 4; and plutonium-242/plutonium-239/240 ≈ 2E-05.

References Cited

EPA (U.S. Environmental Protection Agency), 1992. *Appendix IX—Ground-Water Monitoring List.* **Code of Federal Regulations**, Title 40, Part 264, pp. 324–330. Washington, DC.

SCDHEC (South Carolina Department of Health and Environmental Control), 1992 (modification effective date). **Hazardous Waste Permit SC1-890-008-989**. Office of Environmental Quality Control, Bureau of Solid and Hazardous Waste Management, Columbia, SC.

Table 2. Final Primary Drinking Water Standards

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

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

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

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

References Cited

EPA (U.S. Environmental Protection Agency), 1977. **National Interim Primary Drinking Water Regulations**, EPA-570/9-76-003. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1992a. *National Primary Drinking Water Regulations,* **Code of Federal Regulations**, Title 40, Part 141, pp. 589–729. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1992b. *National Primary Drinking Water Regulations—Synthetic Organic Chemicals and Inorganic Chemicals; National Primary Drinking Water Regulations Implementation.* **Federal Register**, July 17, 1992, pp. 31776–31849. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1993. *National Primary Drinking Water Regulations,* **Code of Federal Regulations**, Title 40, Part 141, pp. 592–732. Washington, DC.

SCDHEC (South Carolina Department of Health and Environmental Control), 1981. **State Primary Drinking Water Regulations**, R.61-58.5. Columbia, SC.

Appendix B

Flagging Criteria

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Flagging Criteria

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

- Flag 2 criteria for constituents equal the Safe Drinking Water Act (SDWA) final Primary Drinking Water Standards (PDWS), the SDWA proposed PDWS, or the SDWA Secondary Drinking Water Standards (SDWS). If a constituent does not have a drinking water standard, the Flag 2 criterion equals 10 times the method detection limit (MDL) calculated as the 90th percentile detection limit obtained recently by one of the primary analytical laboratories.

- Flag 1 criteria for constituents equal one-half of the final PDWS, one-half the proposed PDWS, or one-half the SDWS. If a constituent does not have a drinking water standard, the Flag 1 criterion equals 5 times the MDL calculated as the 90th percentile detection limit obtained recently by one of the primary analytical laboratories.

- Flag 0 criteria are assigned to constituent levels below Flag 1 criteria, constituent levels below the sample detection limits, or constituents having no flagging criteria.

The following parameters are exceptions to the flagging rules:

- EPD/EMS sets flagging criteria for pH and specific conductance. No flags are set for alkalinity, calcium, carbonate, magnesium, potassium, silica, sodium, total dissolved solids, total phosphates (as P), and total phosphorus. Analyses for these parameters are conducted as part of the biennial comprehensive analyses or by special request.

- Aesthetic parameters such as color, corrosivity, Eh, odor, surfactants, and turbidity are not assigned flagging criteria but are analyzed by special request.

- Common laboratory contaminants and cleaners such as dichloromethane (methylene chloride), ketones, phthalates, and toluene are not assigned flagging criteria unless they have primary drinking water standards. These constituents are analyzed by special request.

Analyte	Unit	Flag 1	Flag 2	Source[a]
Acenaphthene	µg/L	50	100	EPA Method 8270
Acenaphthylene	µg/L	50	100	EPA Method 8270
Acetone	µg/L	500	1,000	EPA Method 8240
Acetonitrile (Methyl cyanide)	µg/L	500	1,000	EPA Method 8240
Acetophenone	µg/L	50	100	EPA Method 8270
2-Acetylaminofluorene	µg/L	50	100	EPA Method 8270
Acrolein	µg/L	100	200	EPA Method 8240
Acrylonitrile	µg/L	100	200	EPA Method 8240
Actinium-228	pCi/L	1.64E+03	3.27E+03	Proposed PDWS (EPA, 1991)
Alachlor	µg/L	1	2	Final PDWS (EPA, 1993a)
Aldicarb[b]	µg/L	1.5	3	Final PDWS (EPA, 1993a)
Aldicarb sulfone[b]	µg/L	1	2	Final PDWS (EPA, 1993a)
Aldicarb sulfoxide[b]	µg/L	2	4	Final PDWS (EPA, 1993a)
Aldrin	µg/L	0.25	0.5	EPA Method 8080
Alkalinity (as $CaCO_3$)		No flag	No flag	Set by EPD/EMS
Allyl chloride	µg/L	250	500	EPA Method 8240
Aluminum	µg/L	25	50	SDWS (EPA, 1993b)
Aluminum, dissolved	µg/L	25	50	SDWS (EPA, 1993b)
Aluminum, total recoverable	µg/L	25	50	SDWS (EPA, 1993b)

Analyte	Unit	Flag 1	Flag 2	Source
Americium-241	pCi/L	3.17E+00	6.34E+00	Proposed PDWS (EPA, 1991)
Americium-243	pCi/L	3.19E+00	6.37E+00	Proposed PDWS (EPA, 1991)
4-Aminobiphenyl	µg/L	50	100	EPA Method 8270
Ammonia	µg/L	500	1,000	APHA Method 417B
Ammonia nitrogen	µg/L	500	1,000	EPA Method 350.1
Aniline	µg/L	50	100	EPA Method 8270
Anthracene	µg/L	50	100	EPA Method 8270
Antimony	µg/L	3	6	Final PDWS (EPA, 1993a)
Antimony, dissolved	µg/L	3	6	Final PDWS (EPA, 1993a)
Antimony, total recoverable	µg/L	3	6	Final PDWS (EPA, 1993a)
Antimony-125	pCi/L	1.5E+02	3E+02	Interim Final PDWS (EPA, 1977)
Aramite	µg/L	50	100	EPA Method 8270
Arsenic	µg/L	25	50	Final PDWS (EPA, 1993a)
Arsenic, dissolved	µg/L	25	50	Final PDWS (EPA, 1993a)
Arsenic, total recoverable	µg/L	25	50	Final PDWS (EPA, 1993a)
Asbestos	Fibers/L	3,500,000	7,000,000	Final PDWS (EPA, 1993a)
Atrazine	µg/L	1.5	3	Final PDWS (EPA, 1993a)
Azobenzene	µg/L	50	100	EPA Method 625
Barium	µg/L	1,000	2,000	Final PDWS (EPA, 1993a)
Barium, dissolved	µg/L	1,000	2,000	Final PDWS (EPA, 1993a)
Barium, total recoverable	µg/L	1,000	2,000	Final PDWS (EPA, 1993a)
Barium-140[c]	pCi/L	4.5E+01	9E+01	Interim Final PDWS (EPA, 1977)
Benzene	µg/L	2.5	5	Final PDWS (EPA, 1993a)
alpha-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
beta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
delta-Benzene hexachloride	µg/L	0.25	0.5	EPA Method 8080
Benzidine	µg/L	250	500	EPA Method 8270
Benzo[*a*]anthracene	µg/L	0.05	0.1	Proposed PDWS (EPA, 1990)
Benzo[*b*]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzo[*k*]fluoranthene	µg/L	0.1	0.2	Proposed PDWS (EPA, 1990)
Benzoic acid	µg/L	250	500	EPA Method 8270
Benzo[*g,h,i*]perylene	µg/L	50	100	EPA Method 8270
Benzo[*a*]pyrene	µg/L	0.1	0.2	Final PDWS (EPA, 1993a)
1,4-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[d]	pCi/L	4.5E+03	9E+03	Interim Final PDWS (EPA, 1977)
Cobalt-60	pCi/L	5E+01	1E+02	Interim Final PDWS (EPA, 1977)
Color		No flag	No flag	Set by EPD/EMS
Copper	µg/L	500	1,000	Final PDWS (SCDHEC, 1981)
Copper, dissolved	µg/L	500	1,000	Final PDWS (SCDHEC, 1981)
Copper, total recoverable	µg/L	500	1,000	Final PDWS (SCDHEC, 1981)
Corrosivity		No flag	No flag	Set by EPD/EMS
m-Cresol (3-Methylphenol)	µg/L	50	100	EPA Method 8270
o-Cresol (2-Methylphenol)	µg/L	50	100	EPA Method 8270
p-Cresol (4-Methylphenol)	µg/L	50	100	EPA Method 8270
Curium-242	pCi/L	6.65E+01	1.33E+02	Proposed PDWS (EPA, 1991)
Curium-243	pCi/L	4.15E+00	8.3E+00	Proposed PDWS (EPA, 1991)
Curium-243/244[e]	pCi/L	4.15E+00	8.3E+00	Proposed PDWS (EPA, 1991)
Curium-244	pCi/L	4.92E+00	9.84E+00	Proposed PDWS (EPA, 1991)
Curium-245/246[e]	pCi/L	3.12E+00	6.23E+00	Proposed PDWS (EPA, 1991)

Analyte	Unit	Flag 1	Flag 2	Source
Curium-246	pCi/L	3.14E+00	6.27E+00	Proposed PDWS (EPA, 1991)
Cyanide	µg/L	100	200	Final PDWS (EPA, 1993a)
Dalapon[b]	µg/L	100	200	Final PDWS (EPA, 1993a)
p,p'-DDD	µg/L	0.5	1	EPA Method 8080
p,p'-DDE	µg/L	0.5	1	EPA Method 8080
p,p'-DDT	µg/L	0.5	1	EPA Method 8080
Diallate	µg/L	50	100	EPA Method 8270
Dibenz[*a,h*]anthracene	µg/L	0.15	0.3	Proposed PDWS (EPA, 1990)
Dibenzofuran	µg/L	50	100	EPA Method 8270
Dibromochloromethane	µg/L	50	100	Final PDWS (EPA, 1993a)
1,2-Dibromo-3-chloropropane	µg/L	0.1	0.2	Final PDWS (EPA, 1993a)
1,2-Dibromoethane	µg/L	0.025	0.05	Final PDWS (EPA, 1993a)
Dibromomethane (Methylene bromide)	µg/L	5	10	EPA Method 8240
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 (Methylene chloride)	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)

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

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

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

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

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

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

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[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.

References Cited

EPA (U.S. Environmental Protection Agency), 1977. **National Interim Primary Drinking Water Regulations**, EPA-570/9-76-003. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1986. *Water Pollution Control; National Primary Drinking Water Regulations, Radionuclides (Proposed).* **Federal Register**, September 30, 1986, pp. 34835–34862. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1990. *National Primary and Secondary Drinking Water Regulations; Synthetic Organic Chemicals and Inorganic Chemicals (Proposed Rule).* **Federal Register**, July 25, 1990, pp. 30369–30448. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1991. *National Primary Drinking Water Regulations; Radionuclides; Proposed Rule.* **Federal Register**, July 18, 1991, pp. 33052–33127. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1993a. *National Primary Drinking Water Regulations.* **Code of Federal Regulations**, Title 40, Part 141, pp. 592–732. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1993b. *National Secondary Drinking Water Regulations.* **Code of Federal Regulations**, Title 40, Part 143, pp. 774–777. Washington, DC.

SCDHEC (South Carolina Department of Health and Environmental Control), 1981. **State Primary Drinking Water Regulations**, R.61–58.5. Columbia, SC.

Appendix C

Figures

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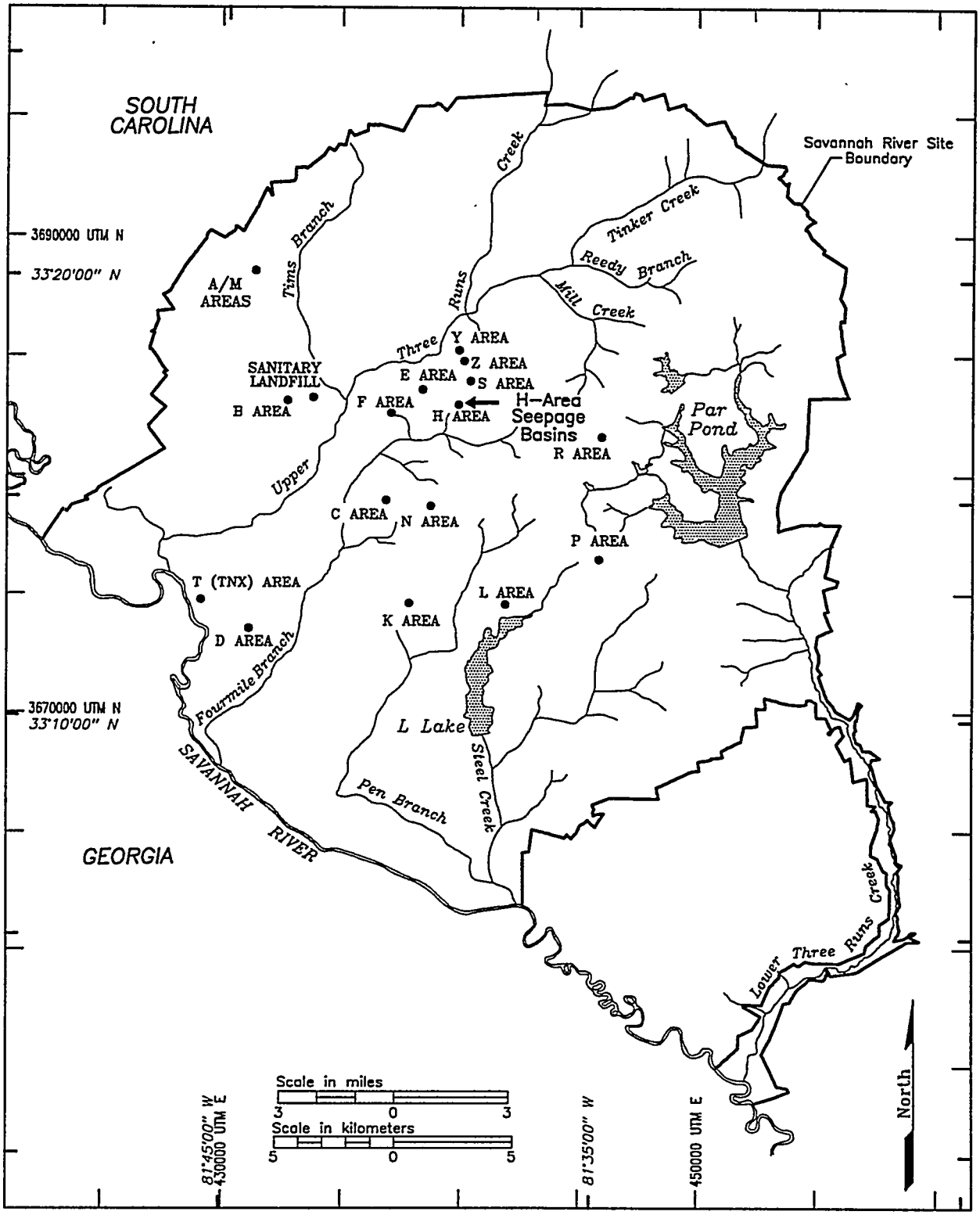


Figure 1. Location of the H-Area Seepage Basins at the Savannah River Site

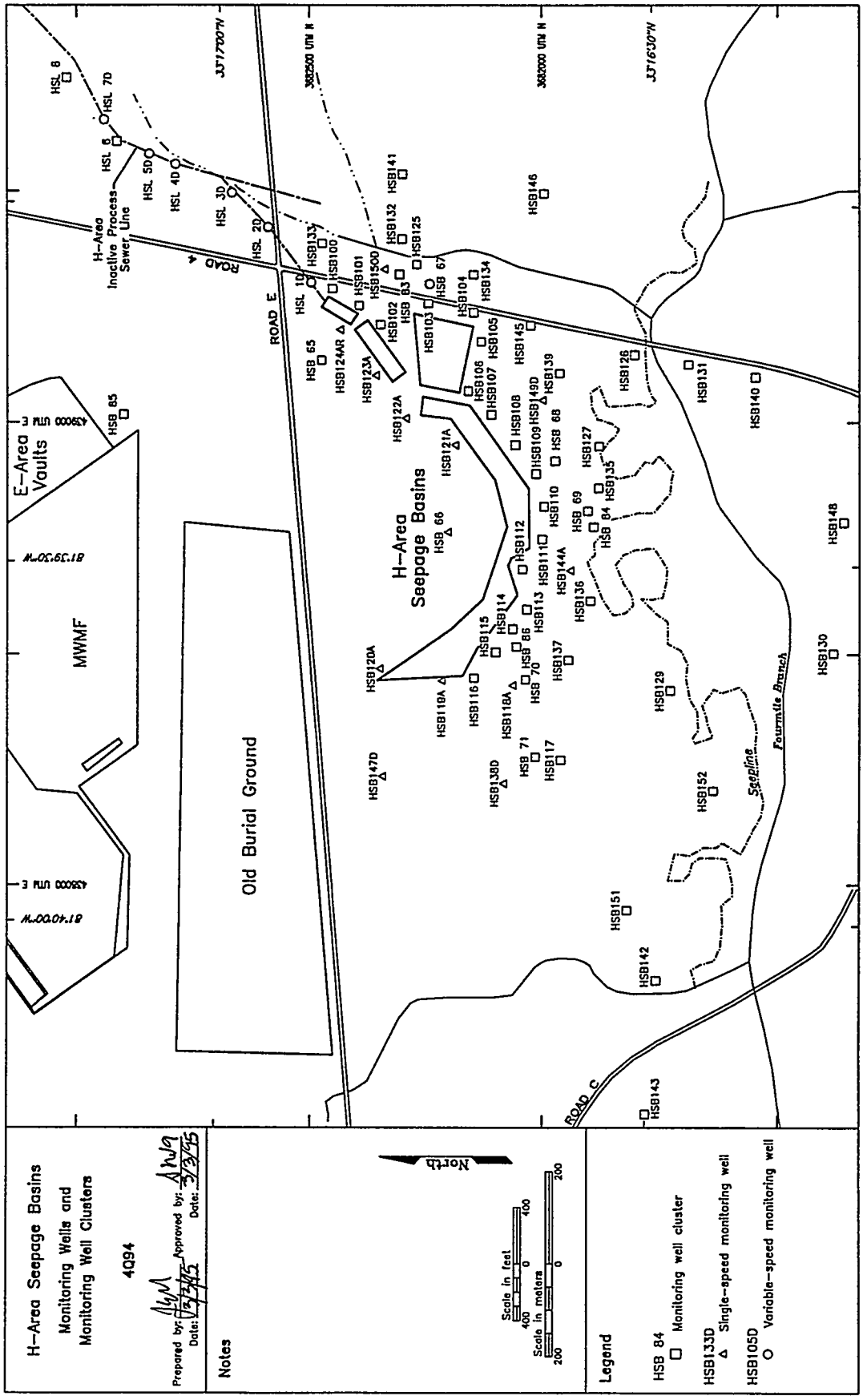


Figure 2. Location of the Groundwater Monitoring Wells at the H-Area Seepage Basins

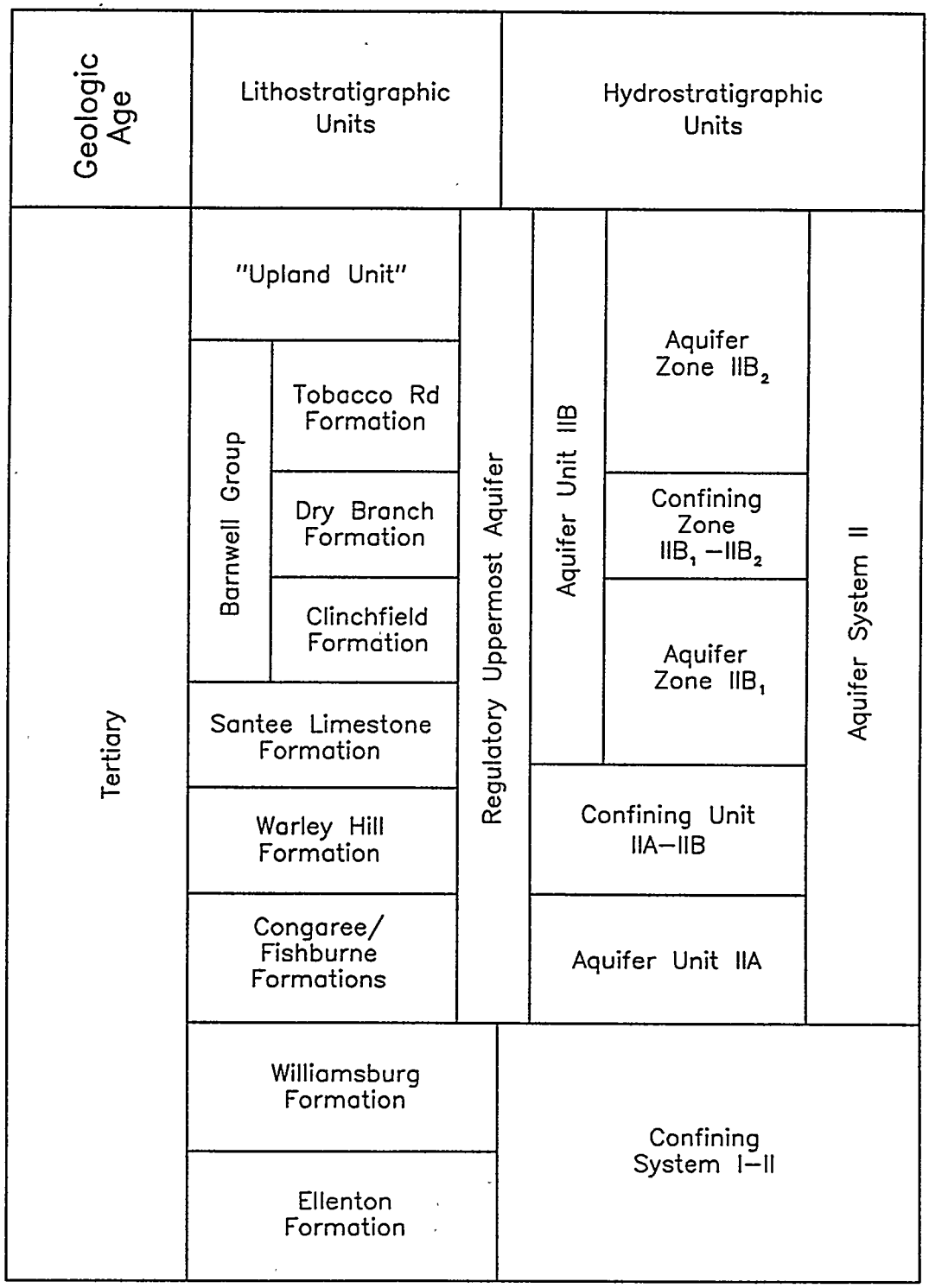


Figure 3. Hydrostratigraphic Nomenclature

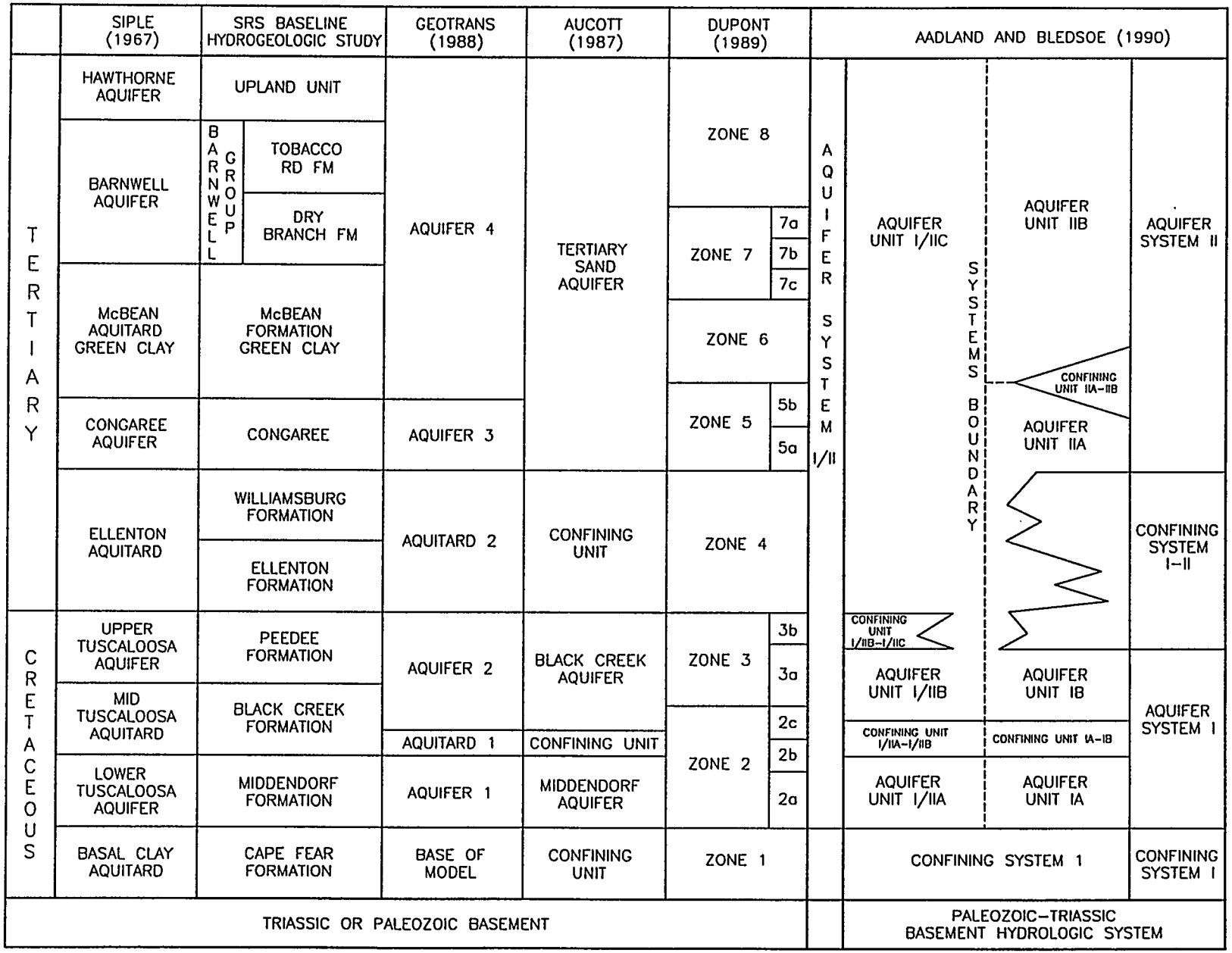


Figure 4. Regional Correlation of Hydrostratigraphic and Lithostratigraphic Nomenclatures

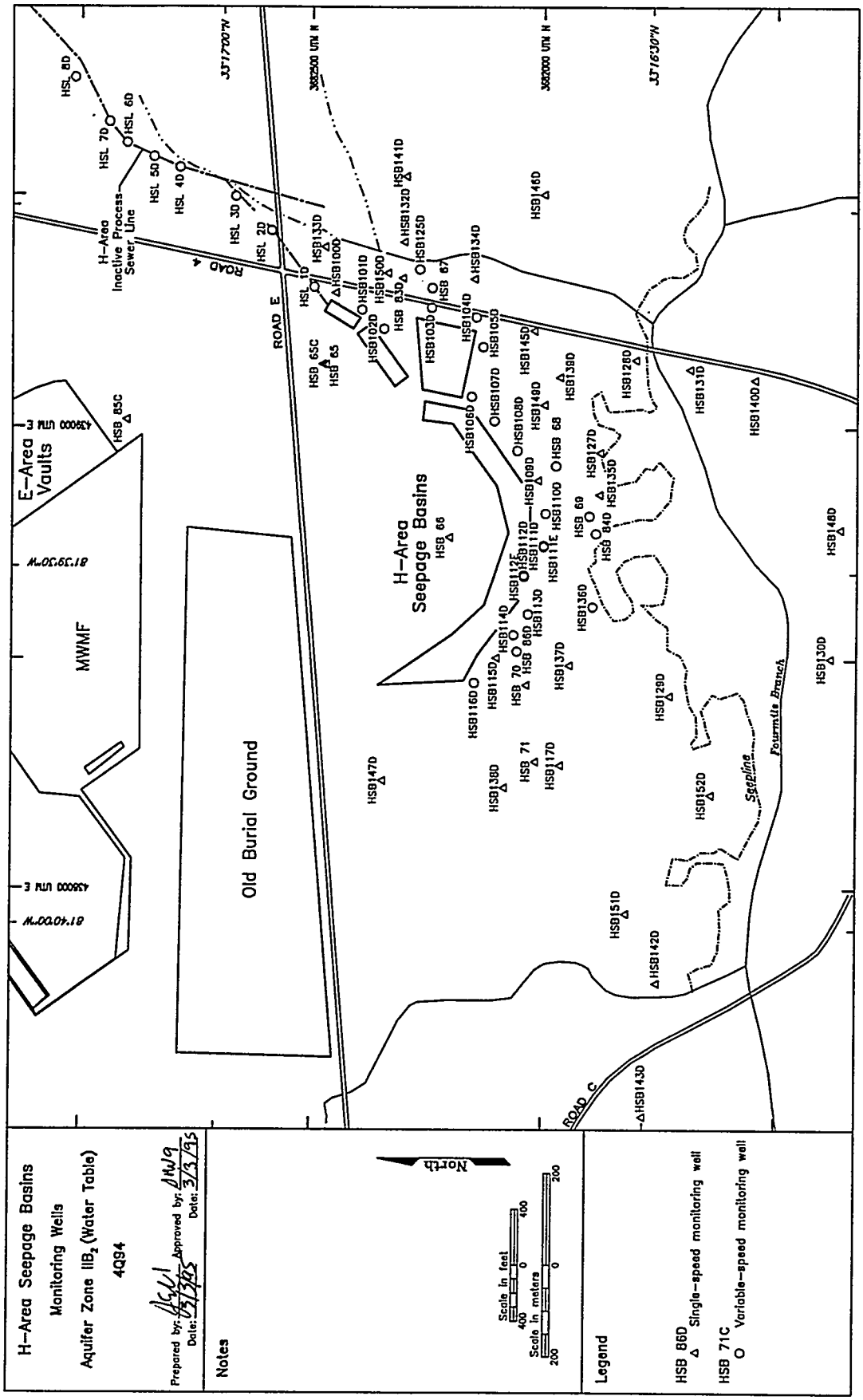


Figure 5. Location of Aquifer Zone IIB_2 (Water Table) Groundwater Monitoring Wells at the H-Area Seepage Basins

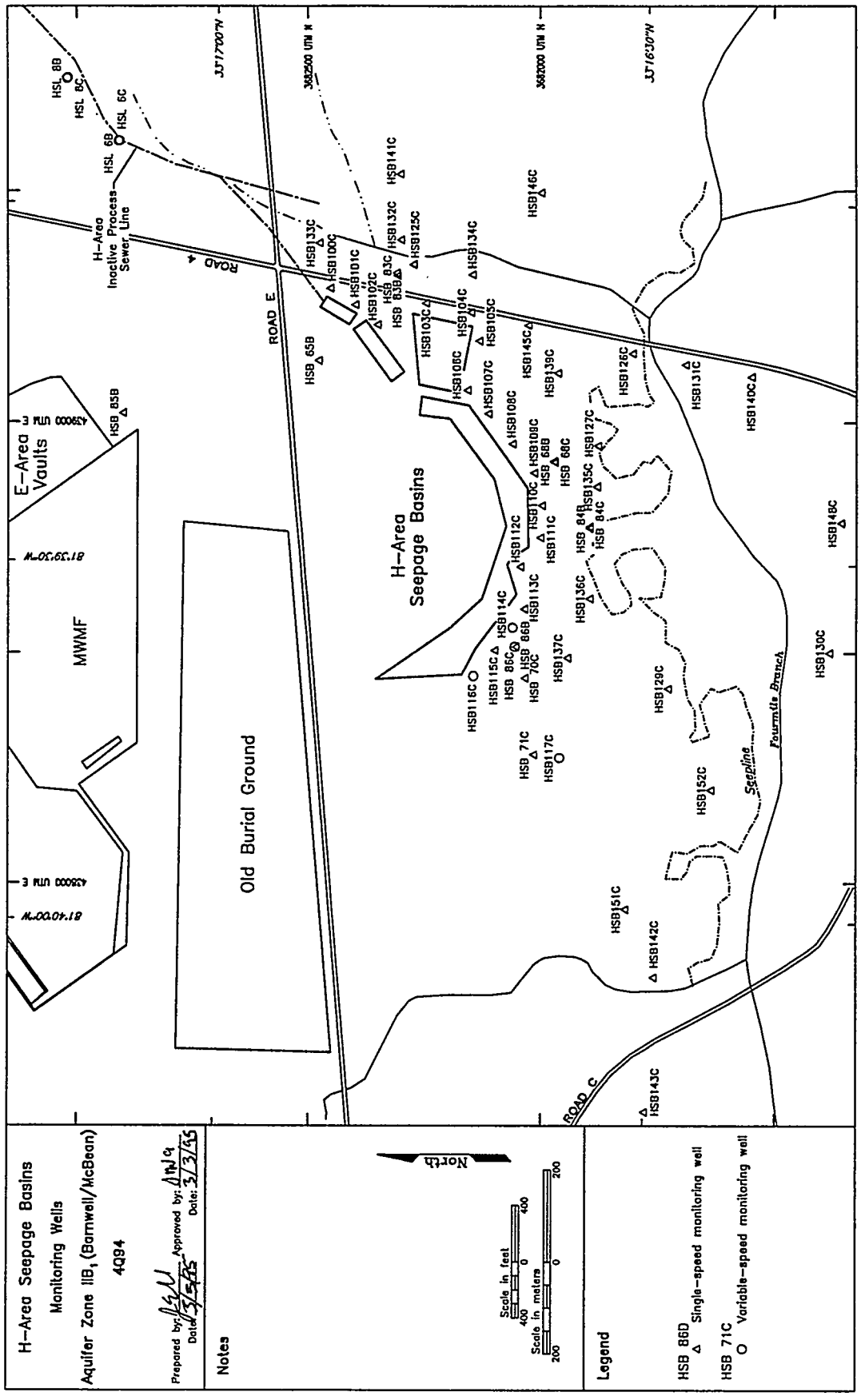


Figure 6. Location of Aquifer Zone IIB$_1$ (Barnwell/McBean) Groundwater Monitoring Wells at the H-Area Seepage Basins

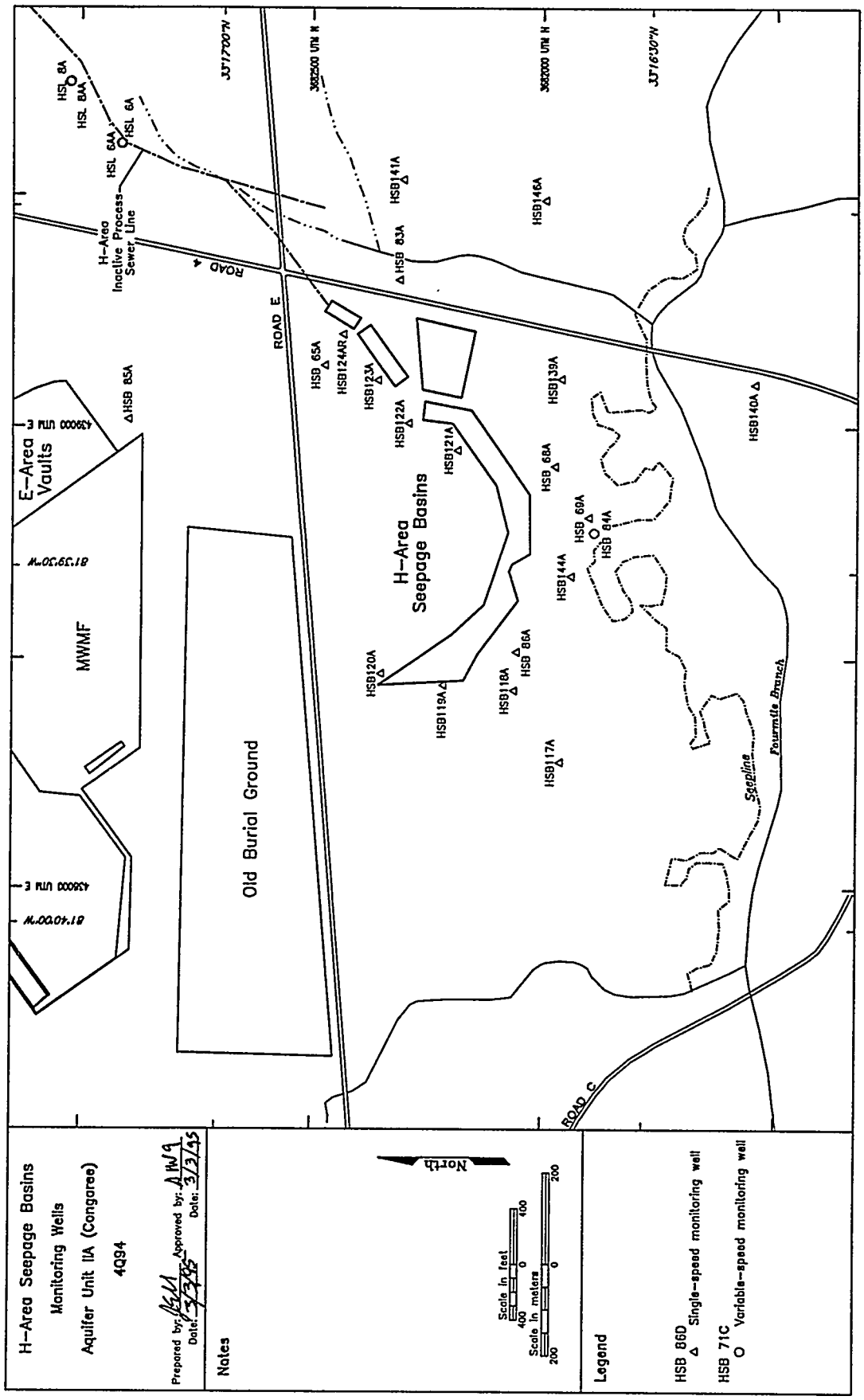


Figure 7. Location of Aquifer Unit IIA (Congaree) Groundwater Monitoring Wells at the H-Area Seepage Basins

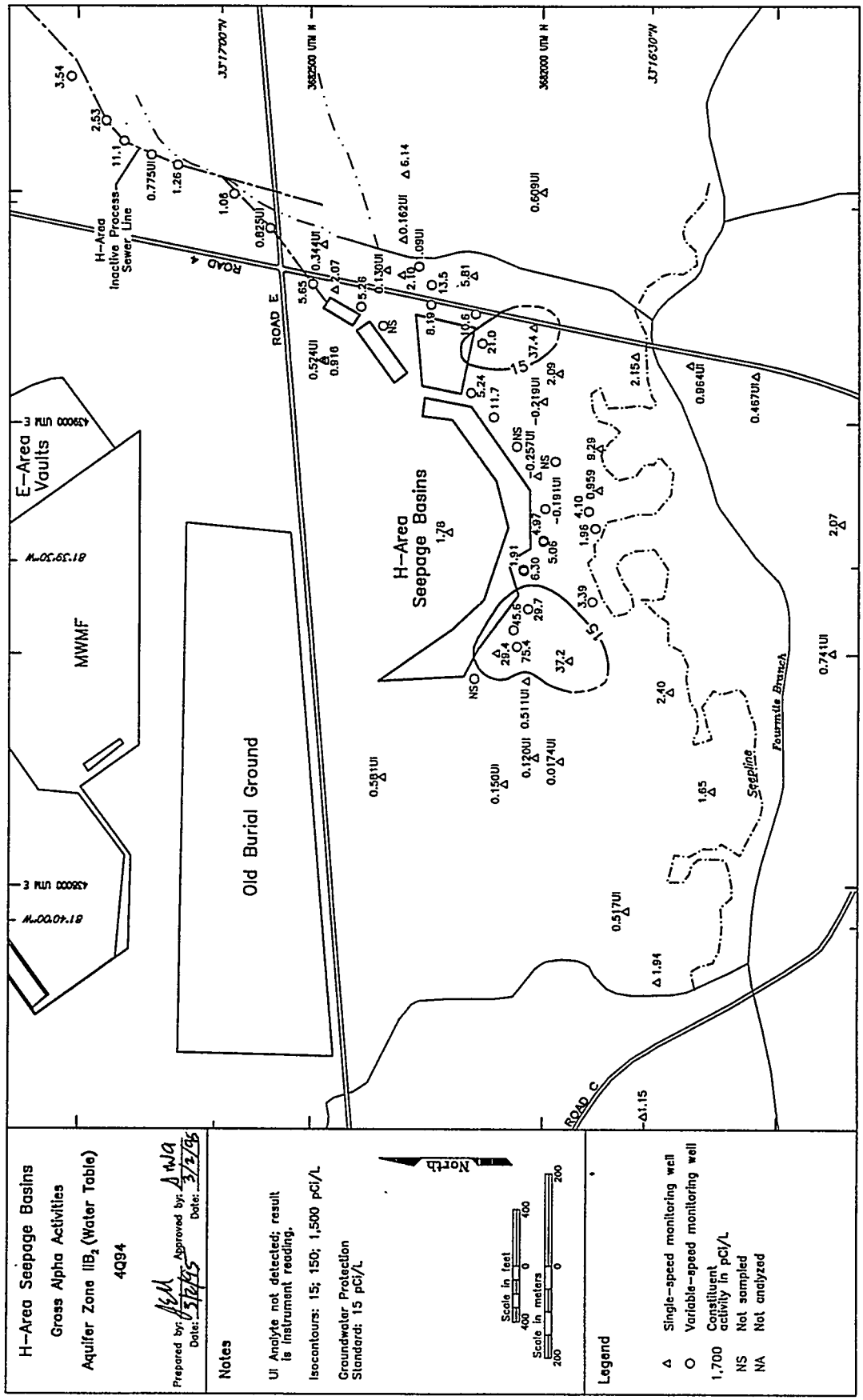


Figure 8. Gross Alpha Activities in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

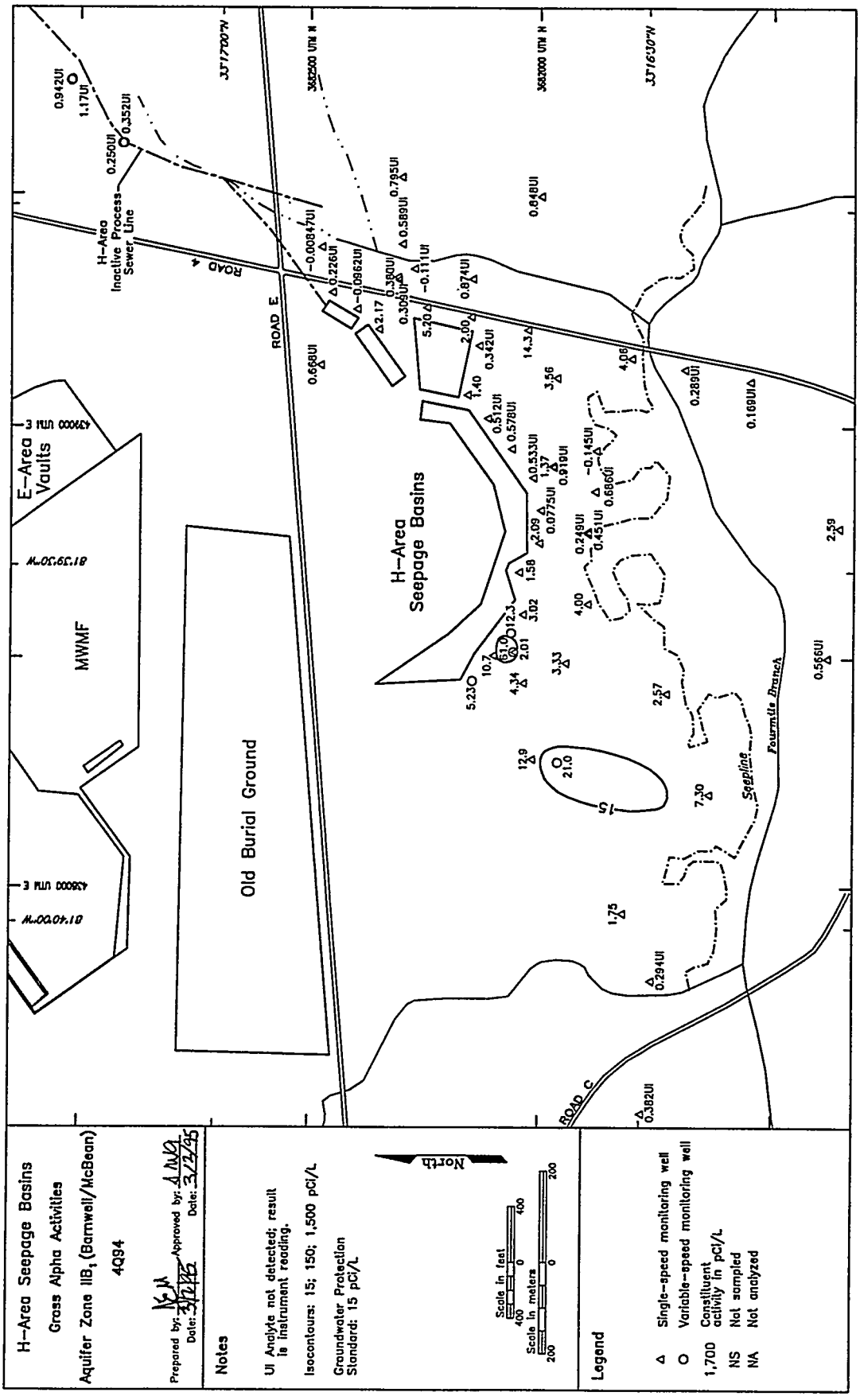


Figure 9. Gross Alpha Activities in Aquifer Zone IIB$_1$ (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

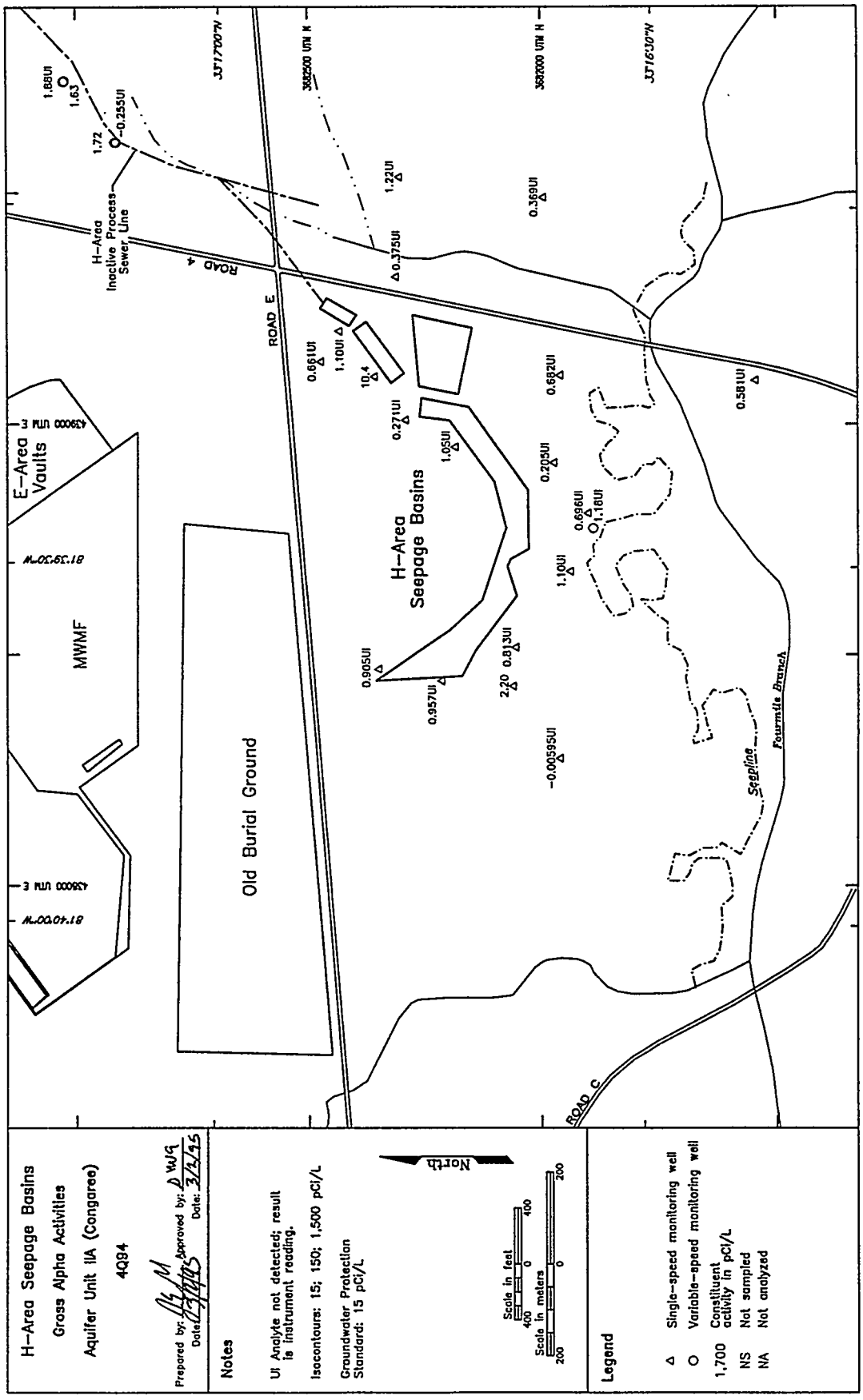


Figure 10. Gross Alpha Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

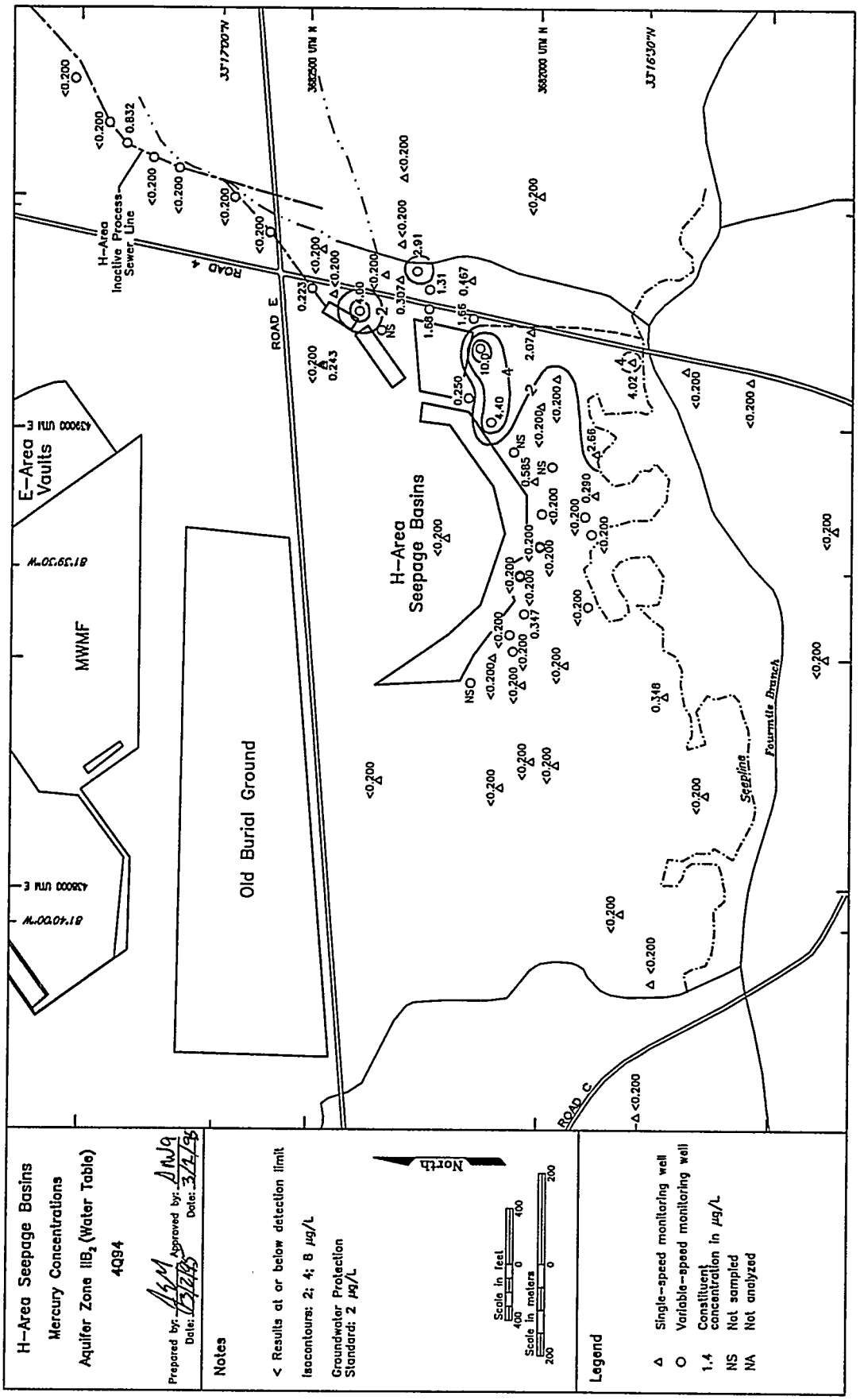


Figure 11. Mercury Concentrations in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

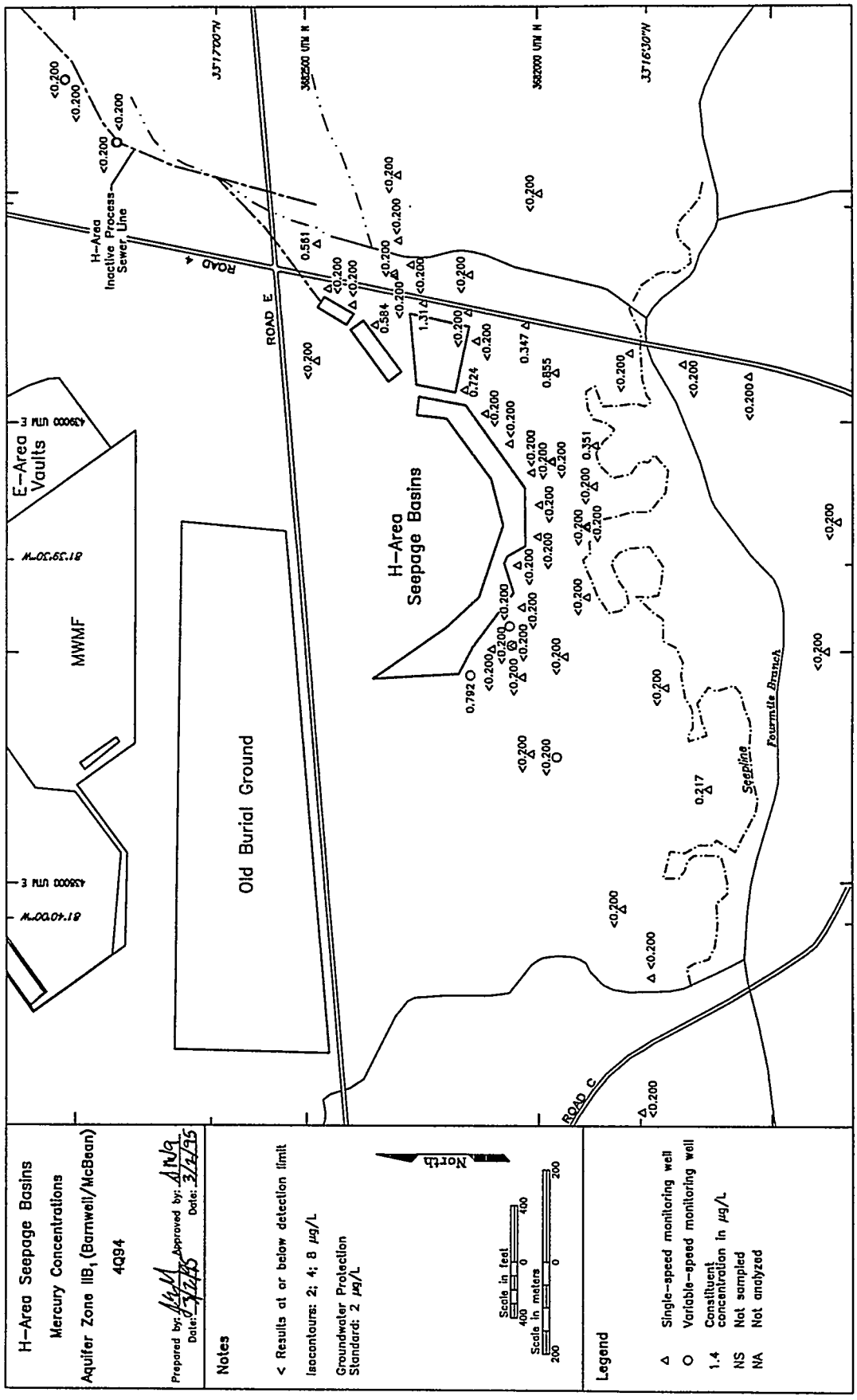


Figure 12. Mercury Concentrations in Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

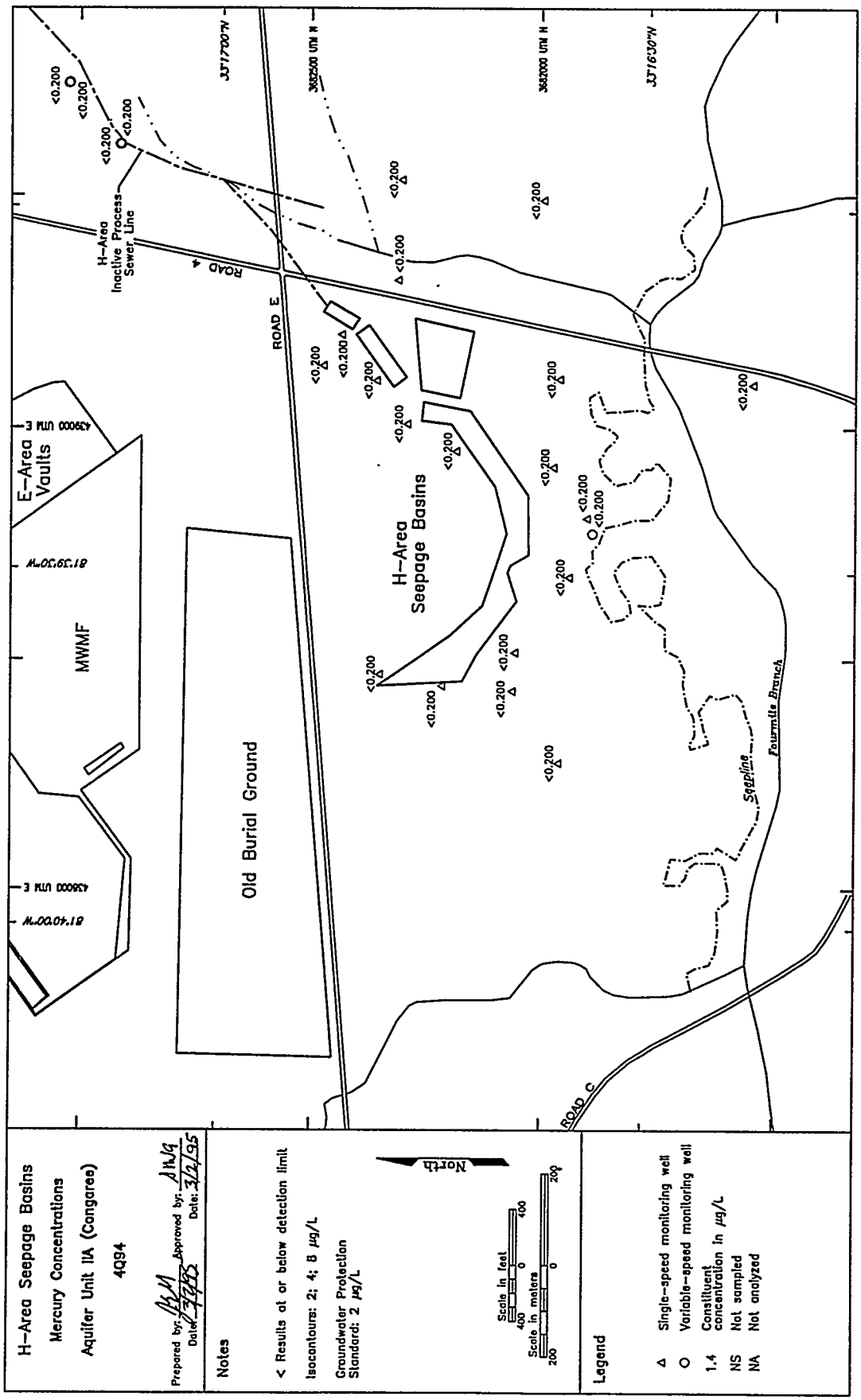


Figure 13. Mercury Concentrations in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

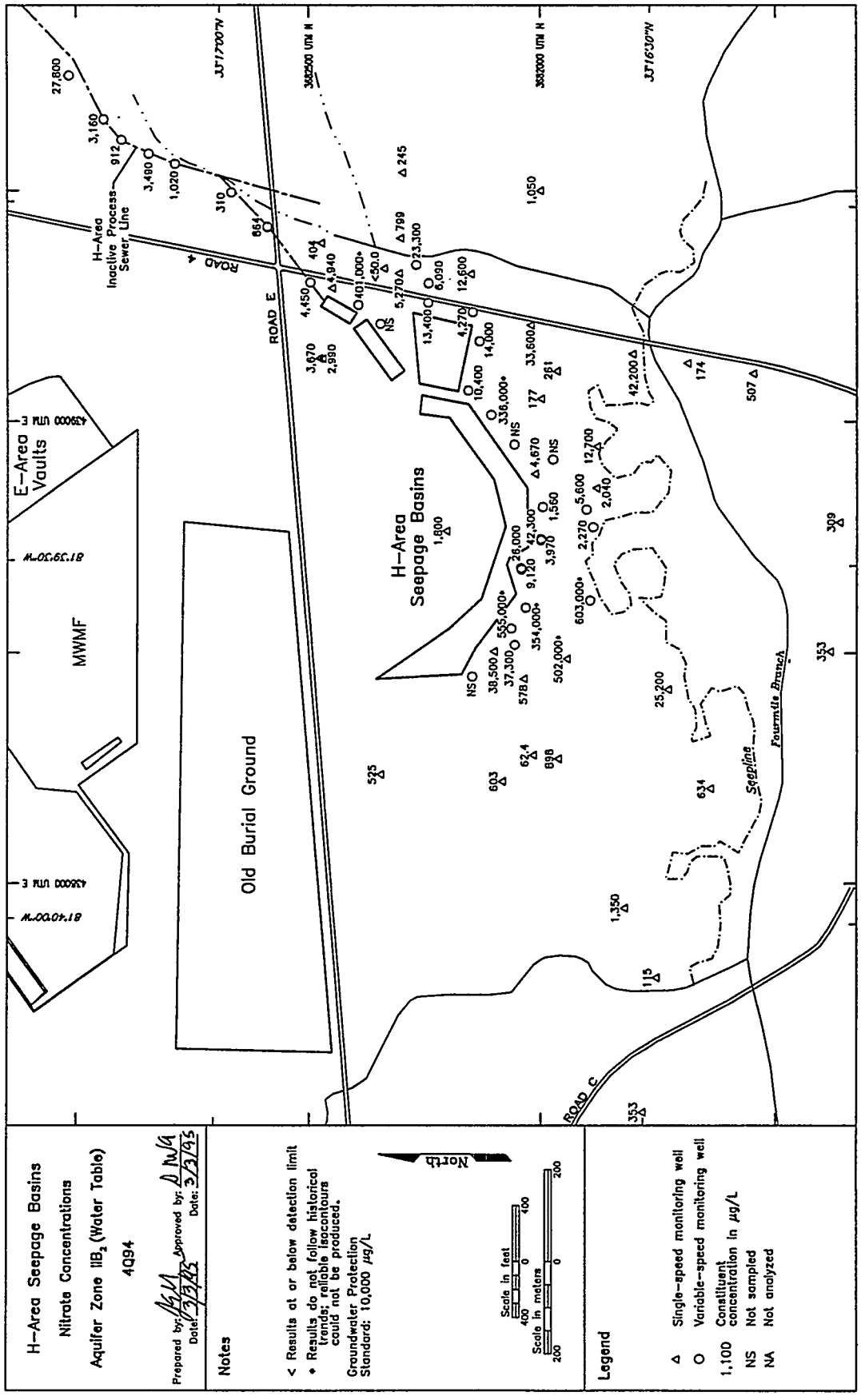


Figure 14. Nitrate Concentrations in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

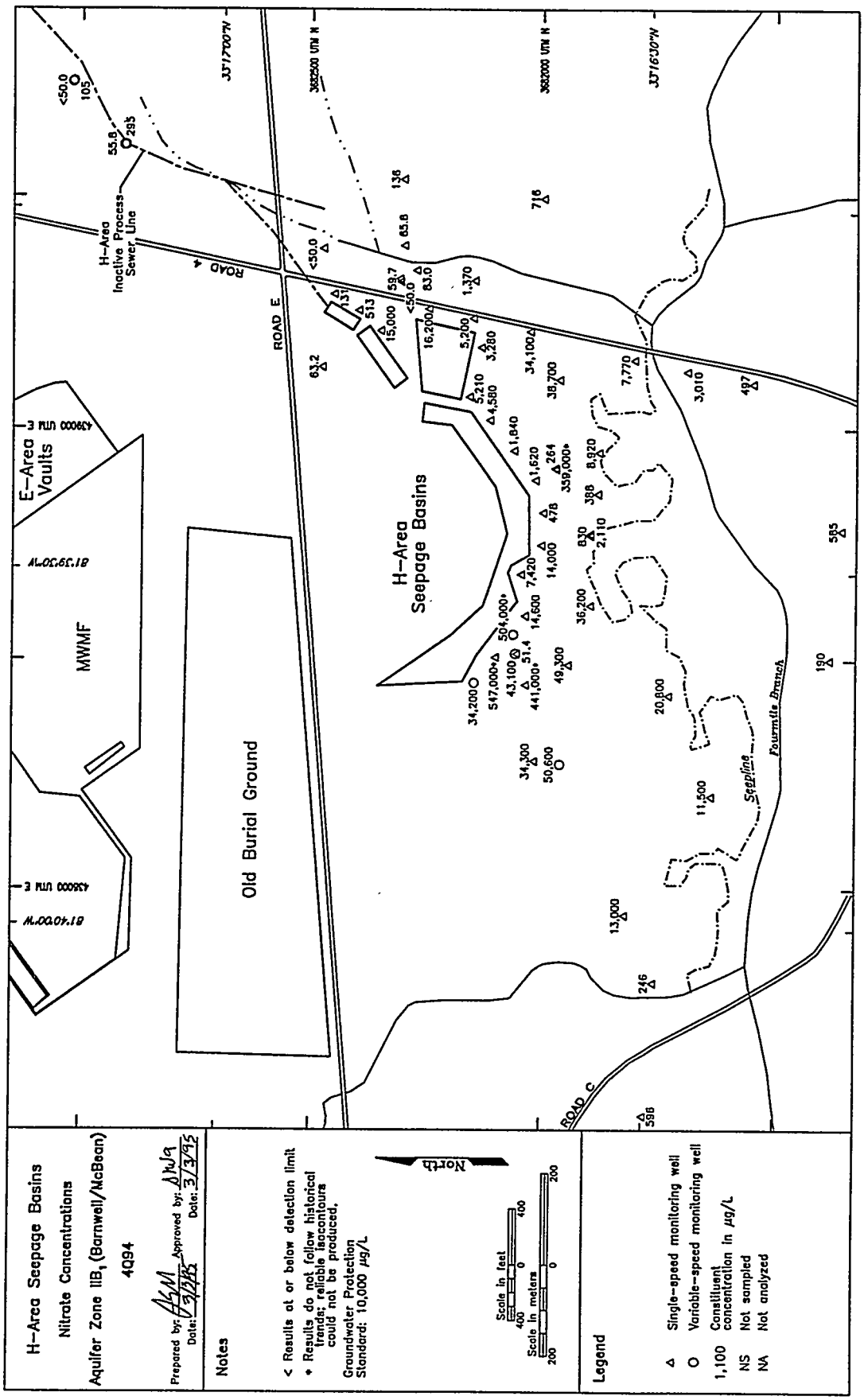


Figure 15. Nitrate Concentrations in Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

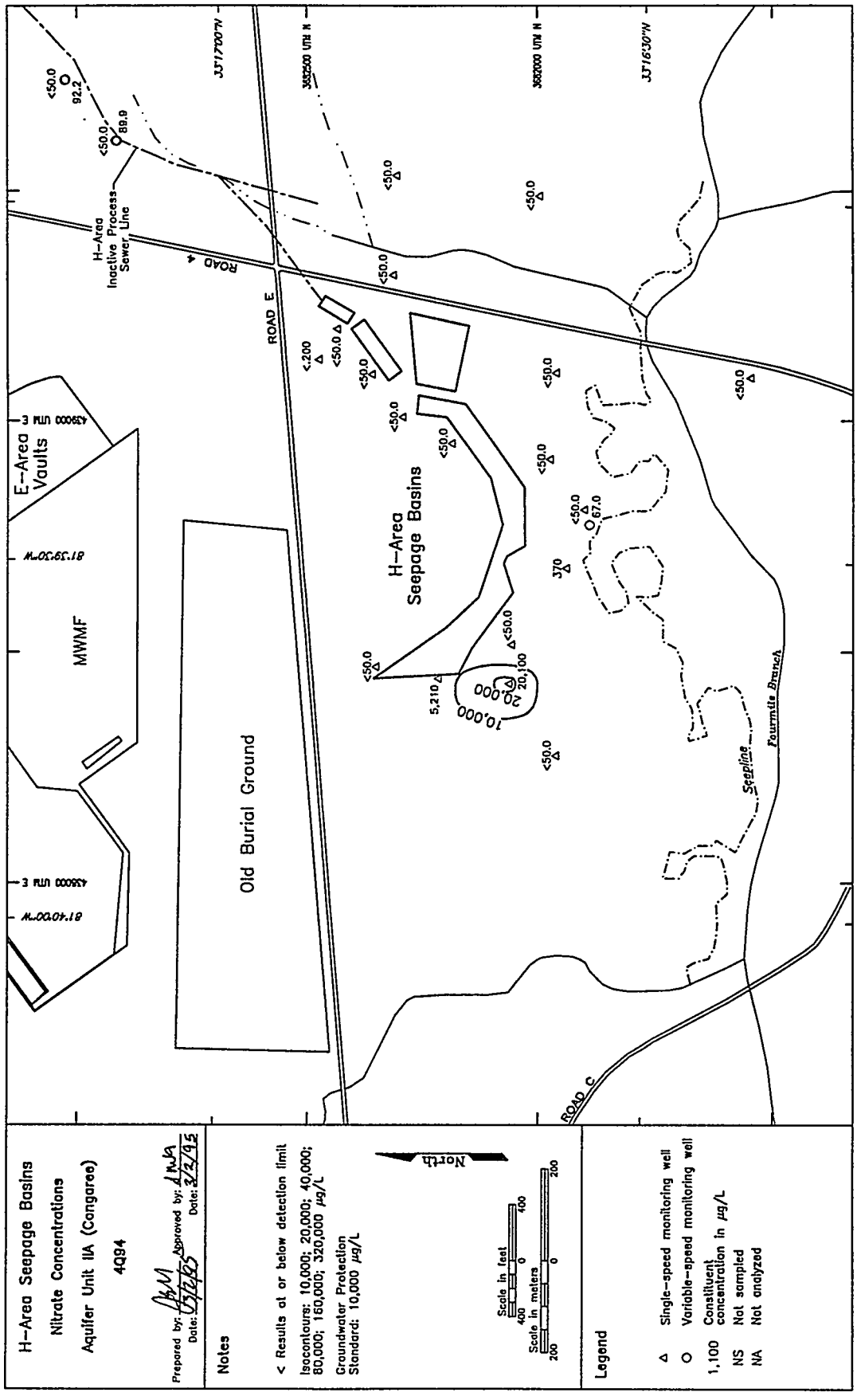


Figure 16. Nitrate Concentrations in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

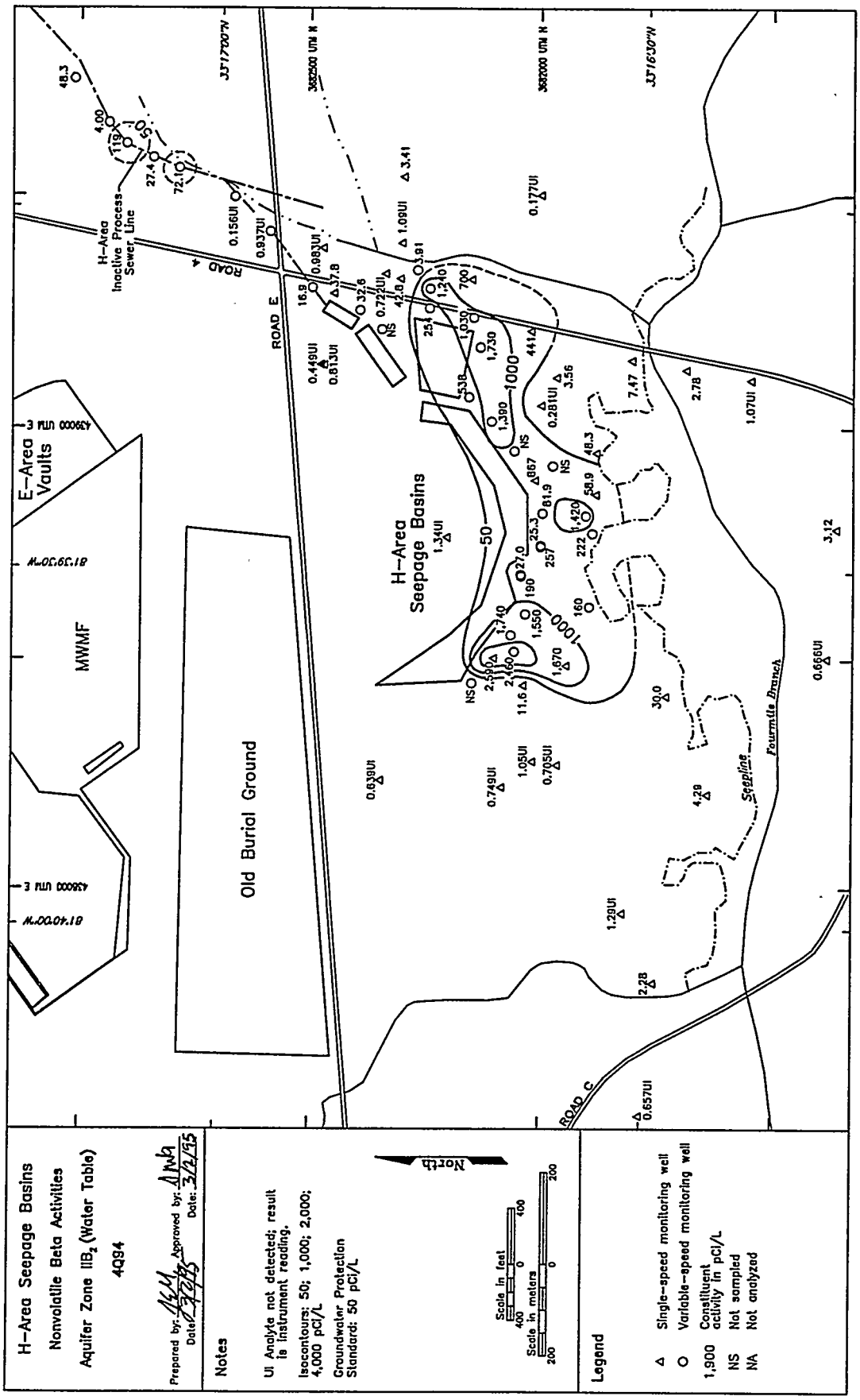


Figure 17. Nonvolatile Beta Activities in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

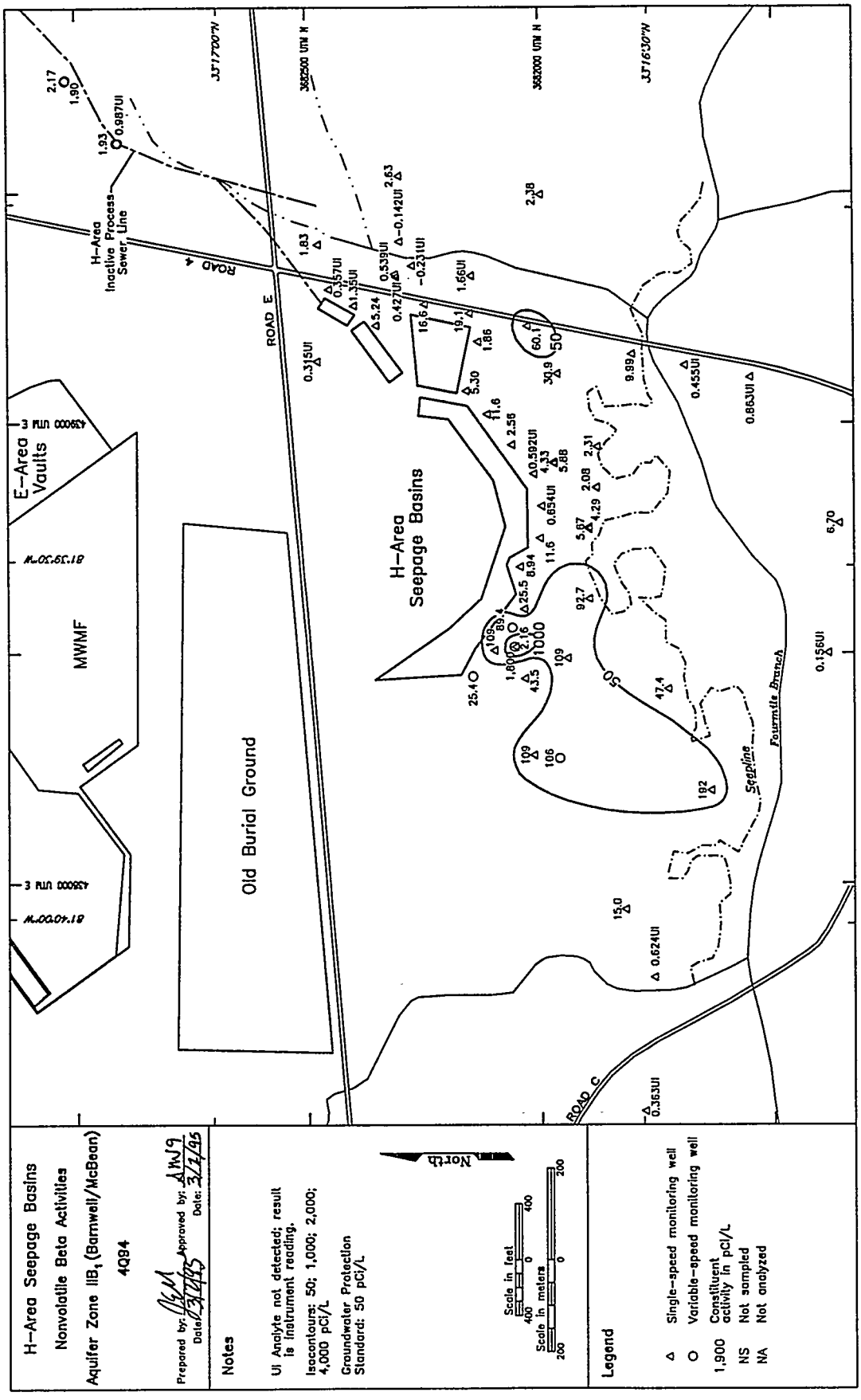


Figure 18. Nonvolatile Beta Activities in Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

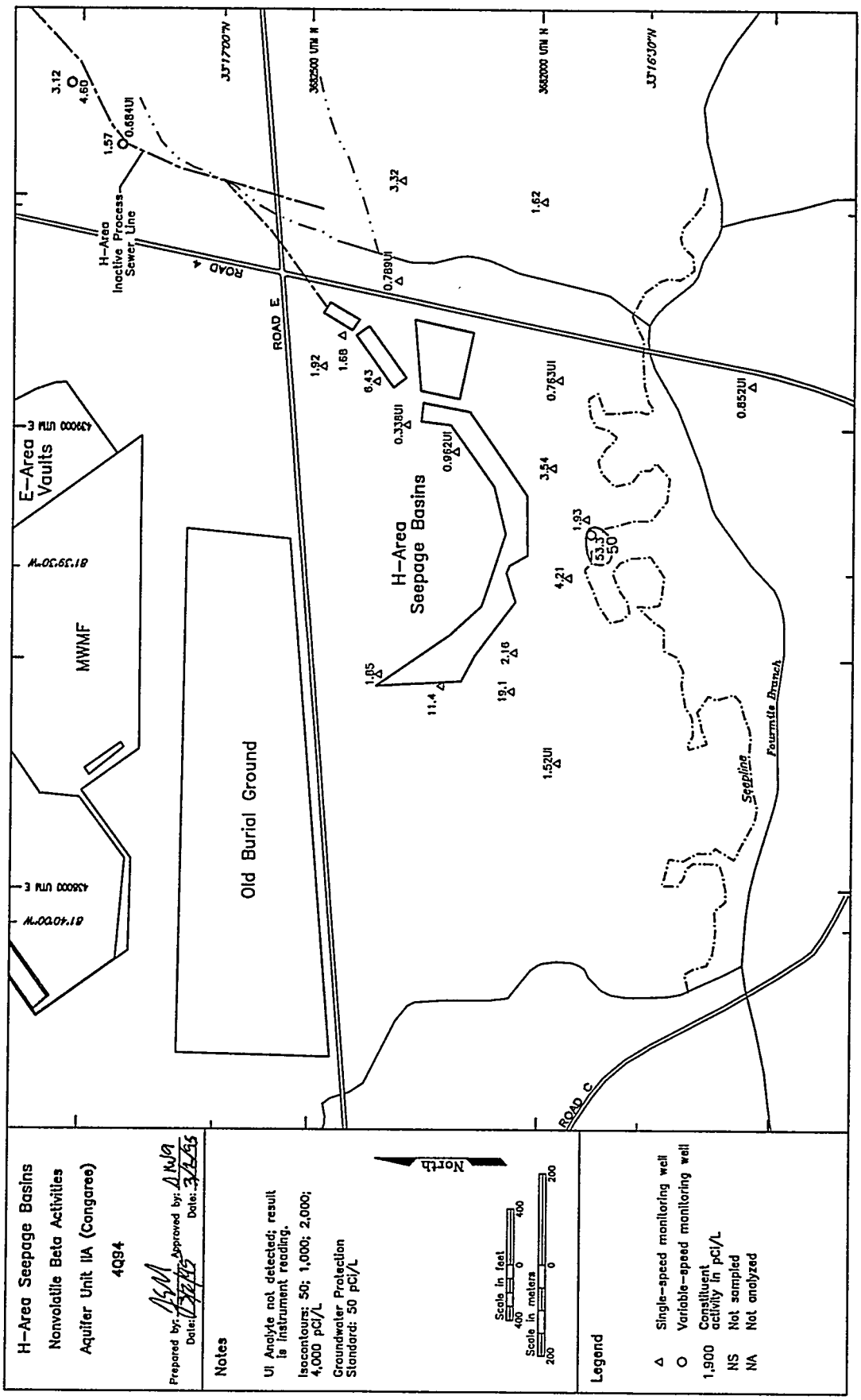


Figure 19. Nonvolatile Beta Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

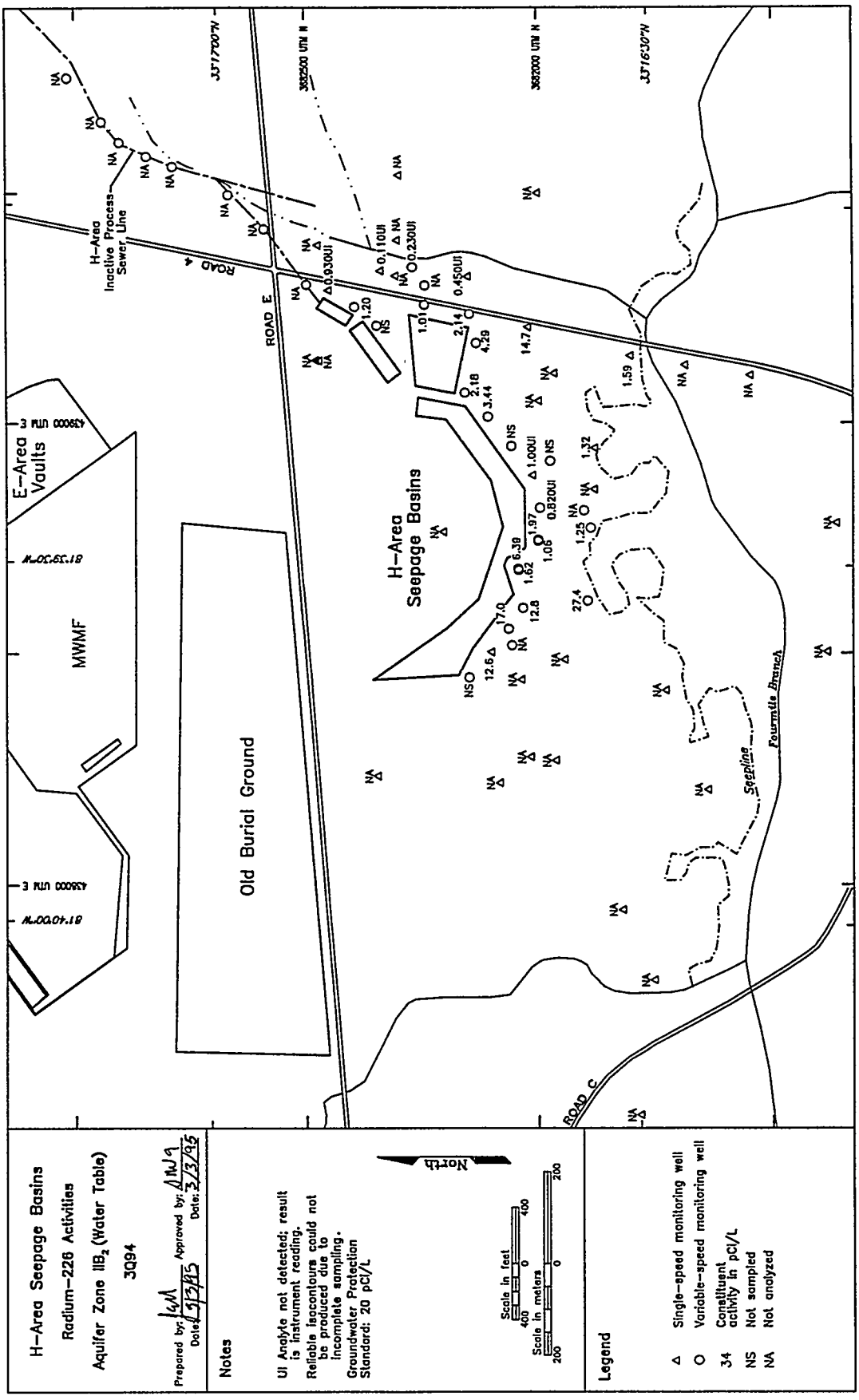


Figure 20. Radium-226 Activities in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Third Quarter 1994

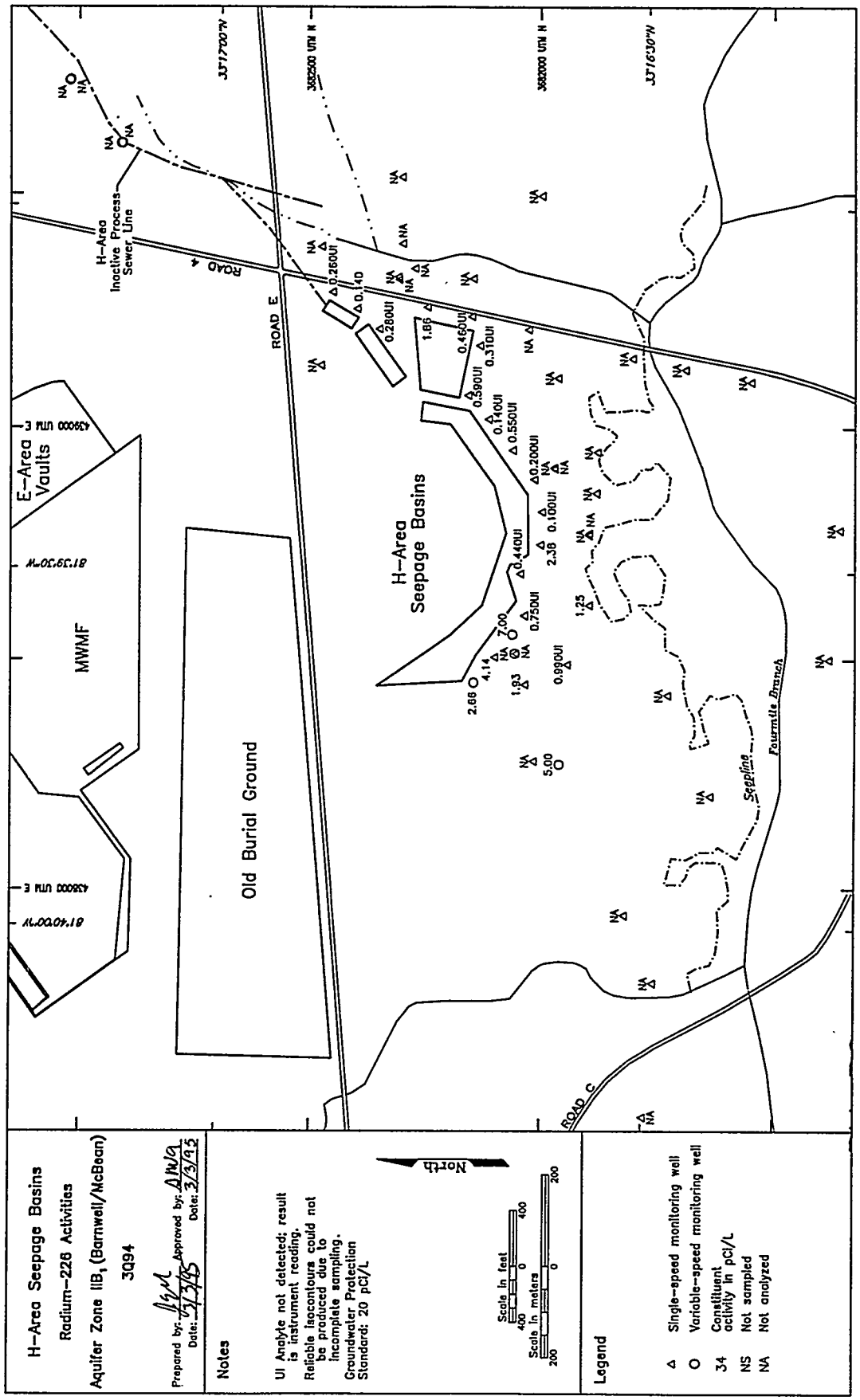


Figure 21. Radium-226 Activities in Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Third Quarter 1994

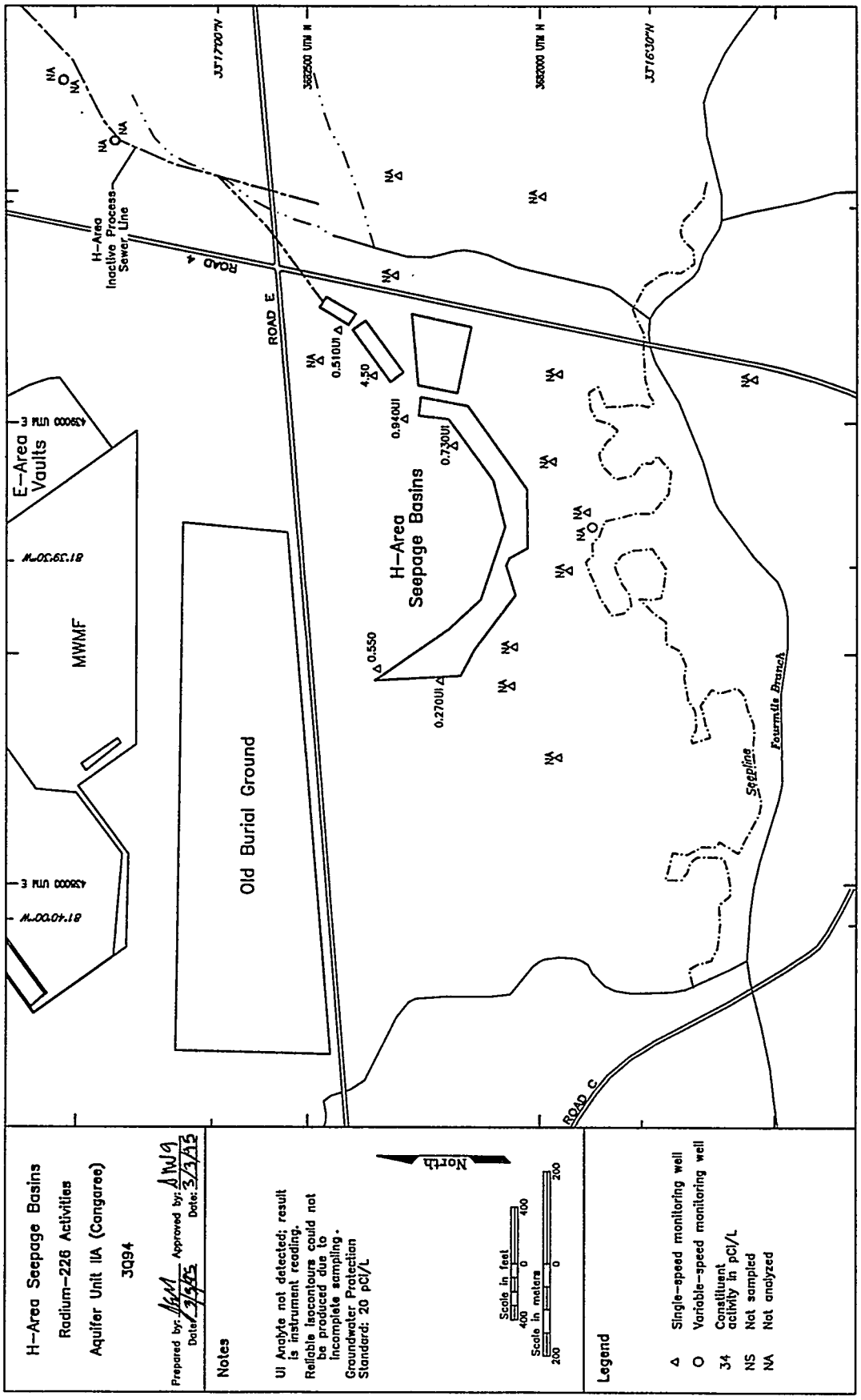


Figure 22. Radium-226 Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Third Quarter 1994

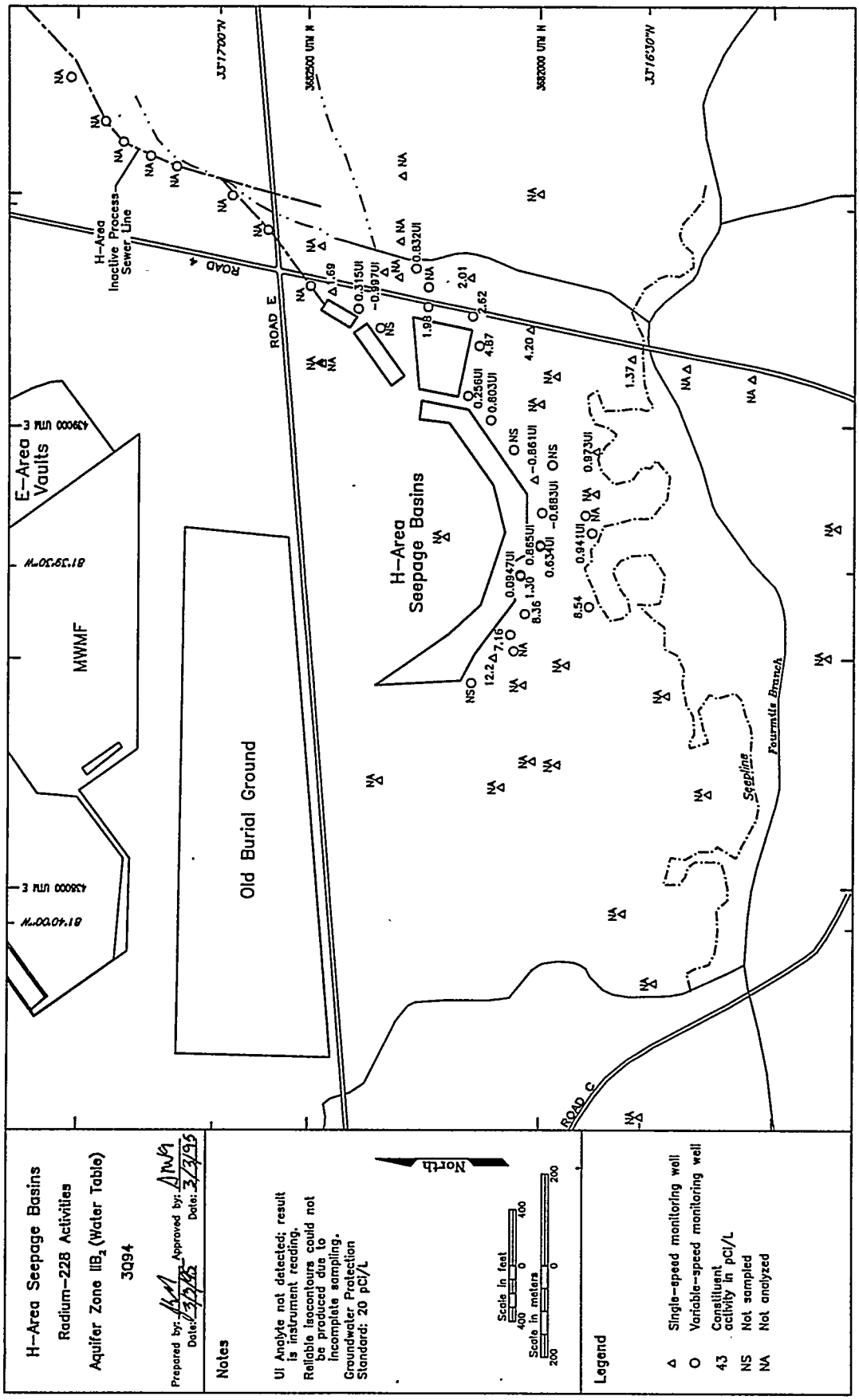


Figure 23. Radium-228 Activities in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Third Quarter 1994

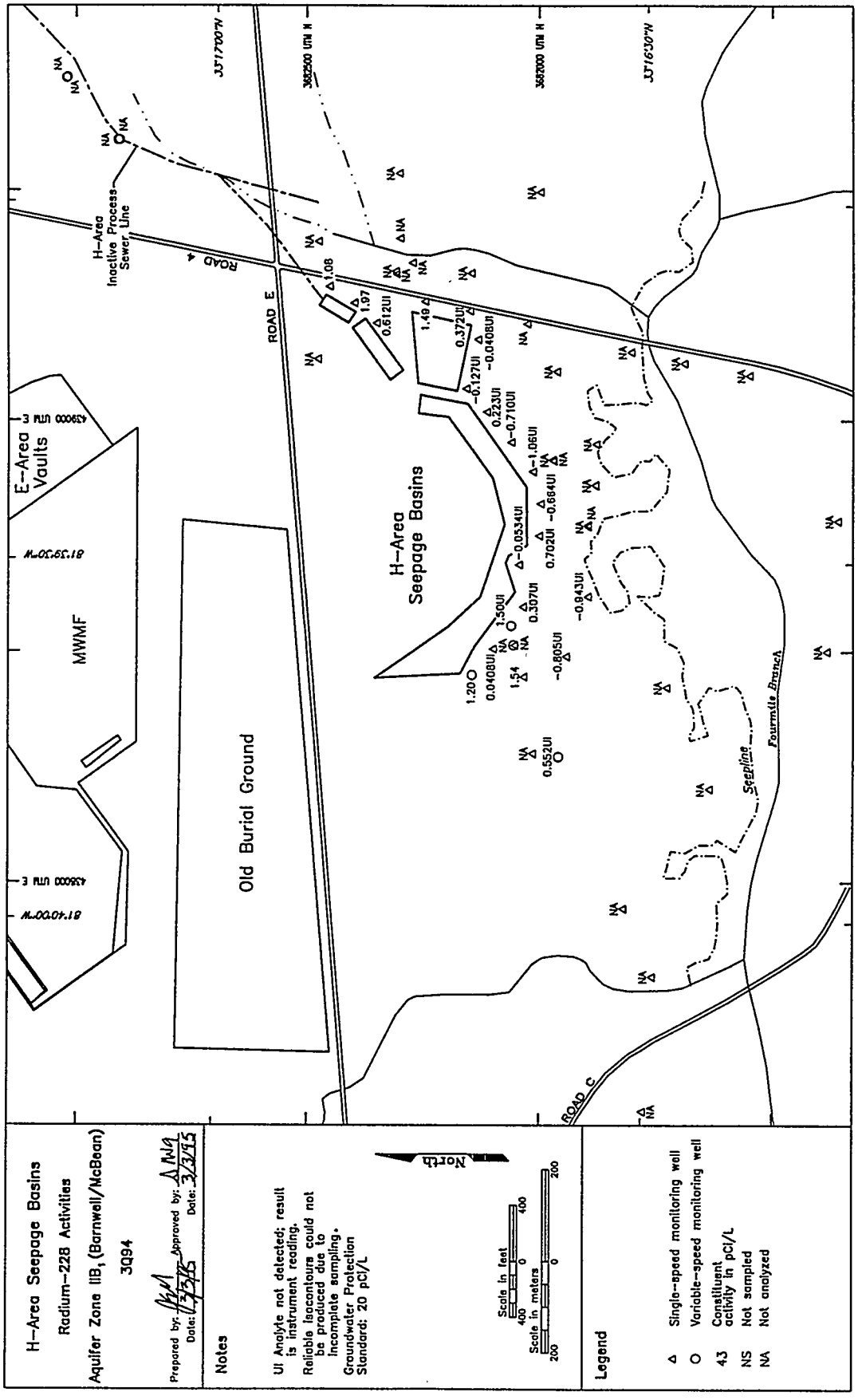


Figure 24. Radium-228 Activities in Aquifer Zone IIB$_1$ (Barnwell/McBean) at the H-Area Seepage Basins, Third Quarter 1994

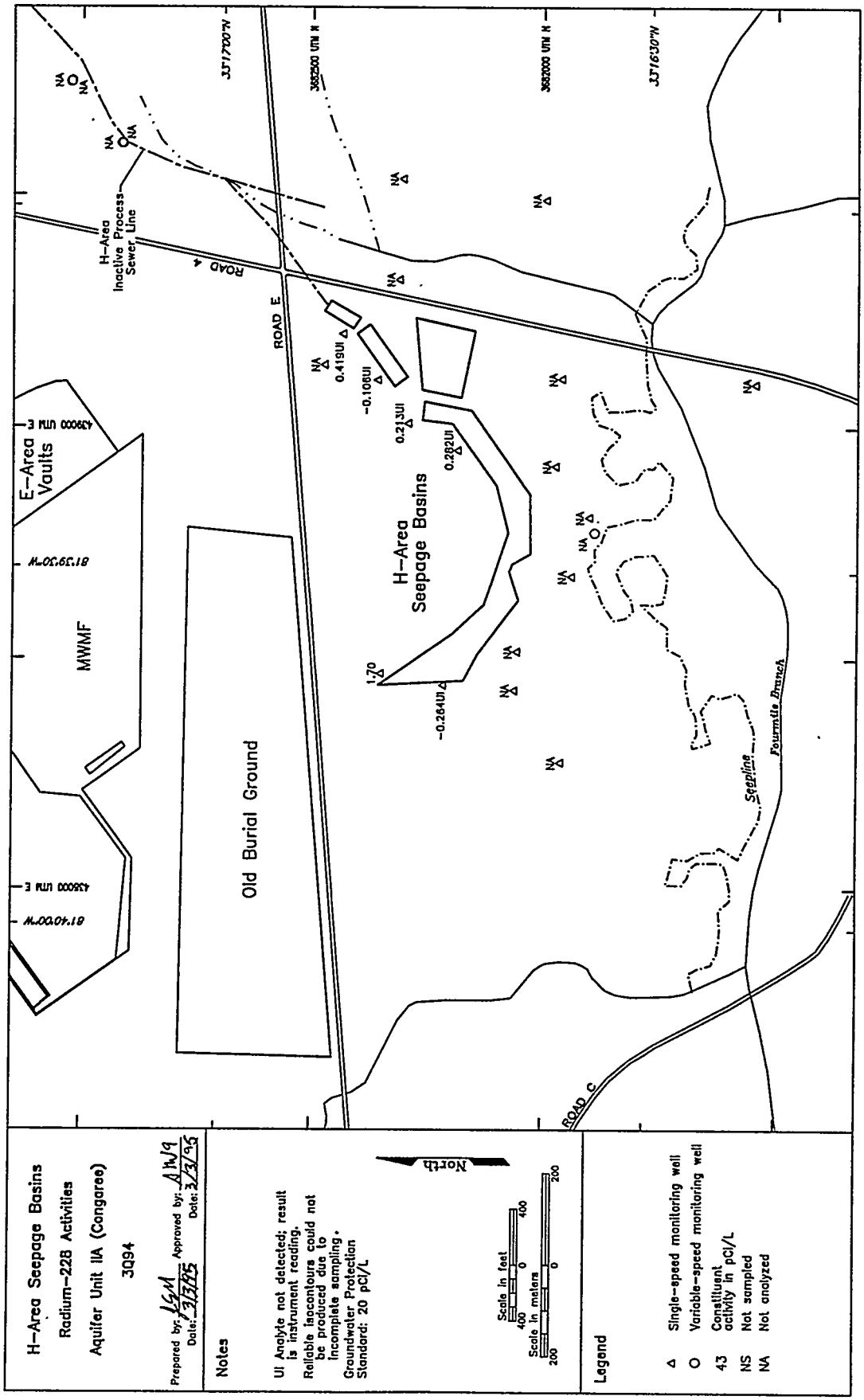


Figure 25. Radium-228 Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Third Quarter 1994

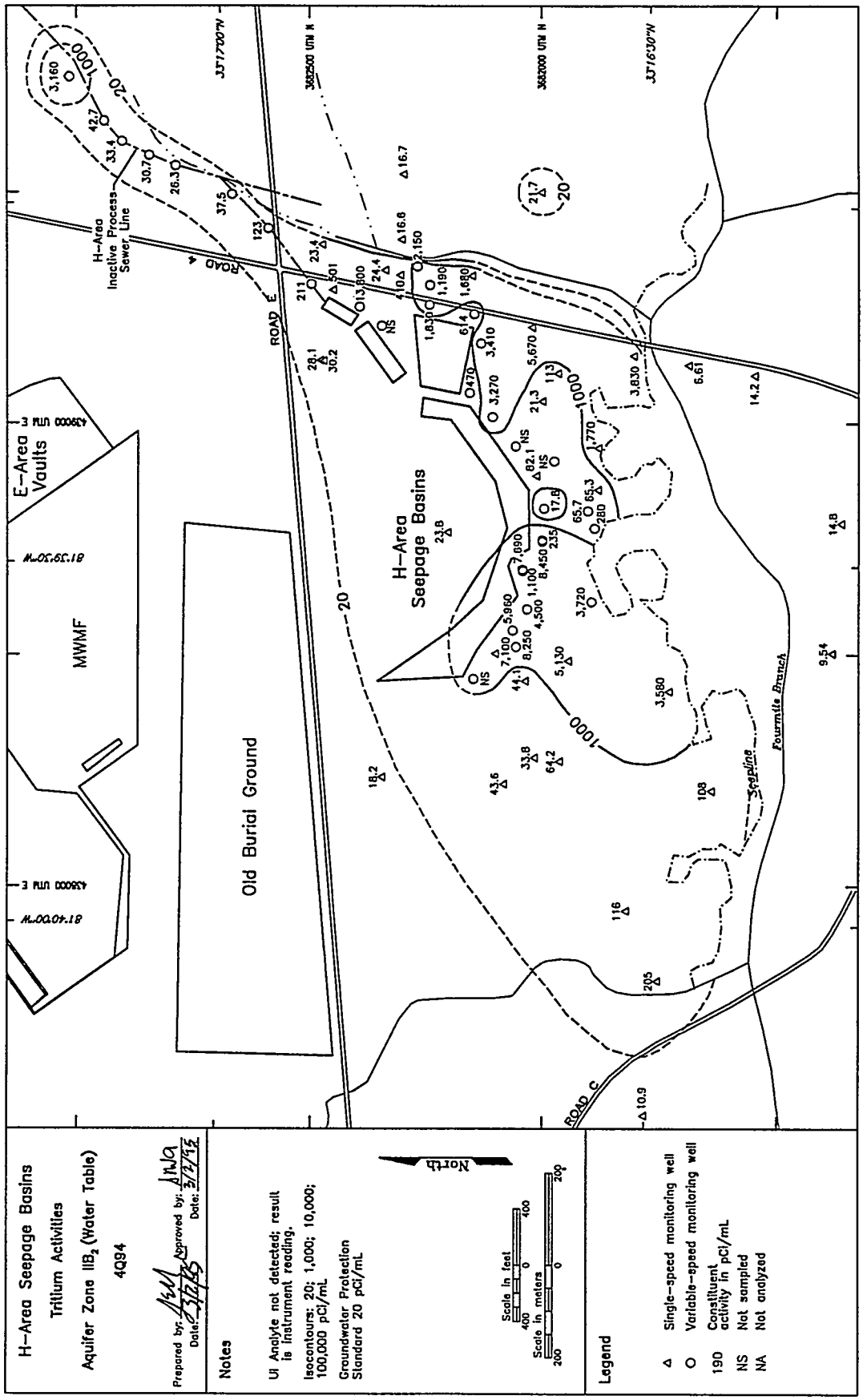


Figure 26. Tritium Activities in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

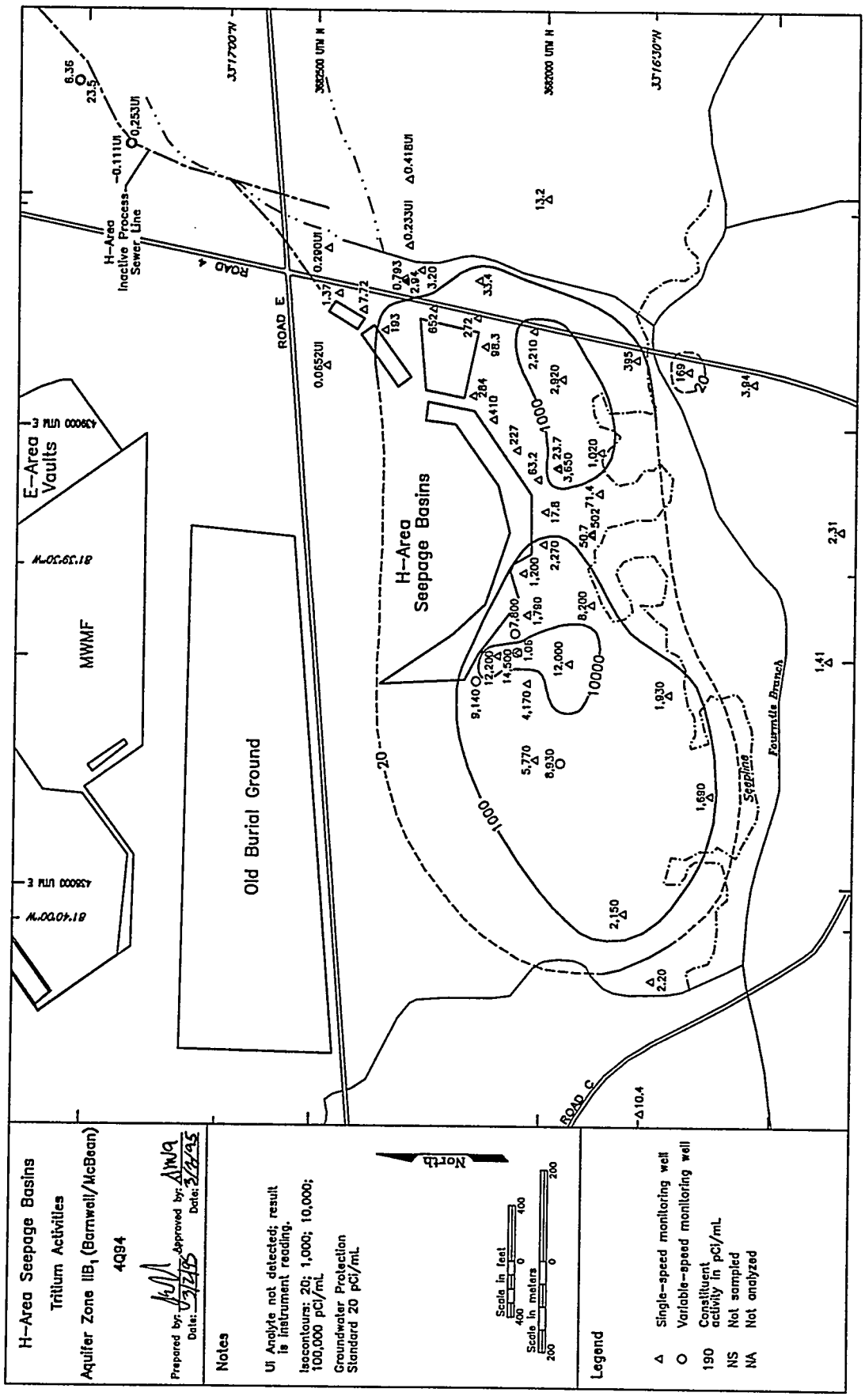


Figure 27. Tritium Activities in Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

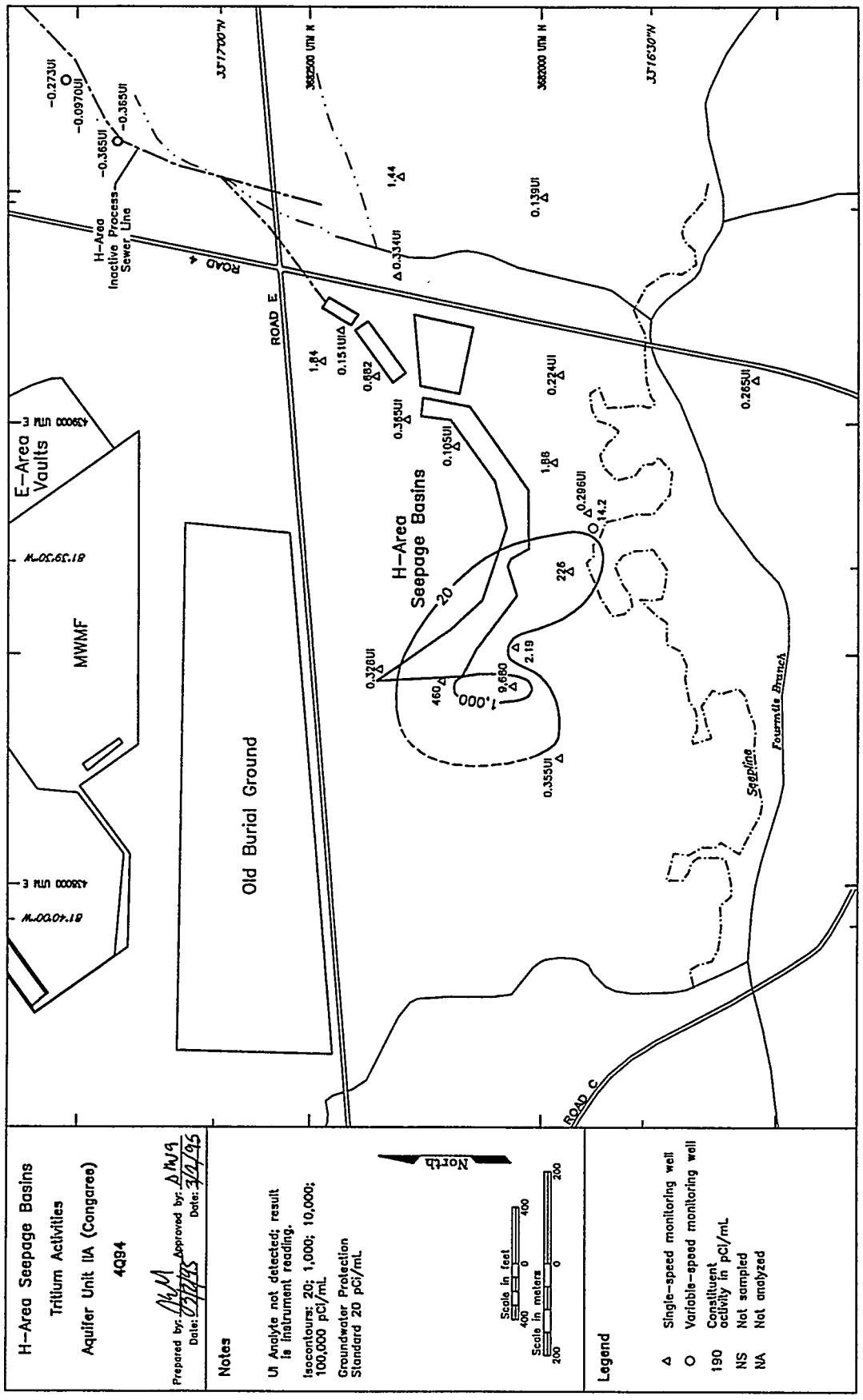


Figure 28. Tritium Activities in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

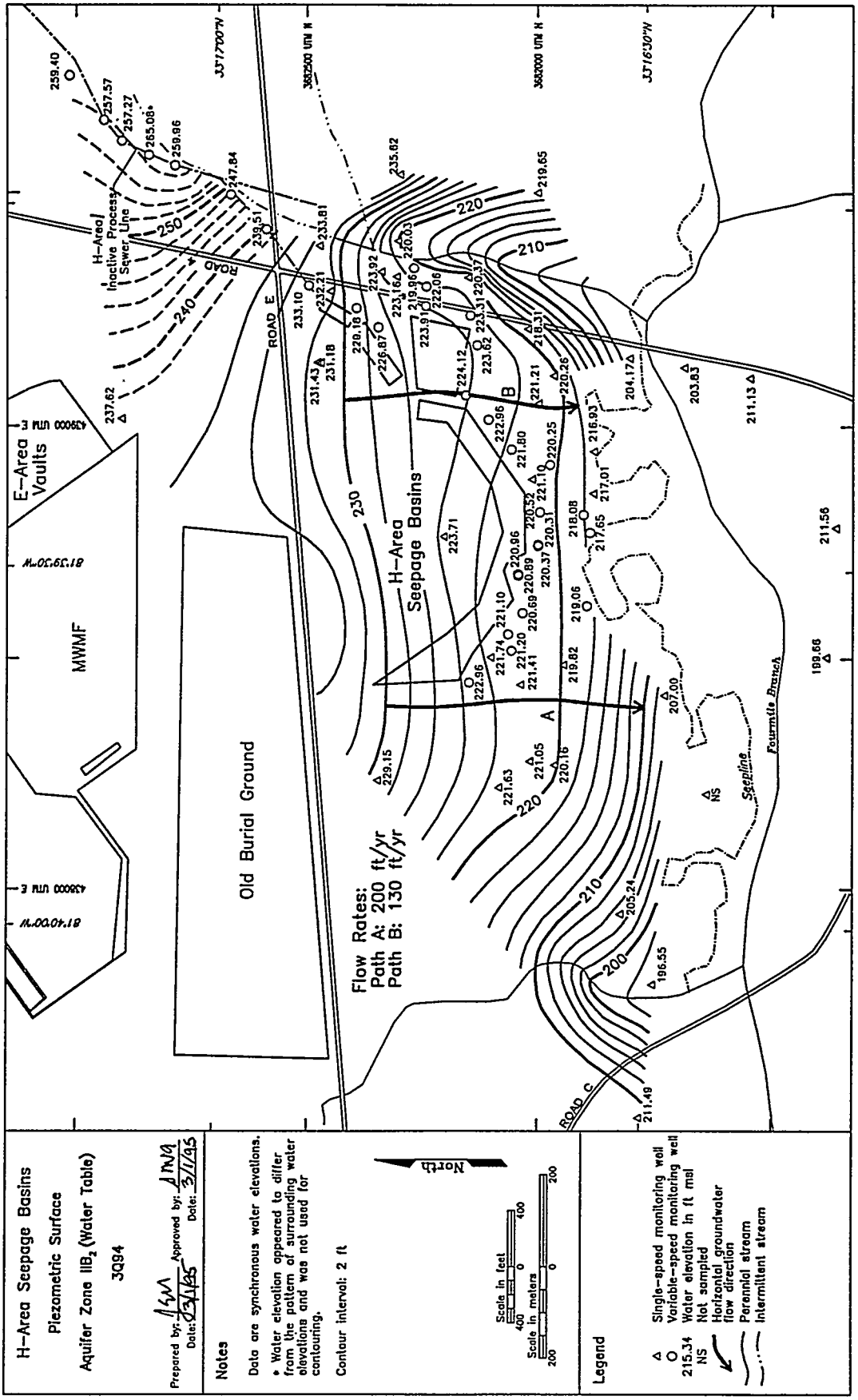


Figure 29. Piezometric Surface Map of Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Third Quarter 1994

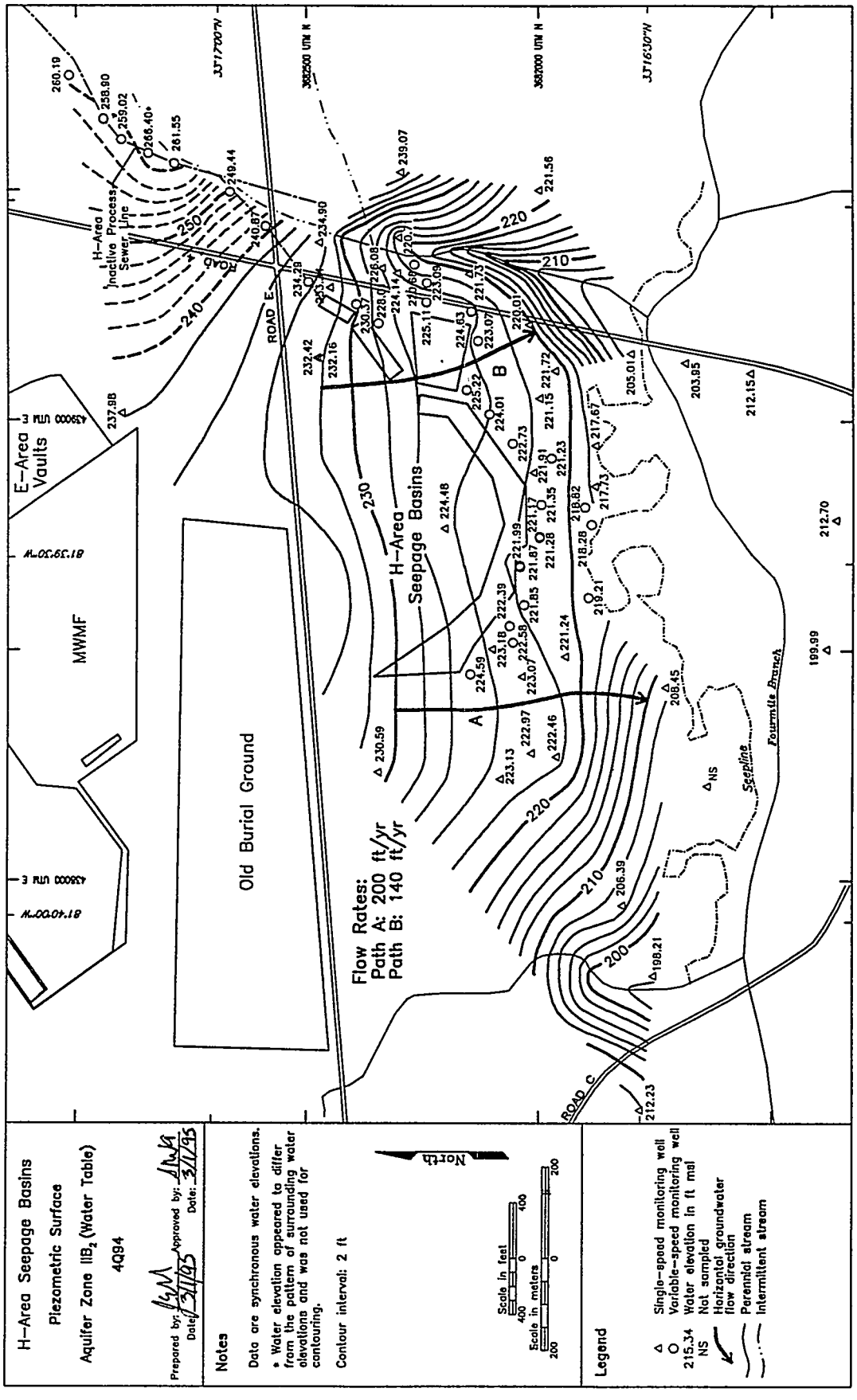


Figure 30. Piezometric Surface Map of Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

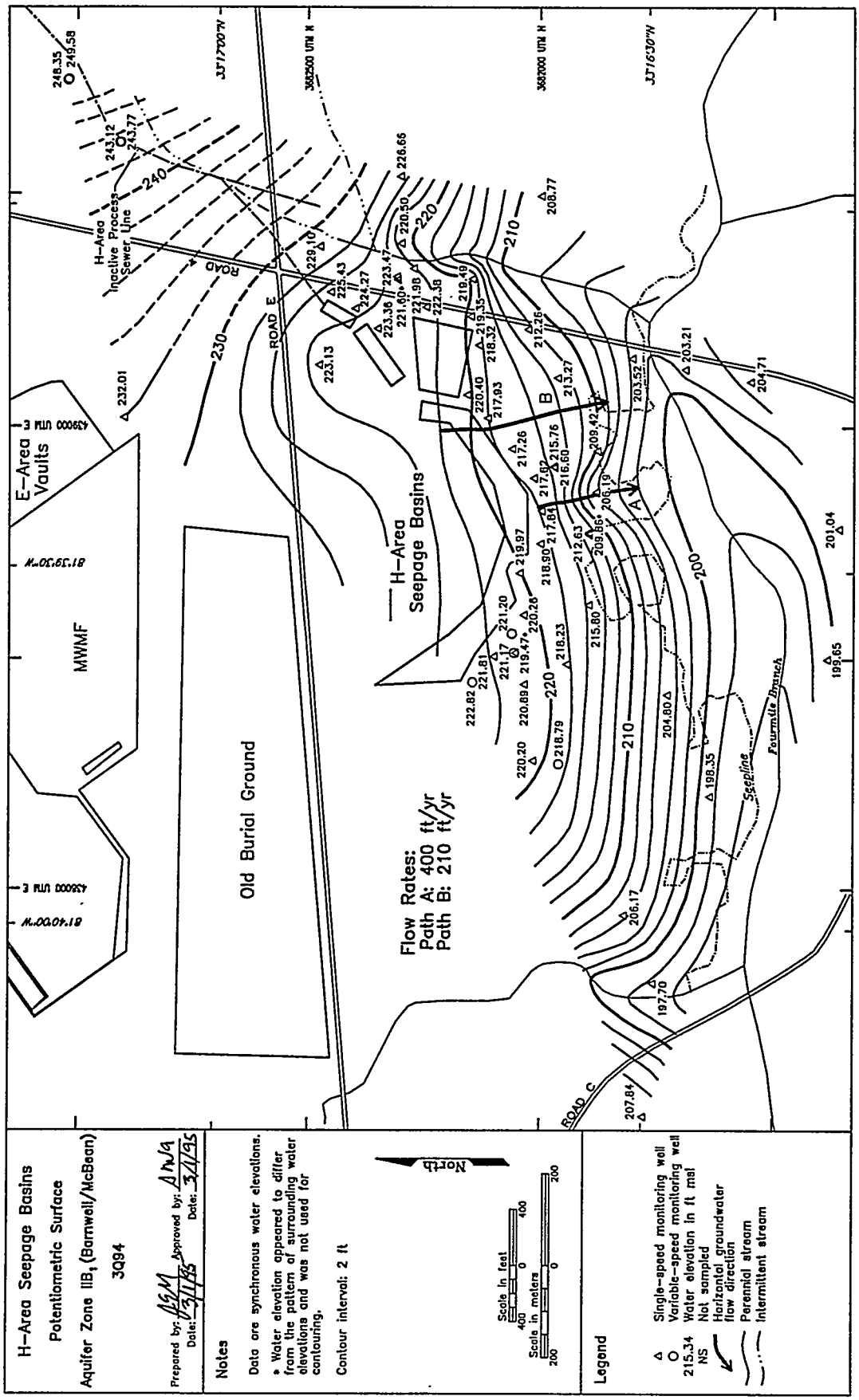


Figure 31. Potentiometric Surface Map of Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Third Quarter 1994

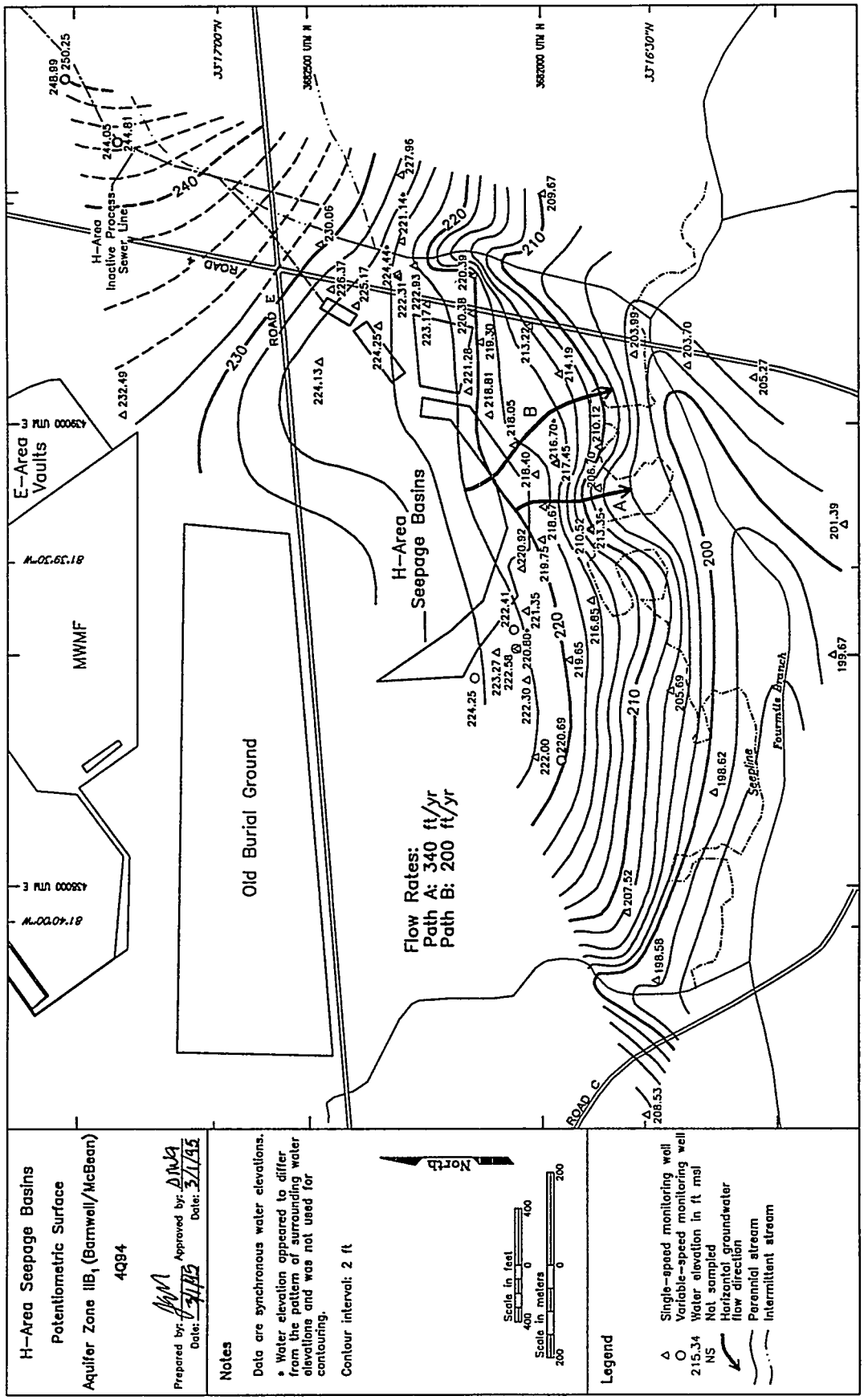


Figure 32. Potentiometric Surface Map of Aquifer Zone IIB_1 (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

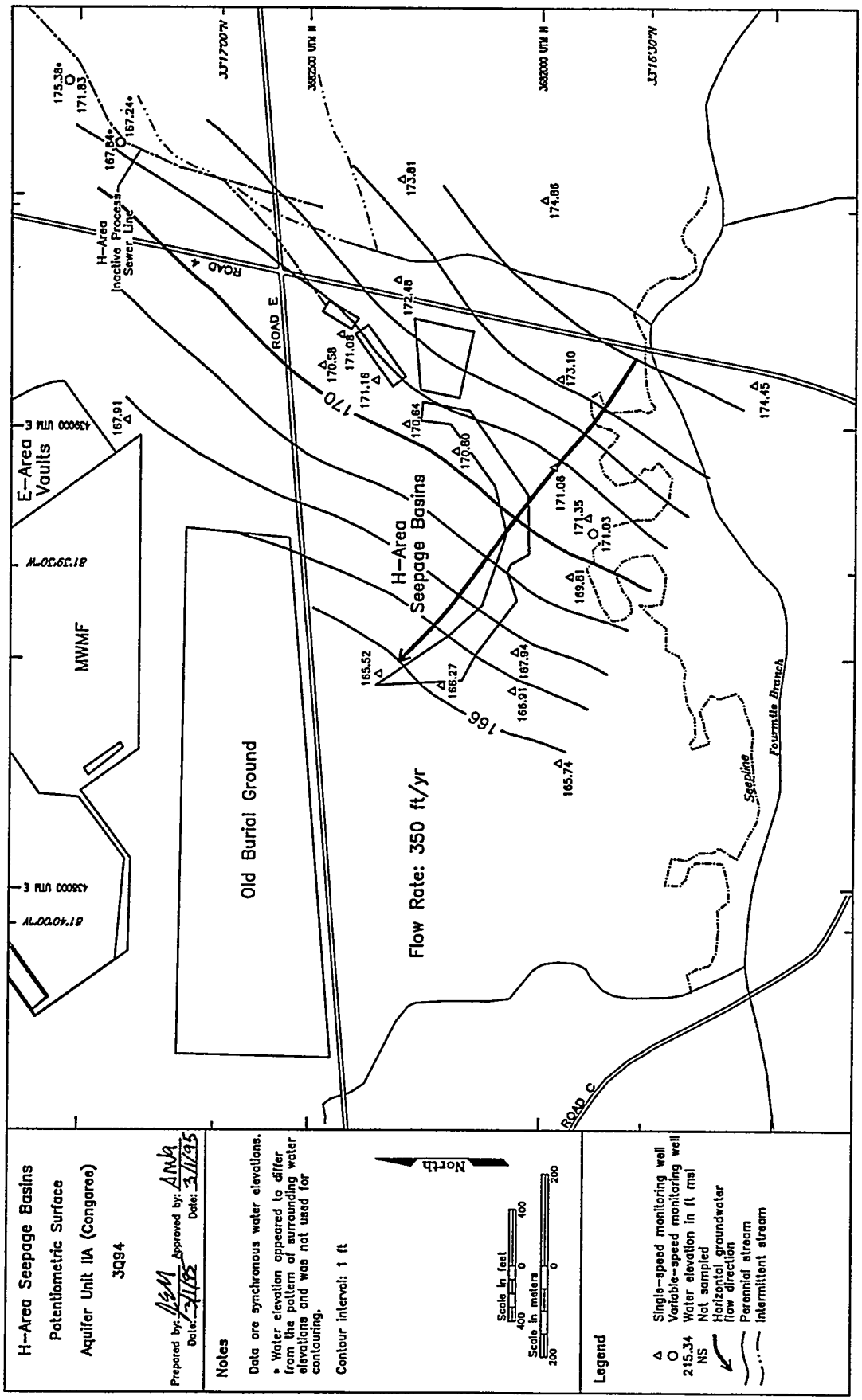


Figure 33. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Third Quarter 1994

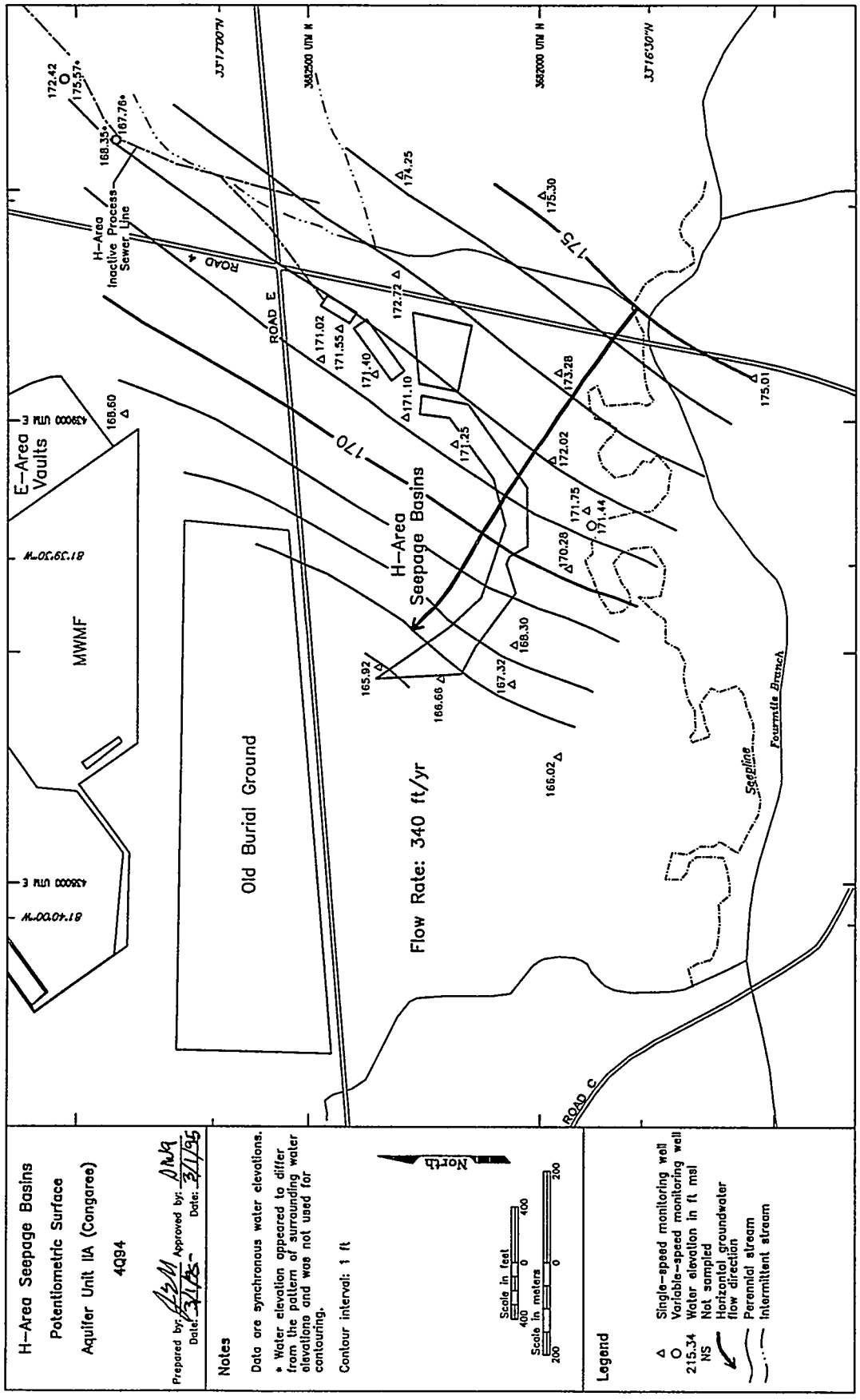


Figure 34. Potentiometric Surface Map of Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

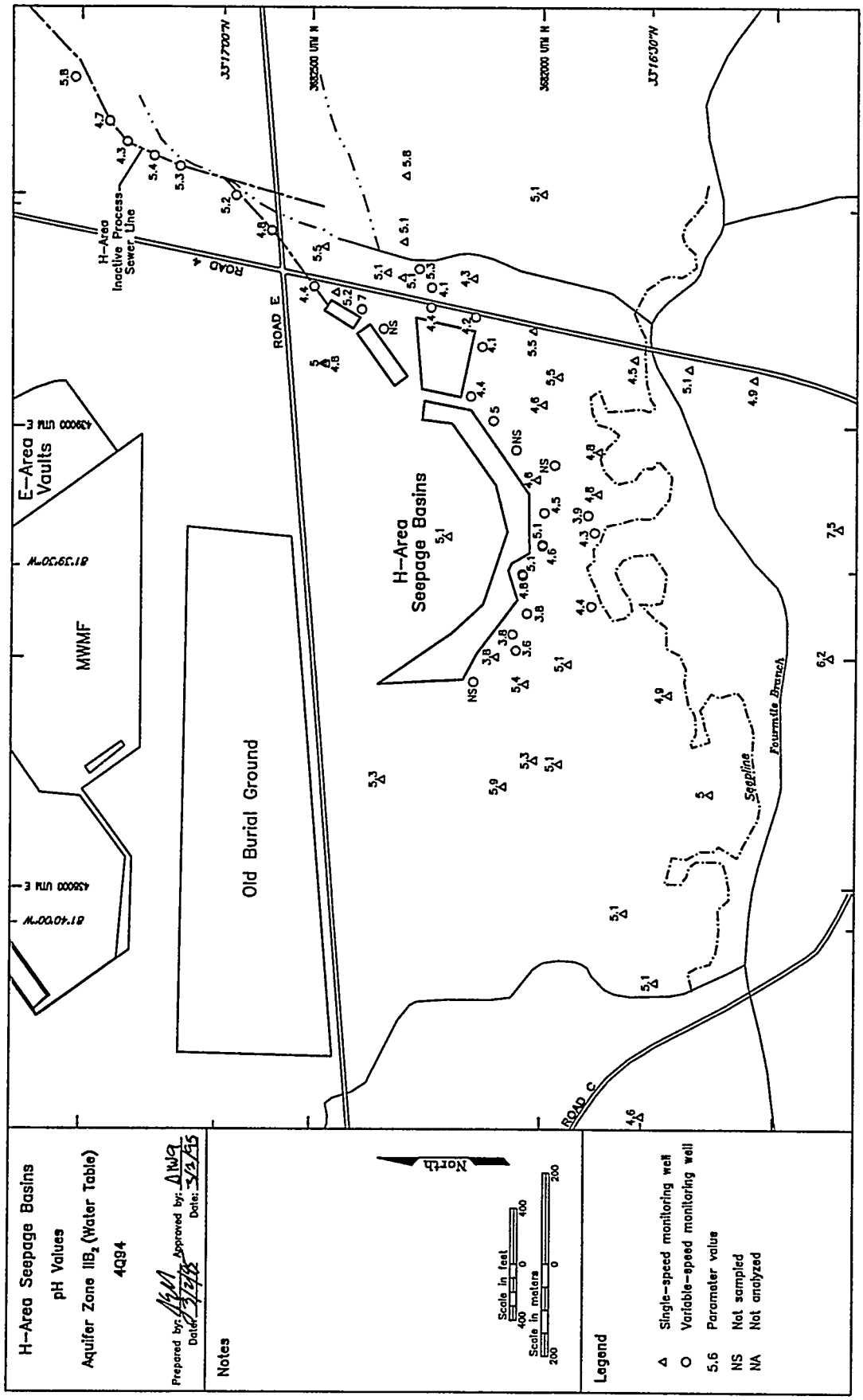


Figure 35. pH Values in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

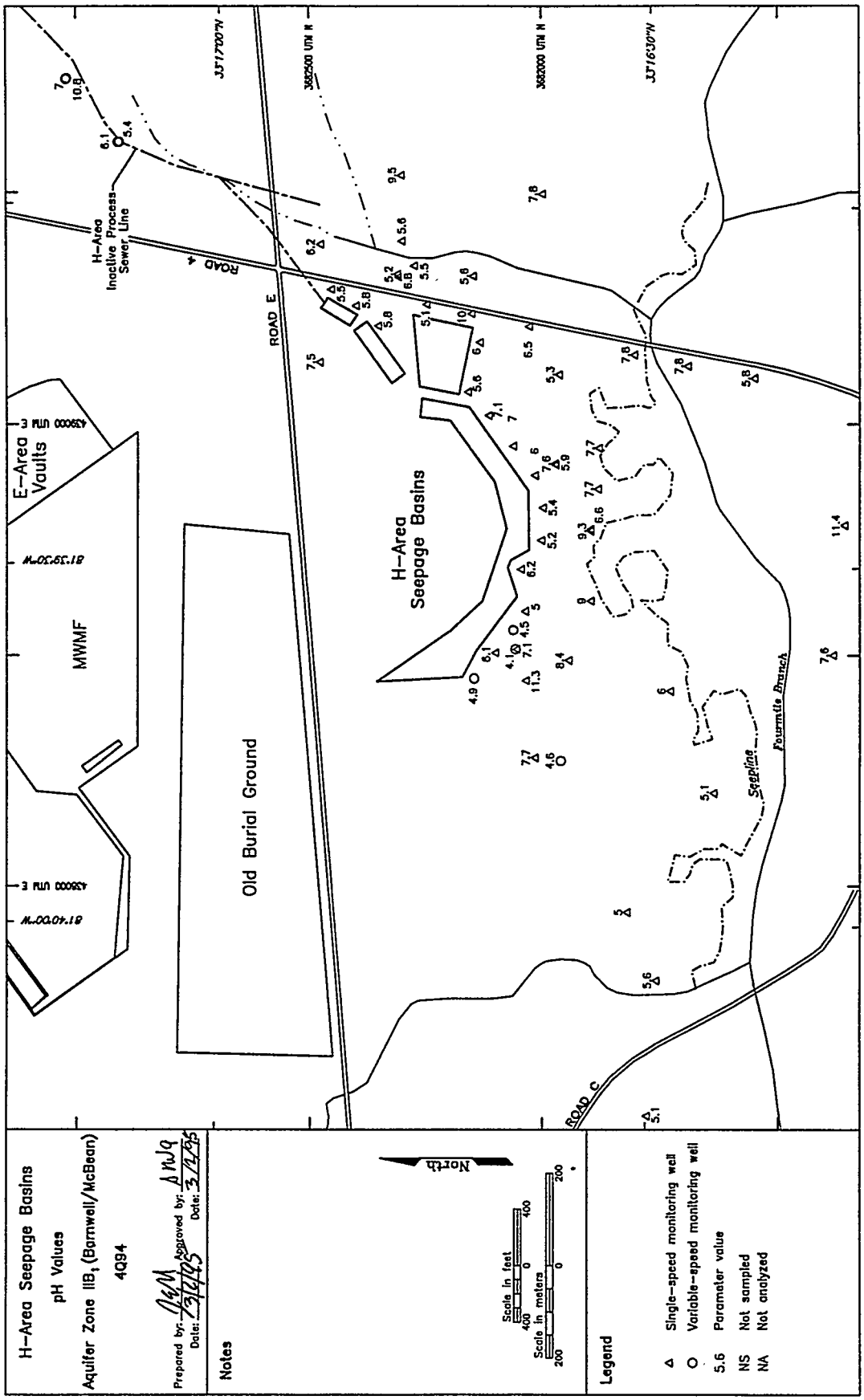


Figure 36. pH Values in Aquifer Zone IIB, (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

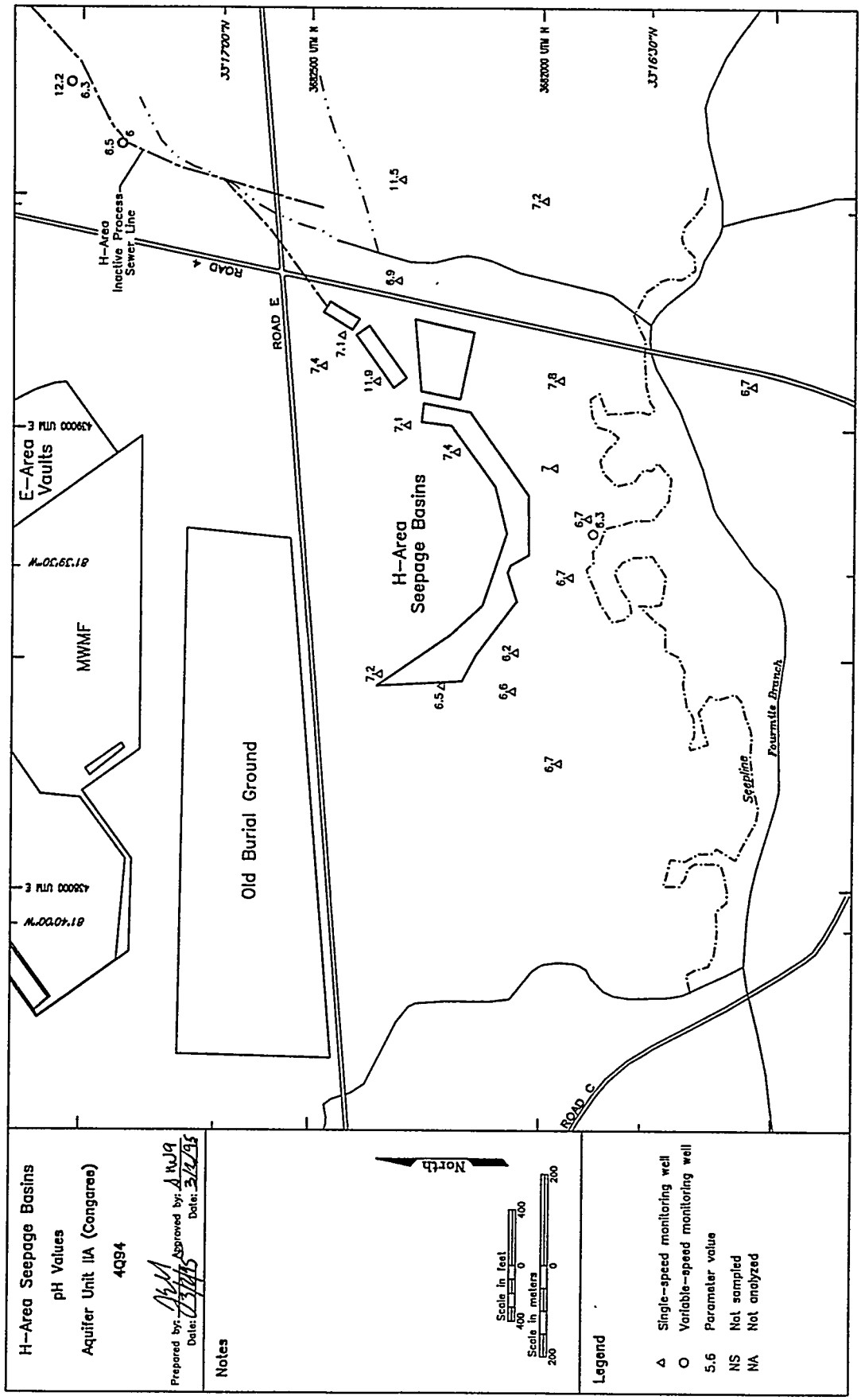


Figure 37. pH Values in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

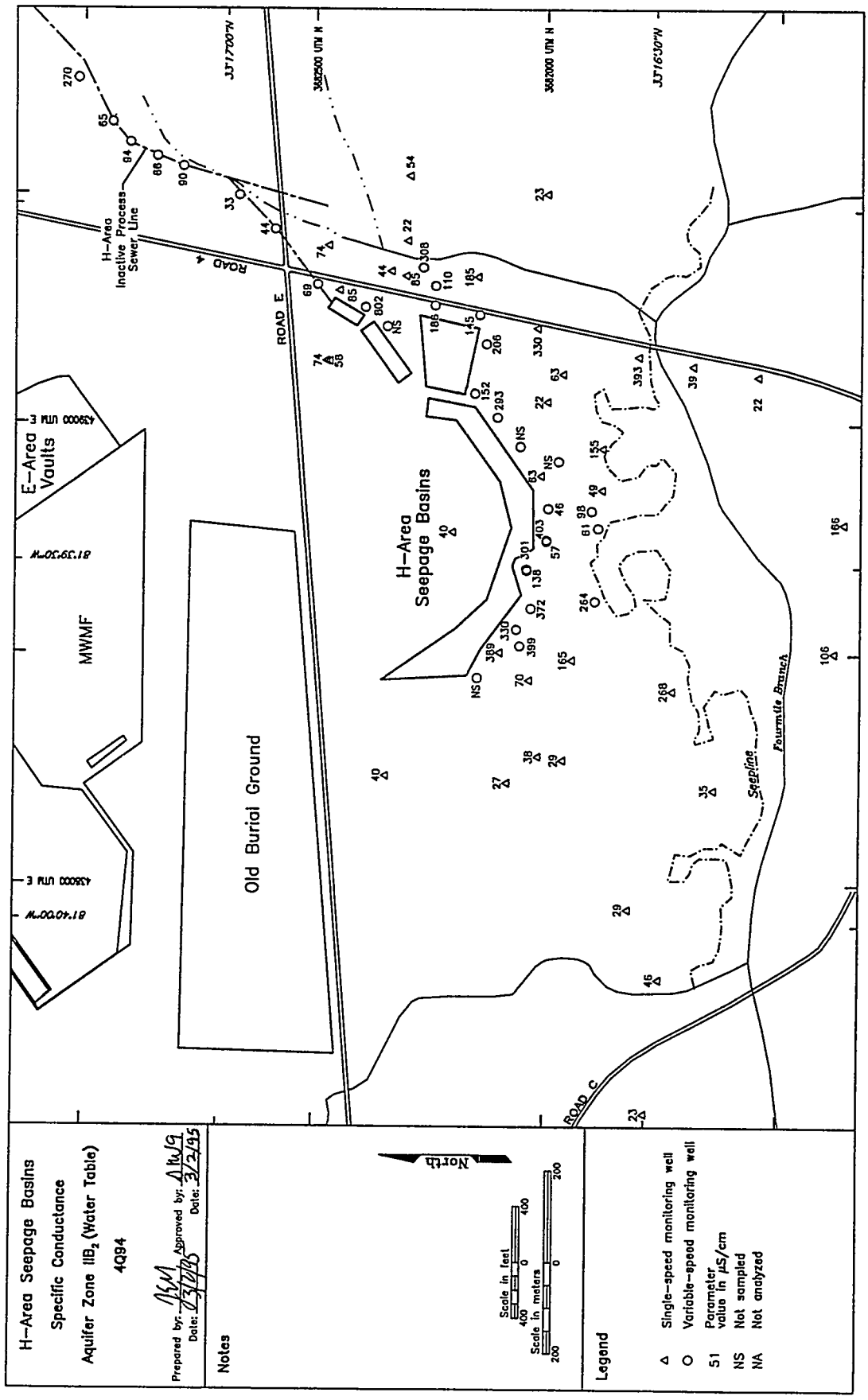


Figure 38. Specific Conductance in Aquifer Zone IIB_2 (Water Table) at the H-Area Seepage Basins, Fourth Quarter 1994

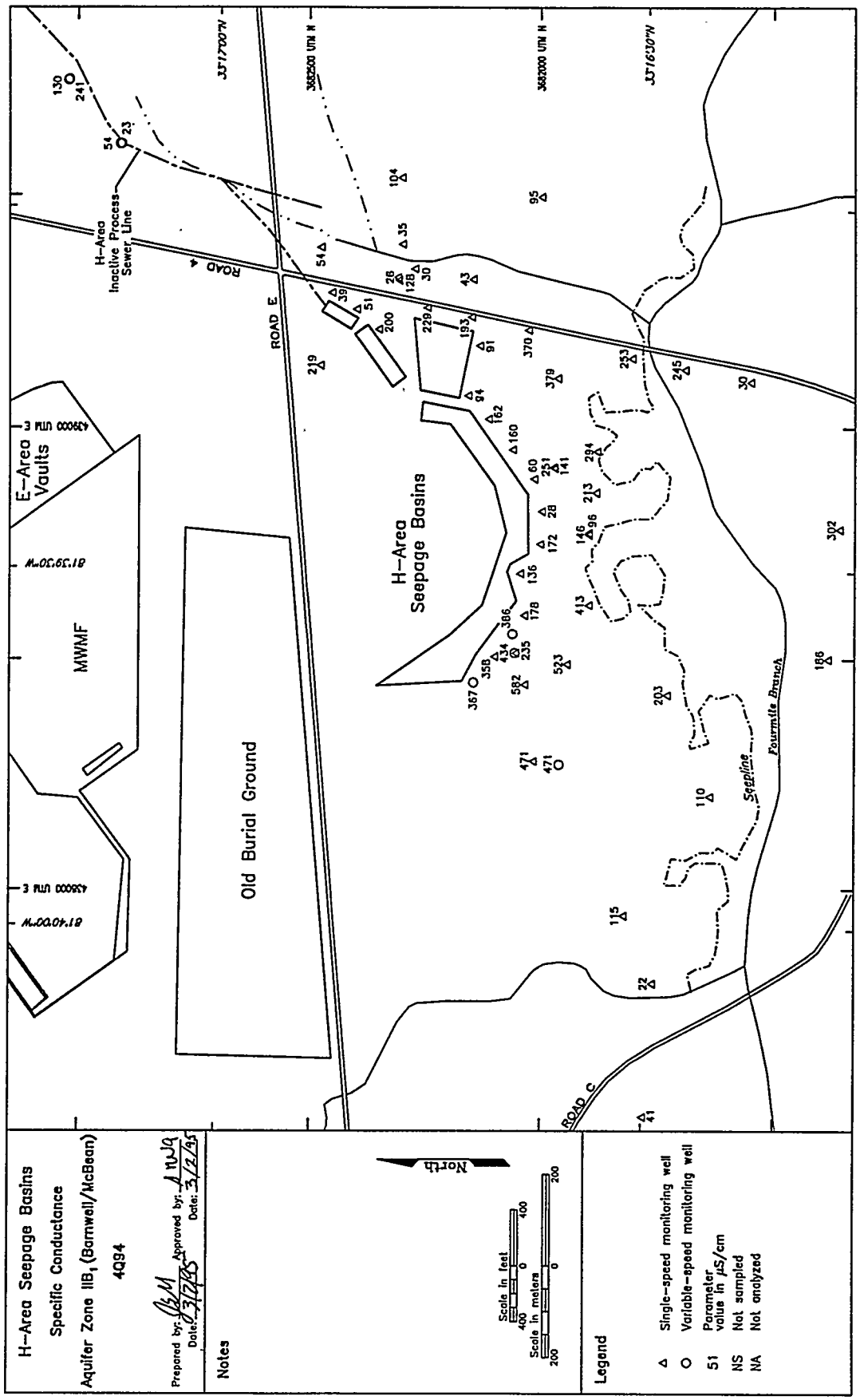


Figure 39. Specific Conductance in Aquifer Zone IIB$_1$ (Barnwell/McBean) at the H-Area Seepage Basins, Fourth Quarter 1994

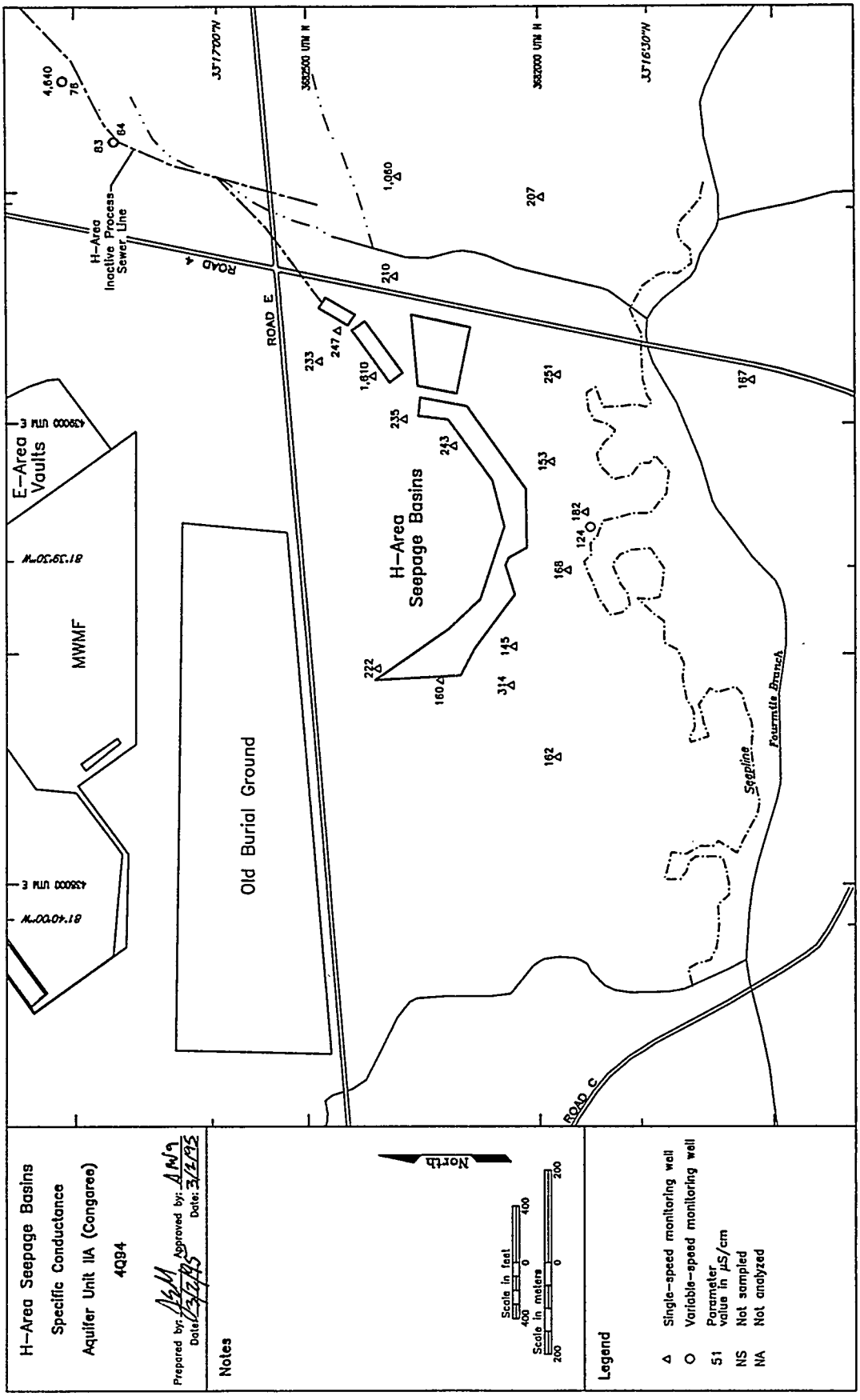


Figure 40. Specific Conductance in Aquifer Unit IIA (Congaree) at the H-Area Seepage Basins, Fourth Quarter 1994

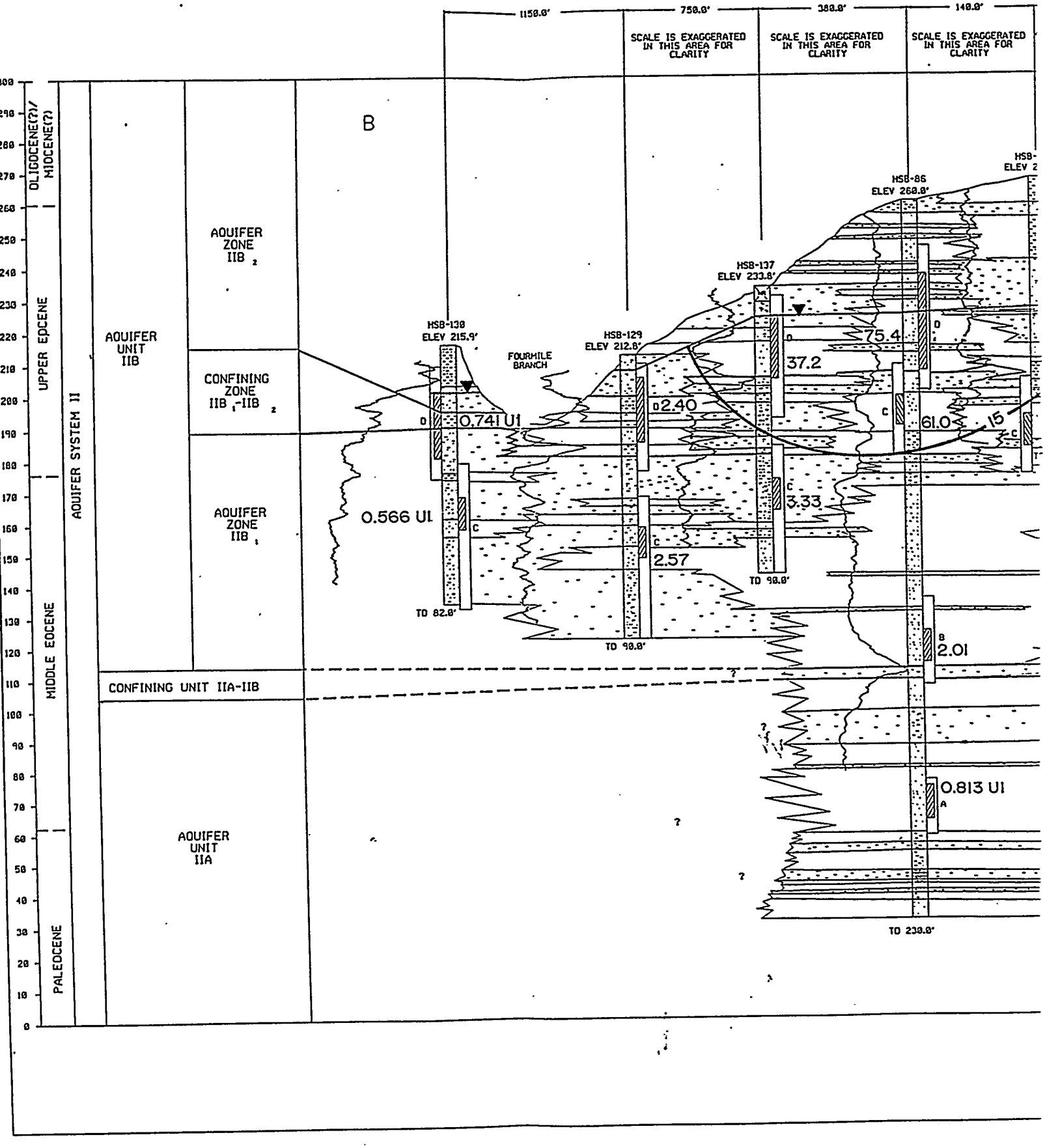
Ram Company PULI-HU
Torrance, CA 90503 #PV119E

Figure 41. Hydrogeologic Cross Section Showing Gross Alpha Activities at the H-Area Seepage Basins, Fourth Quarter 1994

Figure 42. Hydrogeologic Cross Section Showing Mercury Concentrations at the H-Area Seepage Basins, Fourth Quarter 1994

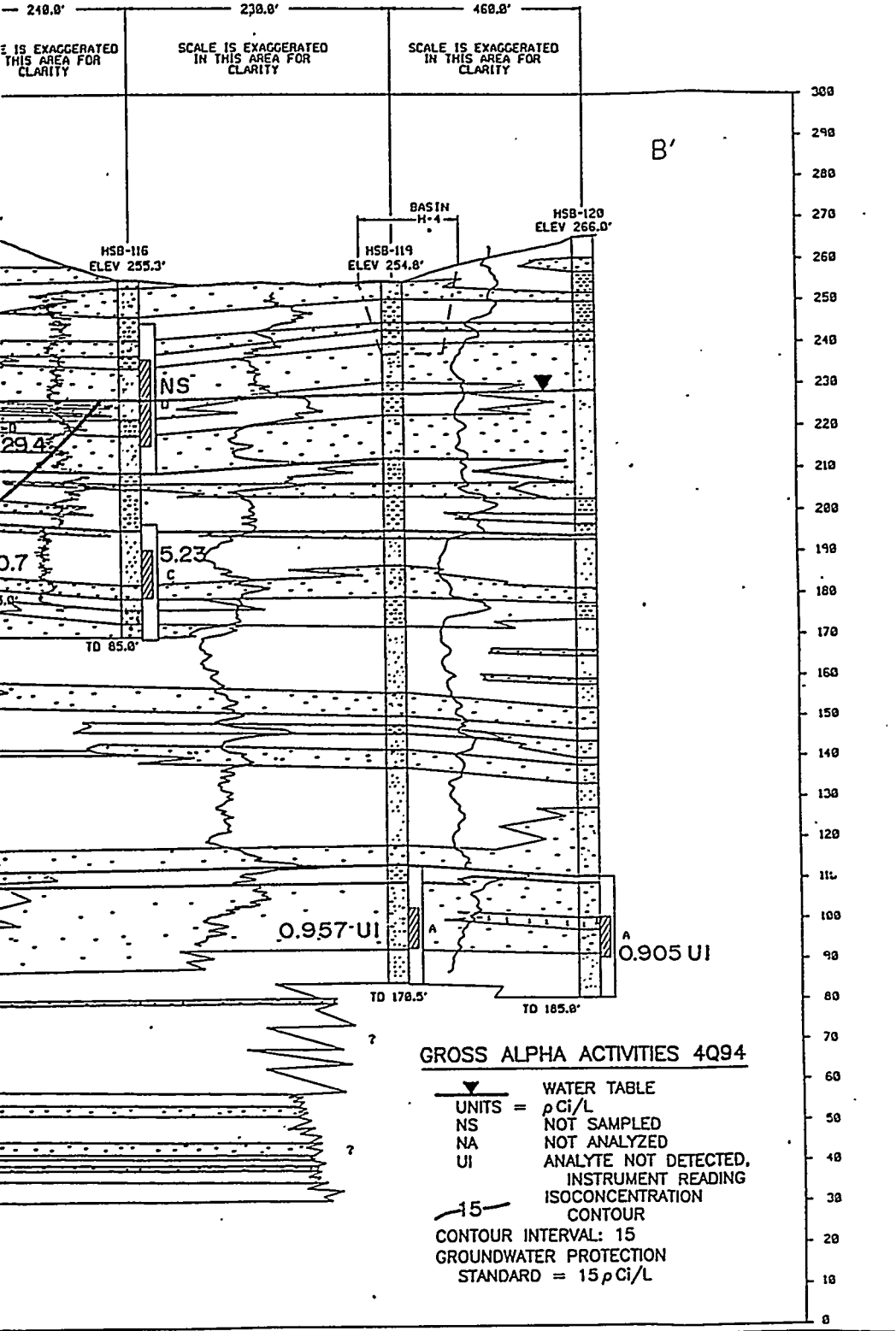
H AREA SEEPAGE BASINS I

CROSS-SECTI



YDROSTRATIGRAPHIC

N B



GROSS ALPHA ACTIVITIES 4Q94

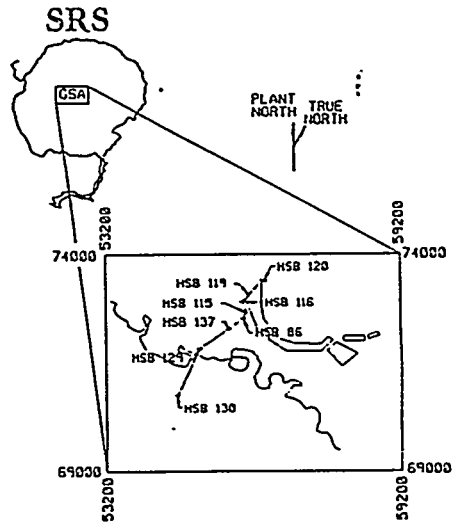
▼ WATER TABLE
UNITS = ρCi/L
NS NOT SAMPLED
NA NOT ANALYZED
UI ANALYTE NOT DETECTED, INSTRUMENT READING
15 ISOCONCENTRATION CONTOUR
CONTOUR INTERVAL: 15
GROUNDWATER PROTECTION STANDARD = 15 ρCi/L

LEGEND:

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

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
• BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDRIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET



DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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ENVIRONMENTAL RESTORATION
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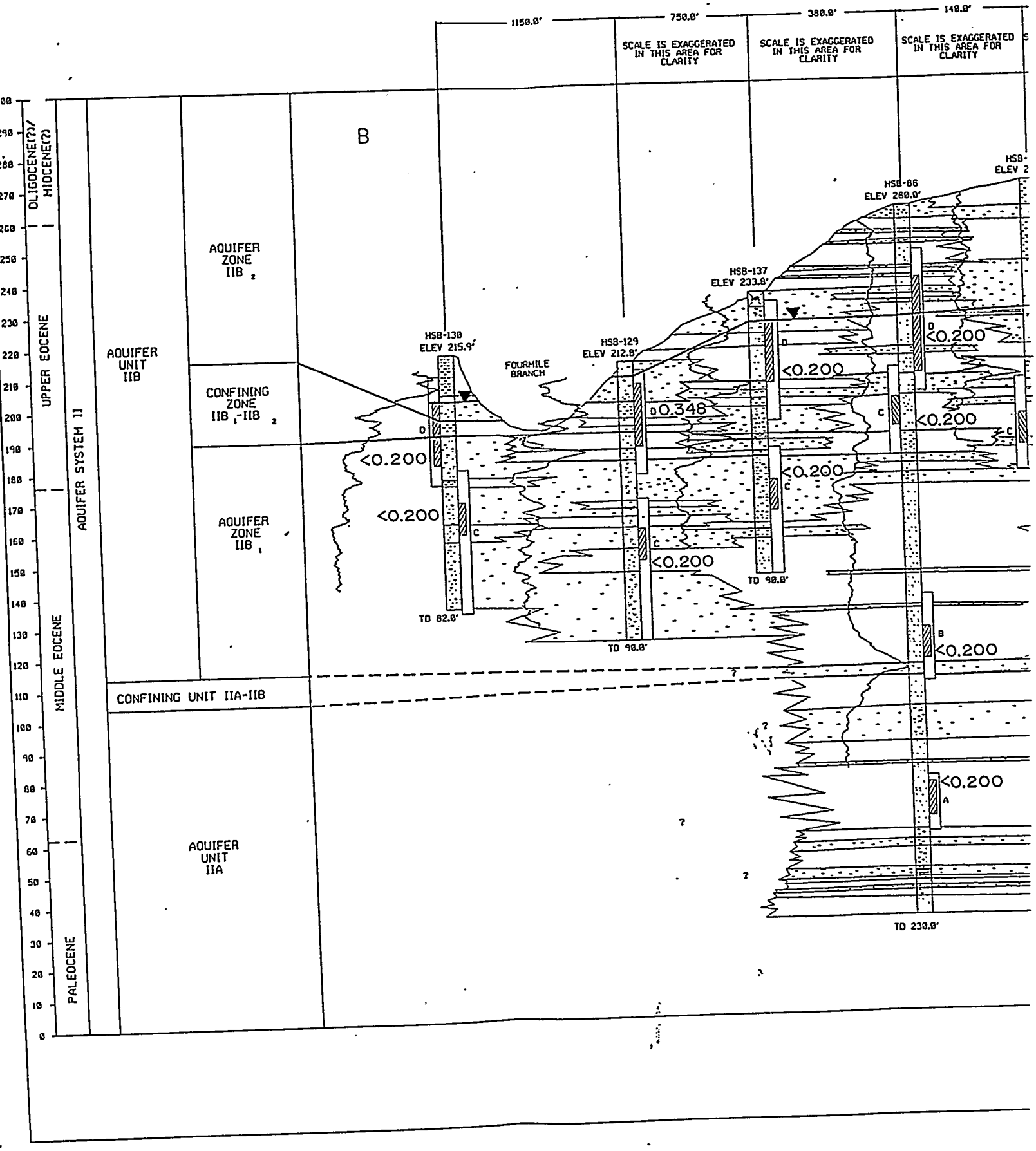
TITLE
H AREA SEEPAGE BASIN HYDROSTRATIGRAPHIC CROSS SECTION B

NO.	DATE	REVISION	DRN	APP
1	1-94	REVISED CROSS SECTION	MKH	TFG
1	1-94	REVISED HSB-119 & LEGEND	MKH	TFG
2	3-94	ADDED CONFINING SYSTEM LINE 3-11	CT	TFG
2	3-94	REVISED CROSS-SECTION	CT	TFG

CREATED BY: TRACY L. MCKLEY	DATE: 3-1-94	APPROVED BY: T.WESTEROOK	DATE: 3-1-94
PREPARED BY: M.K. HARRIS	DATE: 3-1-94	APPROVED BY: T.F. GAUGHAN	DATE: 3-1-94
APPROVED BY: C. M. LEWIS	DATE: 3-1-94	APPROVED BY: NA	DATE: 93
APPROVED BY: C. THOMPSON	DATE: 93	APPROVED BY: NA	DATE: 93

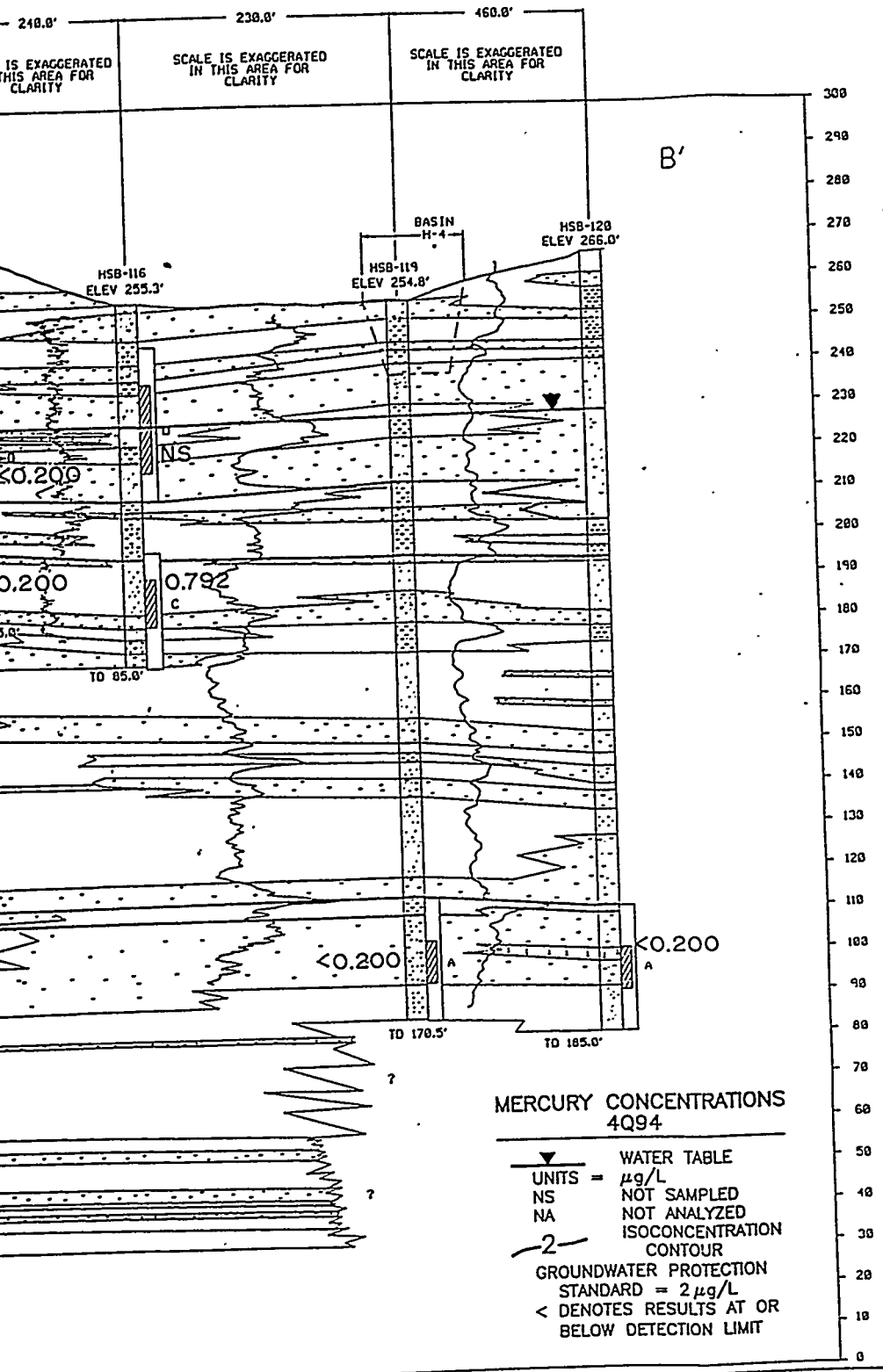
H AREA SEEPAGE BASINS F

CROSS-SECTI



YDROSTRATIGRAPHIC

N B



LEGEND:

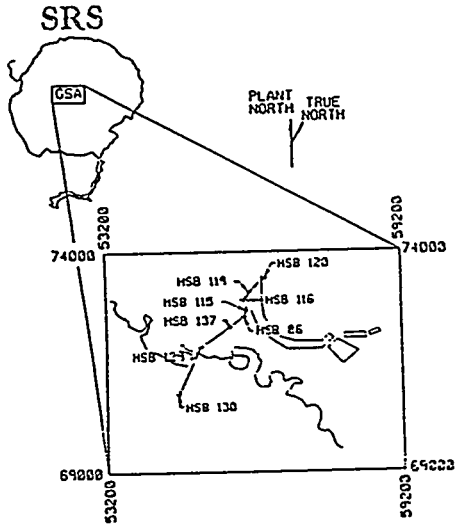
- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY

SAND PACK INTERVAL- INCLUDES BENTONITE SEAL
SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
• BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDRIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET

SRS



MERCURY CONCENTRATIONS
4Q94

- WATER TABLE
- UNITS = µg/L
- NS NOT SAMPLED
- NA NOT ANALYZED
- —2— ISOCONCENTRATION CONTOUR
- GROUNDWATER PROTECTION STANDARD = 2 µg/L
- < DENOTES RESULTS AT OR BELOW DETECTION LIMIT

DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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TITLE
H AREA SEEPAGE BASIN
HYDROSTRATIGRAPHIC
CROSS SECTION B

NO.	DATE	ISSUE	MSLB	BWT
1	1-3-94	REVISED CROSS-SECTION	MSB	BLH
1	1-3-94	REVISED HSB-119 & LEGEND	MSB	WT
2	1-3-94	ROOFED CONFINING SYSTEM LINE 1-11	CT	WT
2	1-3-94	REVISED CROSS-SECTION	CT	WT

CREATED BY TRACY L. MCKLEY	DATE 3-1-94	APPROVED BY T.WESTEROOK	DATE 3-1-94
DRAFTED BY M.K. HARRIS	DATE 3-1-94	APPROVED BY T.F. CAUGHAN	DATE 3-1-94
APPROVED BY C. M. LEWIS	DATE 3-1-94	APPROVED BY NA	DATE 93
APPROVED BY C. THOMPSON	DATE 93	APPROVED BY NA	DATE 93

MARCH 94 4Q94

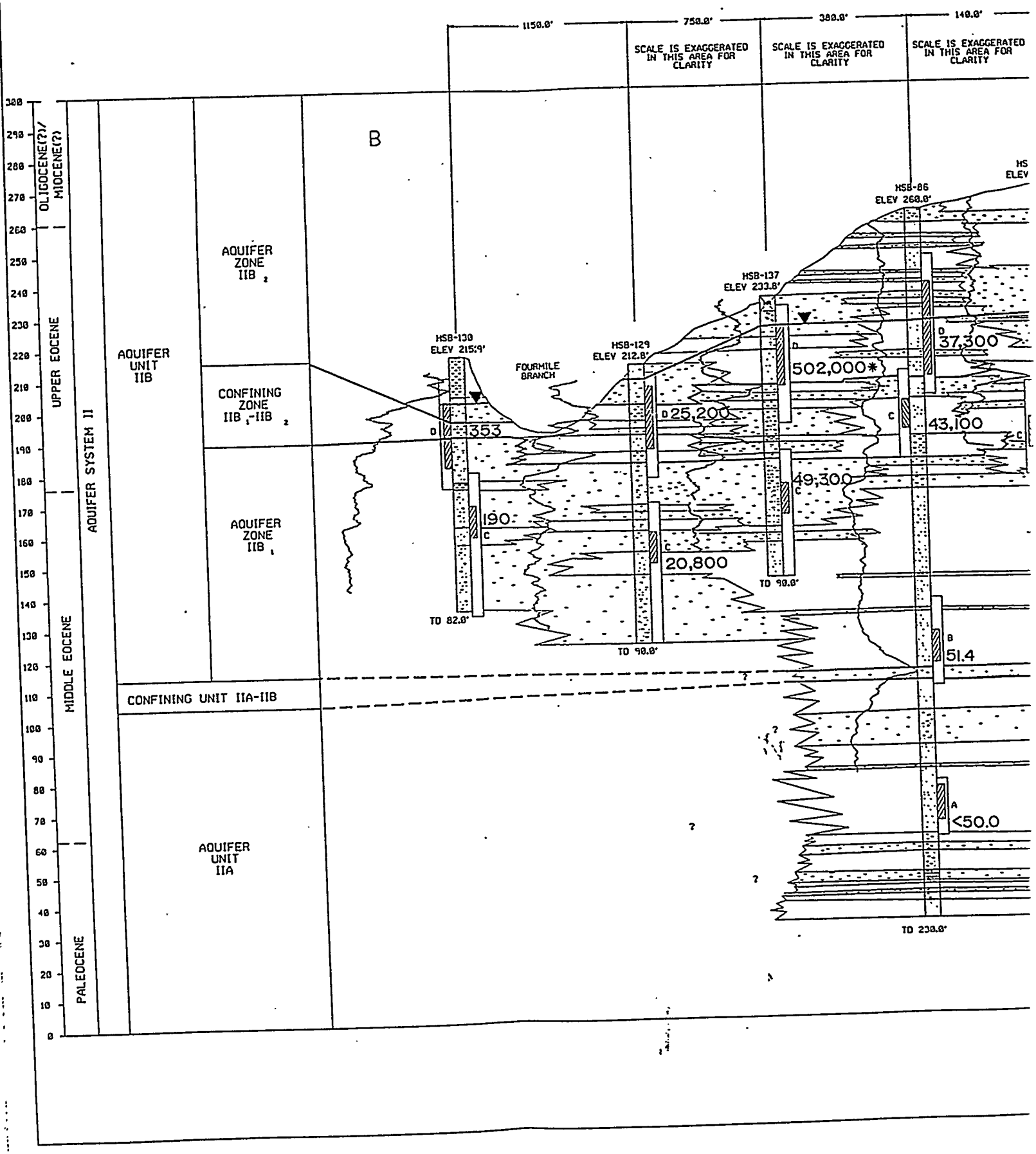
K&M Company POLY-MJ
Torrance, CA 90503 #PV119E

Figure 43. Hydrogeologic Cross Section Showing Nitrate Concentrations at the H-Area Seepage Basins, Fourth Quarter 1994

Figure 44. Hydrogeologic Cross Section Showing Nonvolatile Beta Activities at the H-Area Seepage Basins, Fourth Quarter 1994

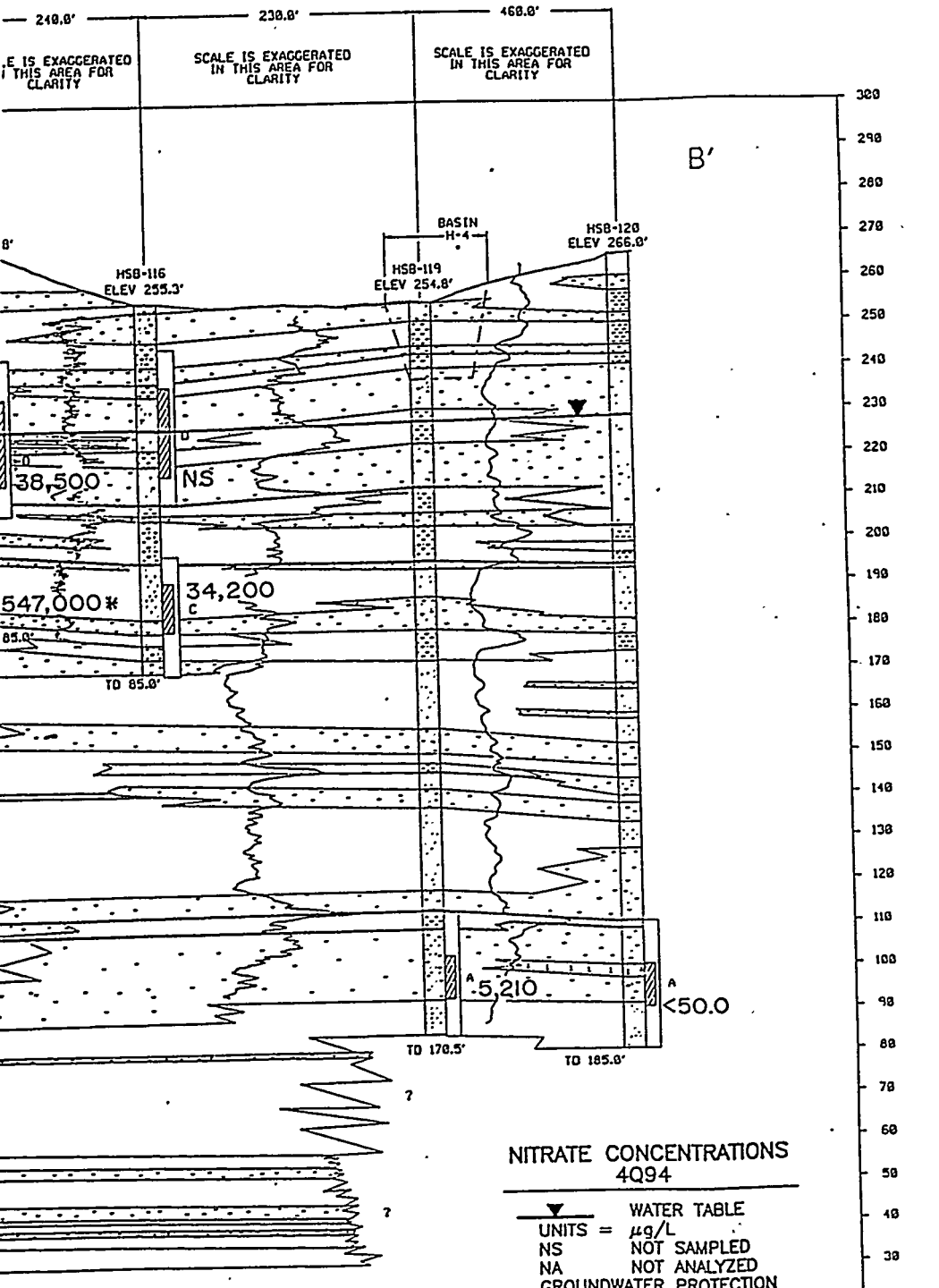
H AREA SEEPAGE BASINS

CROSS-SECT



YDROSTRATIGRAPHIC

)N B



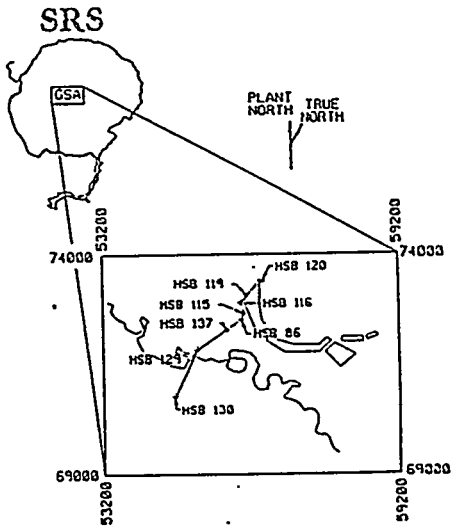
LEGEND:

- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY

SAND PACK INTERVAL - INCLUDES BENTONITE SEAL
SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
* BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDRIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET



* Results do not follow historical trends; reliable [illegible] could not be [illegible]

NITRATE CONCENTRATIONS
4Q94

▼ WATER TABLE
UNITS = µg/L
NS NOT SAMPLED
NA NOT ANALYZED
GROUNDWATER PROTECTION STANDARD = 10,000 µg/L
< DENOTES RESULTS AT OR BELOW DETECTION LIMIT

DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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ENVIRONMENTAL RESTORATION
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TITLE
H AREA SEEPAGE BASIN HYDROSTRATIGRAPHIC CROSS SECTION B

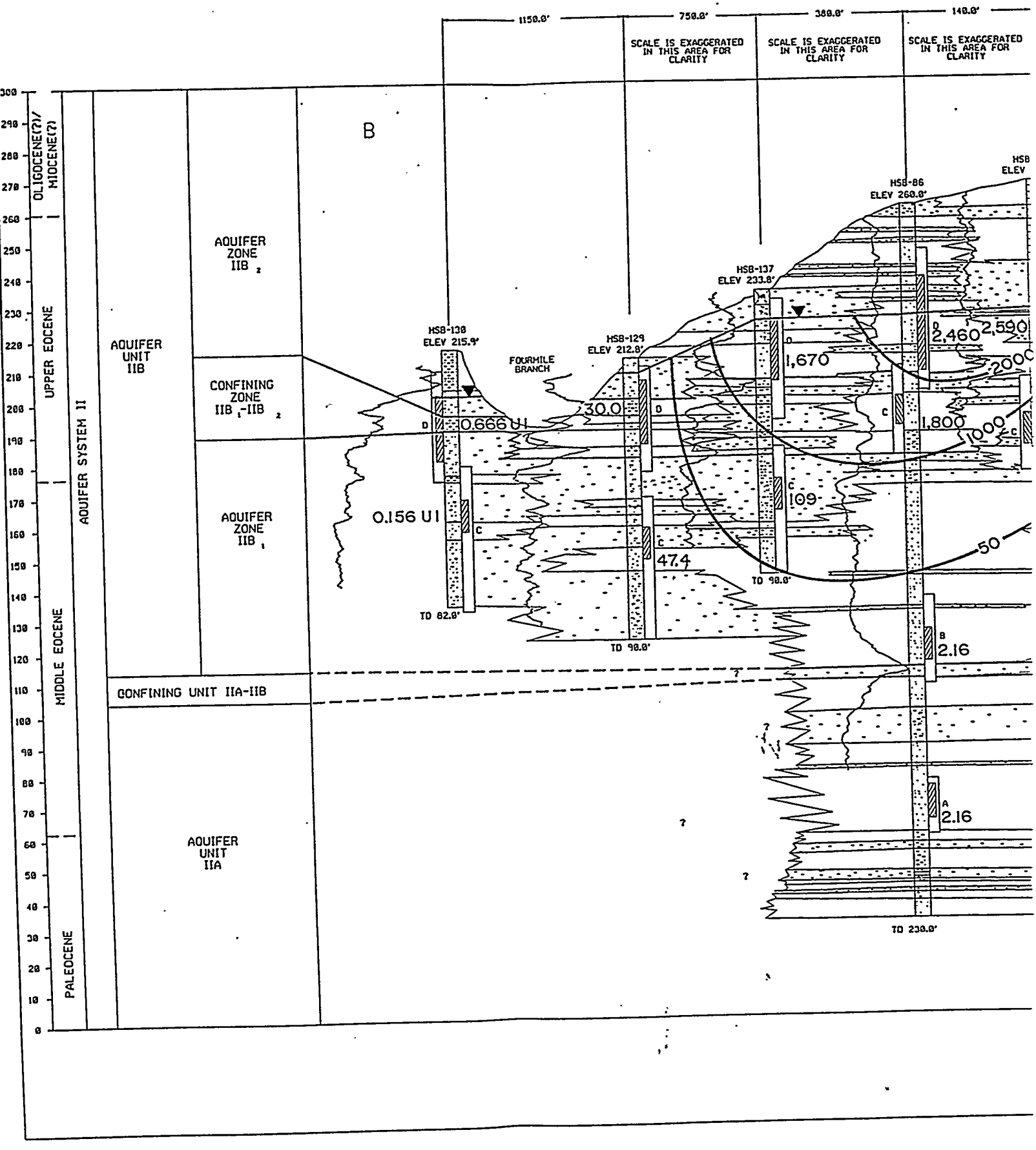
NO.	DATE	REVISION	INIT	INIT
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1	3/94	REVISED HSB-119 & LEGEND	MS	SV
2	3/94	ADDED CONFINING SYSTEM LINE E-11	CT	SV
2	6/94	REVISED CROSS-SECTION	CT	SV

PREPARED BY: TRACY L. MCKLEY	DATE: 3-1-94	APPROVED BY: T.WESTBROOK	DATE: 3-1-94
PREPARED BY: M.K. HARRIS	DATE: 3-1-94	APPROVED BY: T.F. GAUGHAN	DATE: 3-1-94
APPROVED BY: C.M. LEWIS	DATE: 3-1-94	APPROVED BY: NA	DATE: 93
APPROVED BY: C. THOMPSON	DATE: 93	APPROVED BY: NA	DATE: 93

NITRATE 4Q94

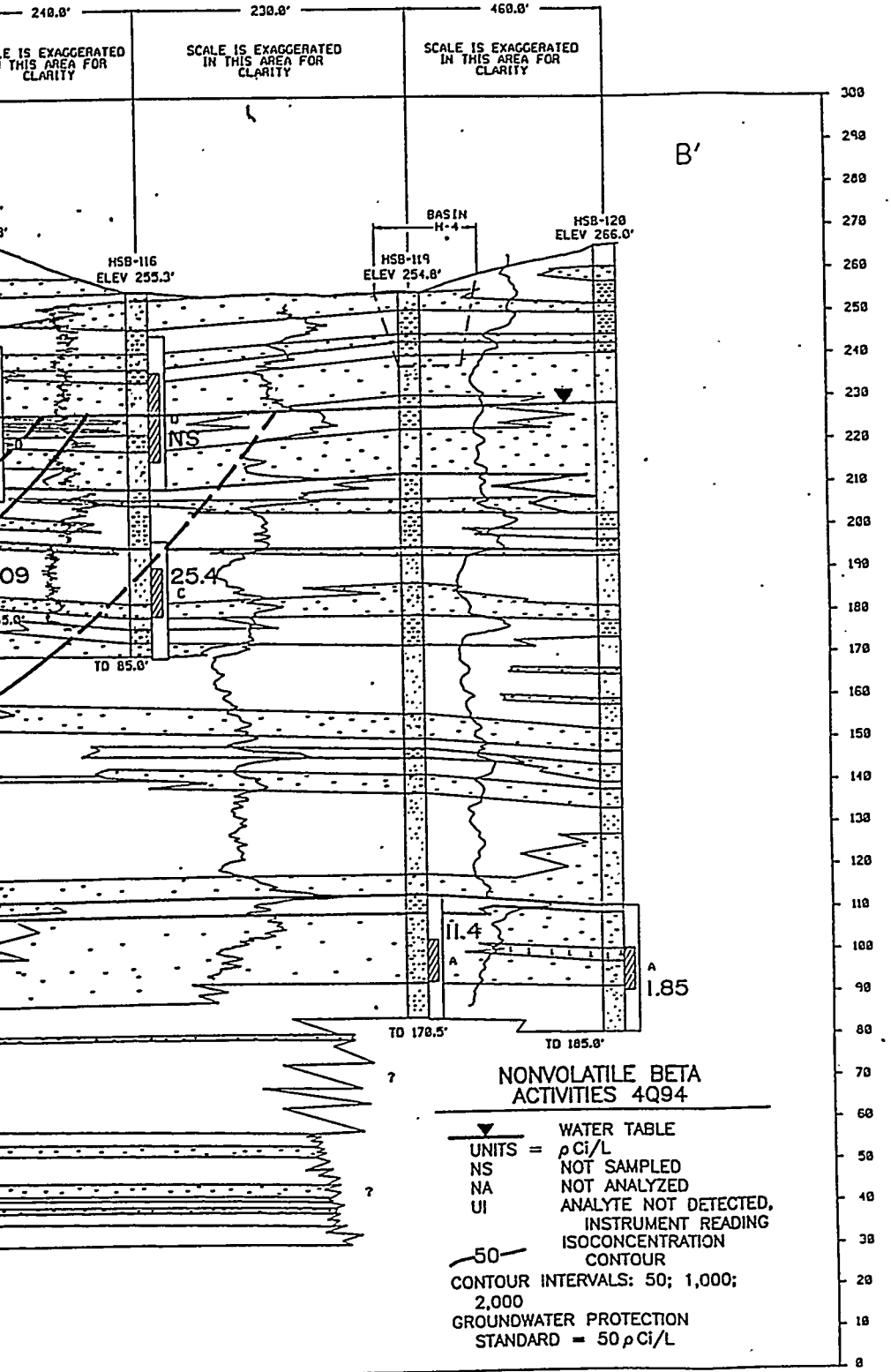
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CROSS-SECT



YDROSTRATIGRAPHIC

ON B



NONVOLATILE BETA ACTIVITIES 4Q94

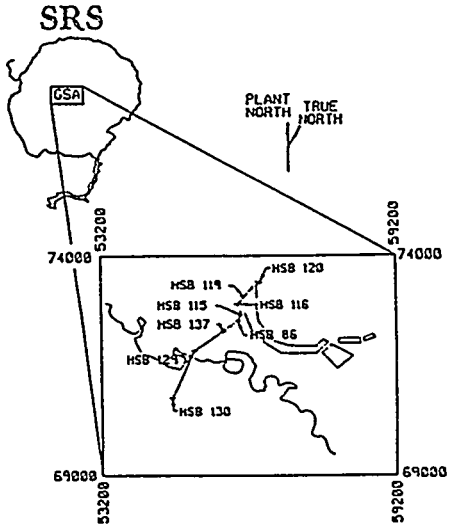
- ▼ WATER TABLE
- UNITS = ρCi/L
- NS NOT SAMPLED
- NA NOT ANALYZED
- UI ANALYTE NOT DETECTED, INSTRUMENT READING
- —50— ISOCONCENTRATION CONTOUR
- CONTOUR INTERVALS: 50; 1,000; 2,000
- GROUNDWATER PROTECTION STANDARD = 50 ρCi/L

LEGEND:

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

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
* BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDRIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET



DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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H AREA SEEPAGE BASIN HYDROSTRATIGRAPHIC CROSS SECTION B

NO.	DATE	DESCRIPTION	DRN	APP
1	12/93	REVISED CROSS SECTION	MM	RLH
3	3/94	REVISED HSB-119 & LEGEND	MCS	SFV
2	3/94	ADDED CONFINING SYSTEM LINE E-11	CT	SFV
2	6/94	REVISED CROSS-SECTION	CT	SFV

	CREATED BY	DATE	APPROVED BY	DATE
	TRACY L. MCKLEY	3-1-94	T.WESTERBOOK	3-1-94
	PREPARED BY	DATE	APPROVED BY	DATE
	M.K. HARRIS	3-1-94	T.F. GAUGHAN	3-1-94
	APPROVED BY	DATE	APPROVED BY	DATE
	C. M. LEWIS	3-1-94	NA	93
	APPROVED BY	DATE	APPROVED BY	DATE
	C. THOMPSON	93	NA	93

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Torrance, CA 90503 #PV119E

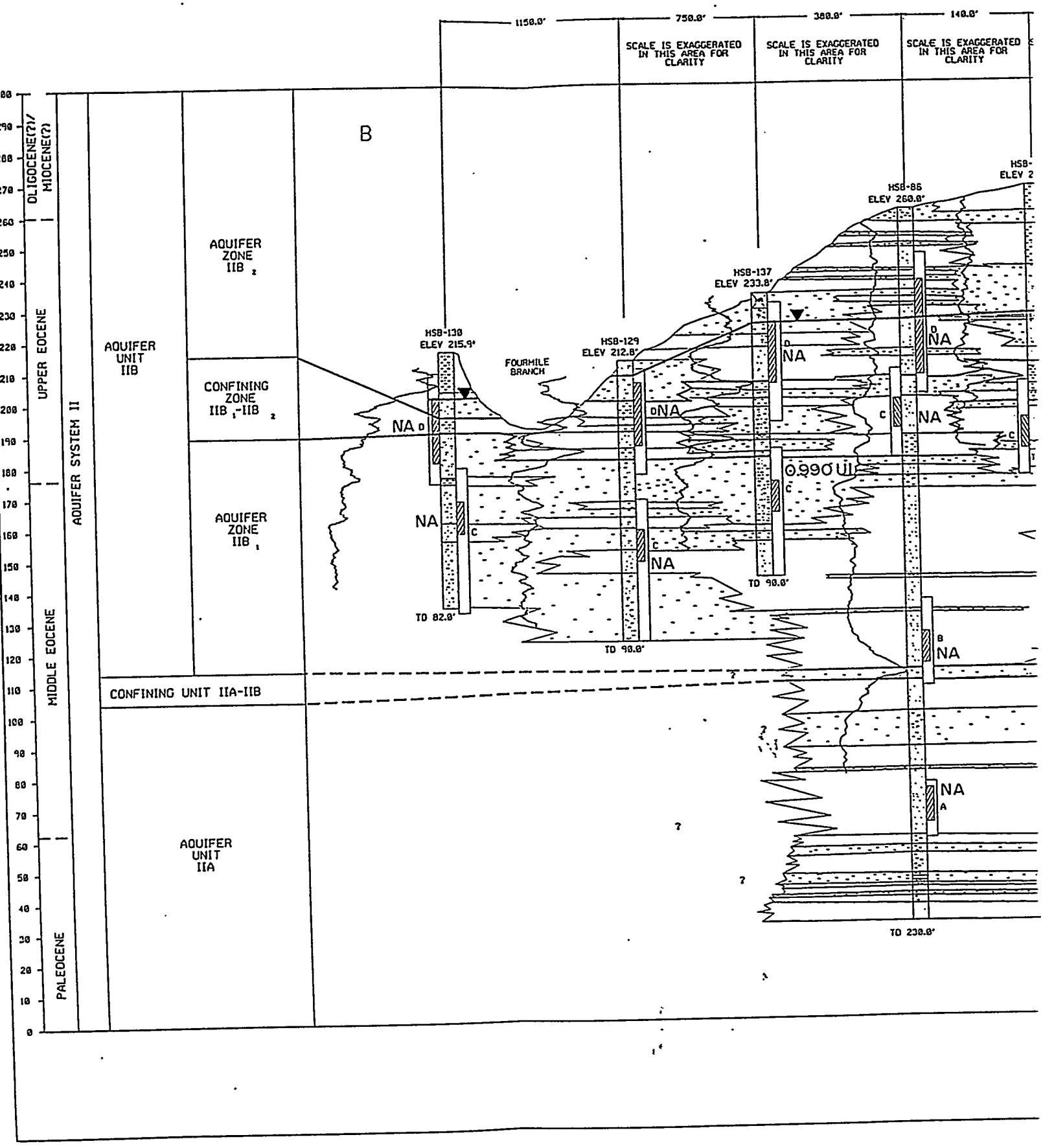
Figure 45. Hydrogeologic Cross Section Showing Radium-226 Activities at the H-Area Seepage Basins, Third Quarter 1994

Figure 46. Hydrogeologic Cross Section Showing Radium-228 Activities at the H-Area Seepage Basins, Third Quarter 1994

Figure 47. Hydrogeologic Cross Section Showing Tritium Activities at the H-Area Seepage Basins, Fourth Quarter 1994

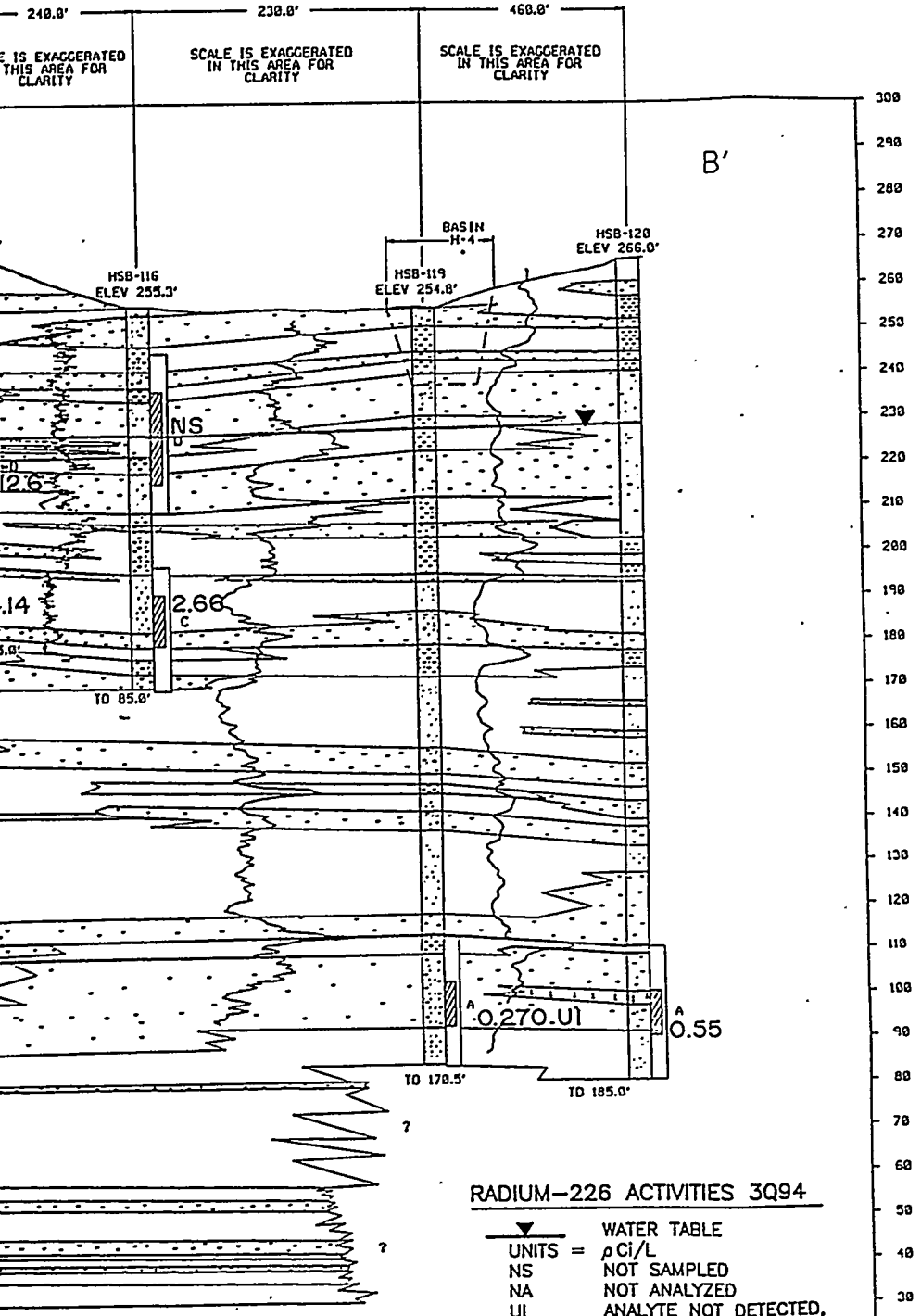
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LEGEND:

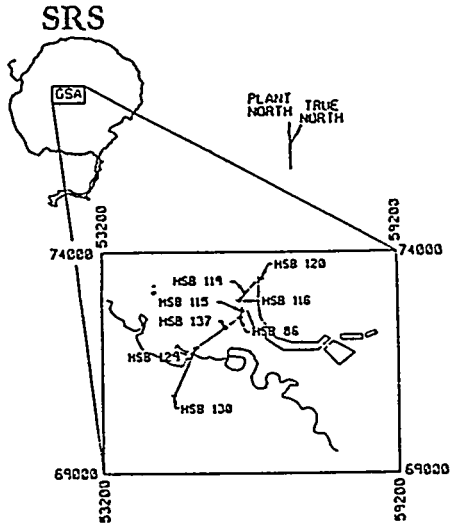
- CALCAREOUS SAND
- CALCAREOUS MUD
- CLAYEY SAND
- SAND
- GRAVEL/PEBBLES
- SILT/CLAY
- SANDY LIMESTONE
- LIMESTONE
- SANDY MUDDY LIMESTONE
- MUDDY LIMESTONE
- SANDY CLAY

SAND PACK INTERVAL-
INCLUDES BENTONITE SEAL
SCREENED INTERVAL

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
• BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDARIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET

SRS



RADIUM–226 ACTIVITIES 3Q94

WATER TABLE
UNITS = pCi/L
NS NOT SAMPLED
NA NOT ANALYZED
UI ANALYTE NOT DETECTED, INSTRUMENT READING
GROUNDWATER PROTECTION STANDARD = 20 pCi/L

Reliable isocontours could not be produced due to changes in sampling requirements.

DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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H AREA SEEPAGE BASIN
HYDROSTRATIGRAPHIC
CROSS SECTION B

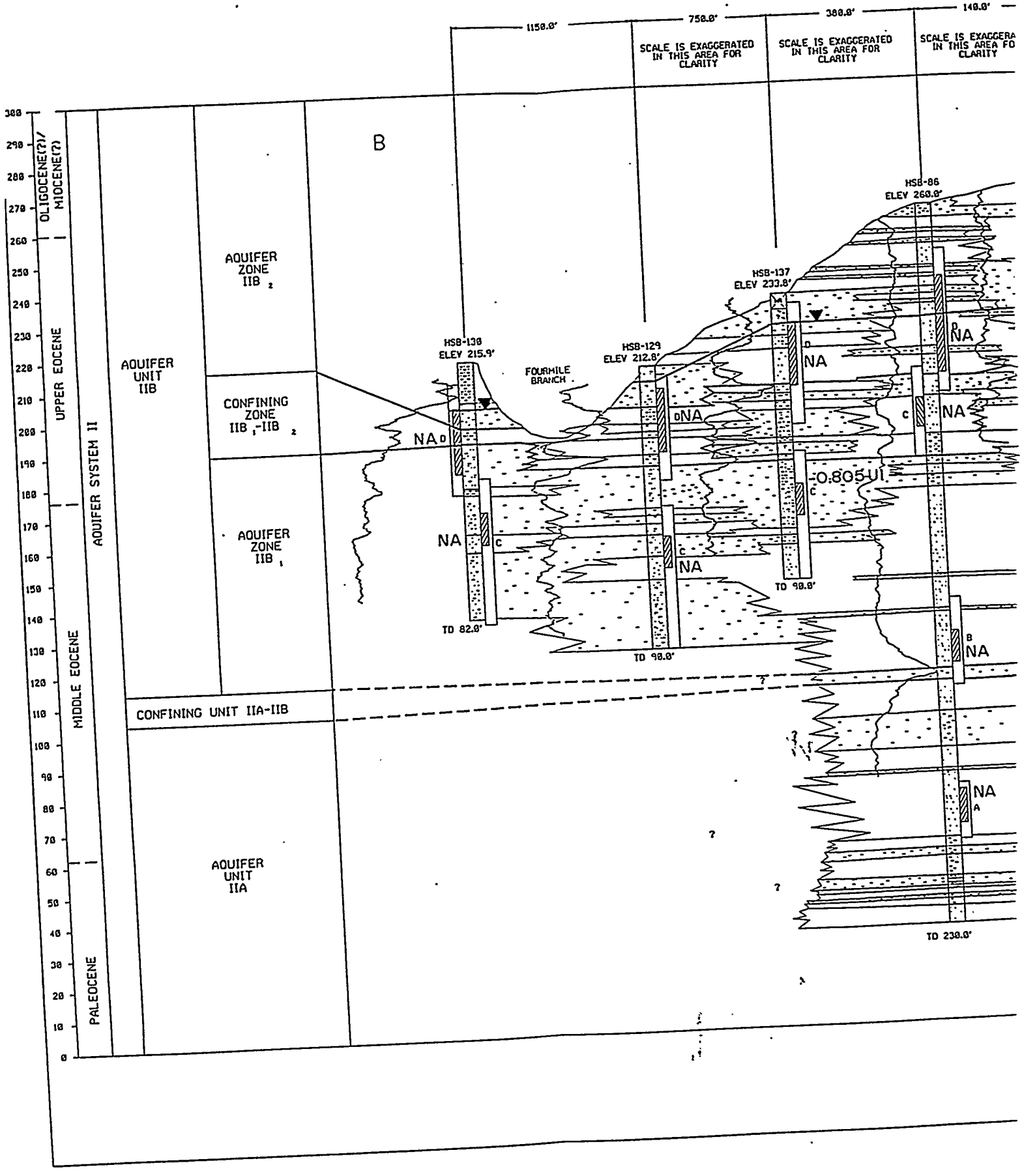
NO.	DATE	ICON	MLS	MVT
1	12-93	REVISED CROSS-SECTION	MLS	SLA
1	1-94	REVISED HSB-119 & UI.270	MLS	TFV
2	2-94	REVISED CONFINING SYSTEM & UNIT I-II	CJT	TFV
2	3-94	REVISED CROSS-SECTION	CJT	TFV

CREATED BY	DATE	APPROVED BY	DATE
TRACY L. WICKLEY	3-1-94	T. WESTBROOK	3-1-94
PREPARED BY	DATE	APPROVED BY	DATE
M K. HARRIS	3-1-94	T.F. GAUGHAN	3-1-94
APPROVED BY	DATE	APPROVED BY	DATE
C. M. LEWIS	3-1-94	NA	93
APPROVED BY	DATE	APPROVED BY	DATE
C. THOMPSON	93	NA	93

RADIUM - 226 3Q94

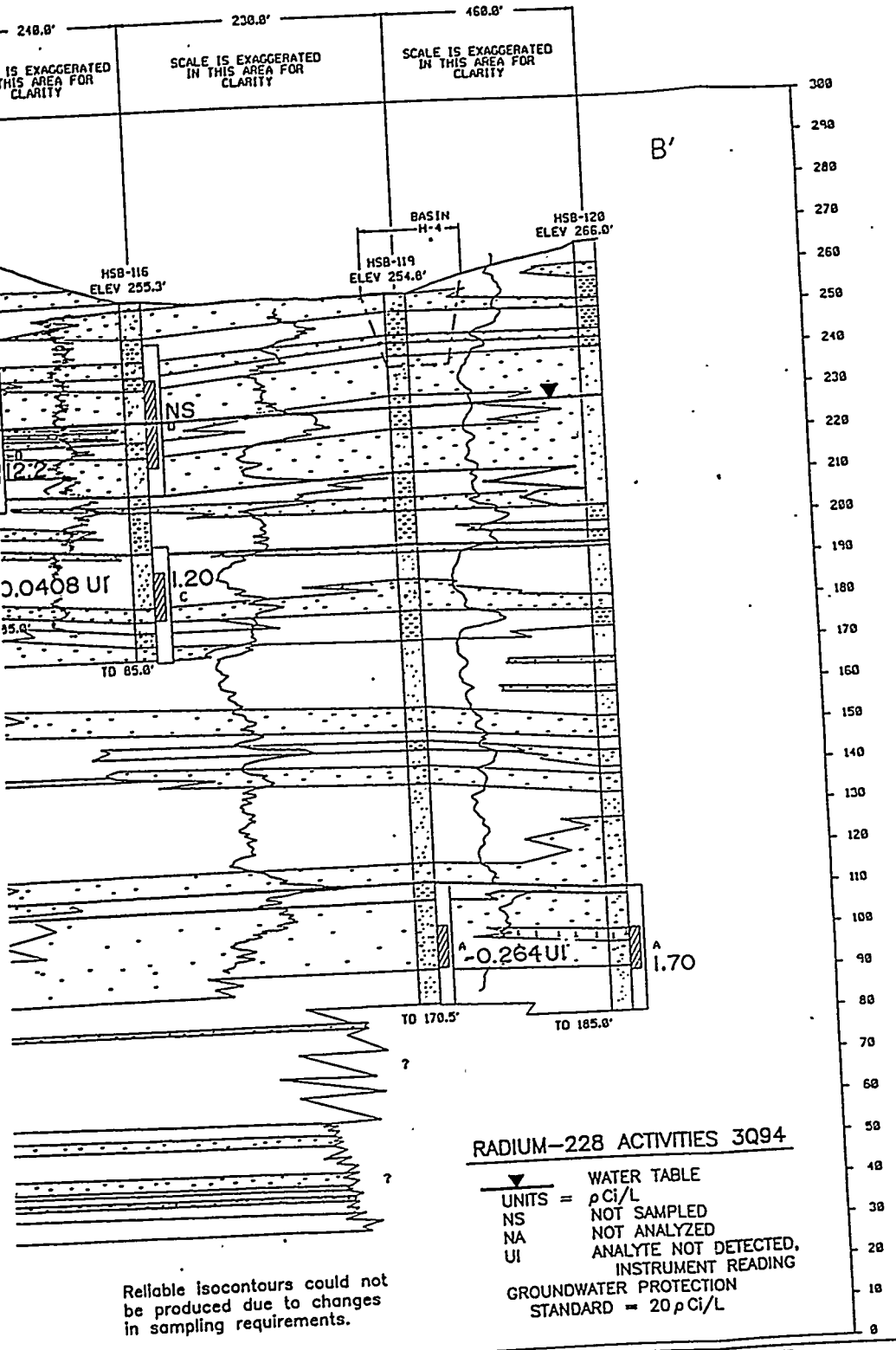
H AREA SEEPAGE BASINS

CROSS-SEC'



YDROSTRATIGRAPHIC

N B



Reliable isocontours could not be produced due to changes in sampling requirements.

RADIUM–228 ACTIVITIES 3Q94

▼ WATER TABLE

UNITS = pCi/L

NS NOT SAMPLED

NA NOT ANALYZED

UI ANALYTE NOT DETECTED, INSTRUMENT READING

GROUNDWATER PROTECTION STANDARD = 20 pCi/L

LEGEND:

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

TD = TOTAL DEPTH

GSA = GENERAL SEPARATIONS AREA

NR = NO RECOVERY

• BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119

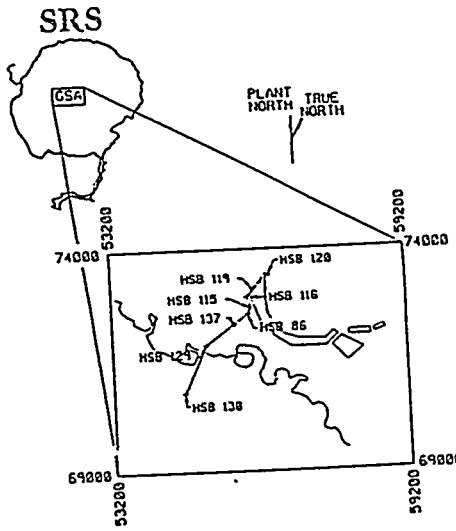
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDRIES.

GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE

HORIZONTAL 0 200 400 FEET

VERTICAL 0 5 10 15 20 FEET



DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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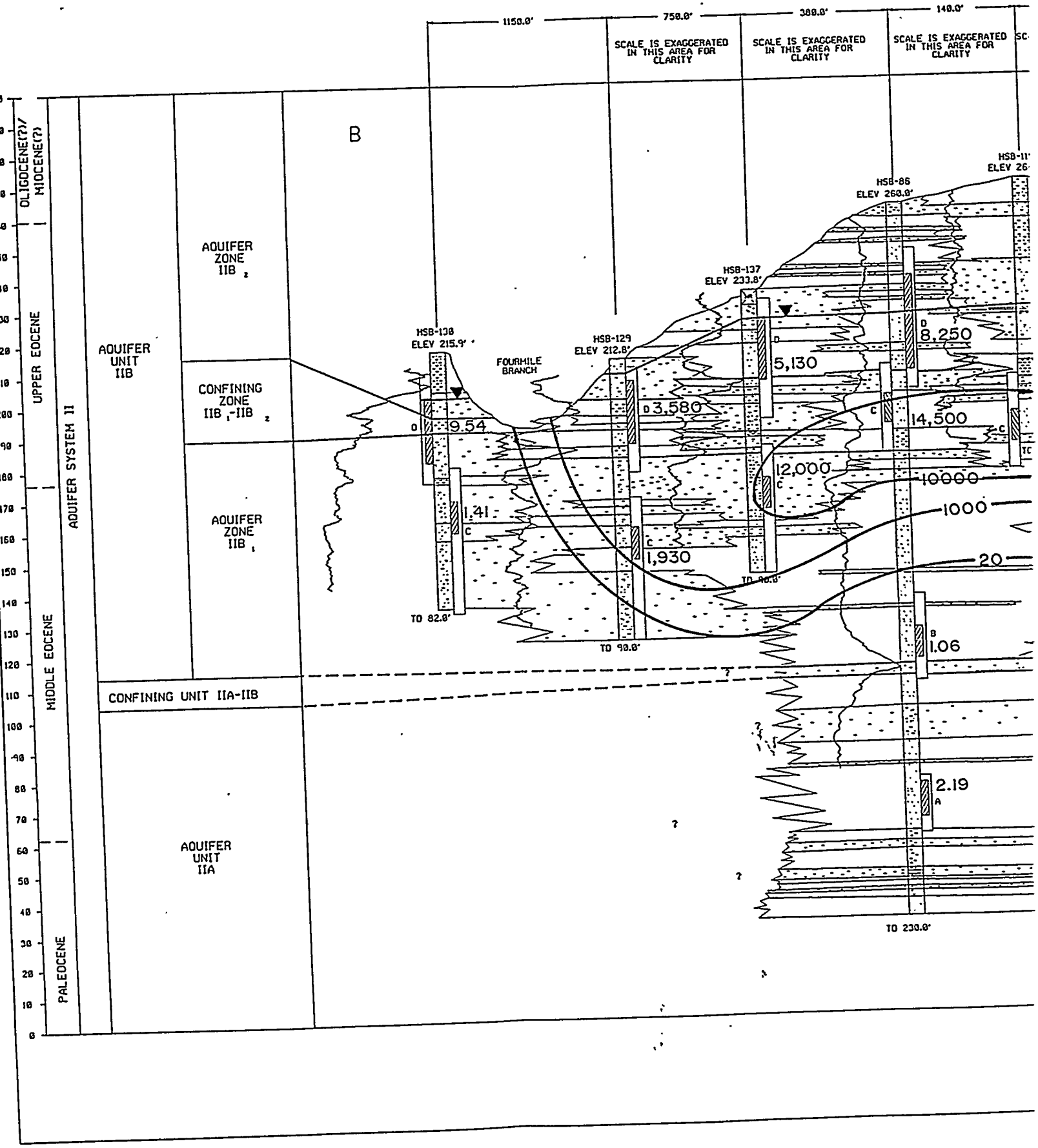
NO.	INIT.	ISSUE	INIT.	INIT.
1	1995	REVISED CROSS-SECTION	MCS	WV
2	1995	REVISED HSB-119 & HSB-120	CT	WV
3	1995	ADDED CONFINING SYSTEM LINE 1-11	CT	WV
2	1995	REVISED CROSS-SECTION	CT	WV

CREATED BY: TRACY L. WICKLEY	DATE: 3-1-94	APPROVED BY: T.WESTEROOK	DATE: 3-1-94
PREPARED BY: M.K. HARRIS	DATE: 3-1-94	APPROVED BY: T.F. CAUGHAN	DATE: 3-1-94
APPROVED BY: C. M. LEWIS	DATE: 3-1-94	APPROVED BY: NA	DATE: 93
APPROVED BY: C. THOMPSON	DATE: 93	APPROVED BY: NA	DATE: 93

RADIUM-228 3Q94

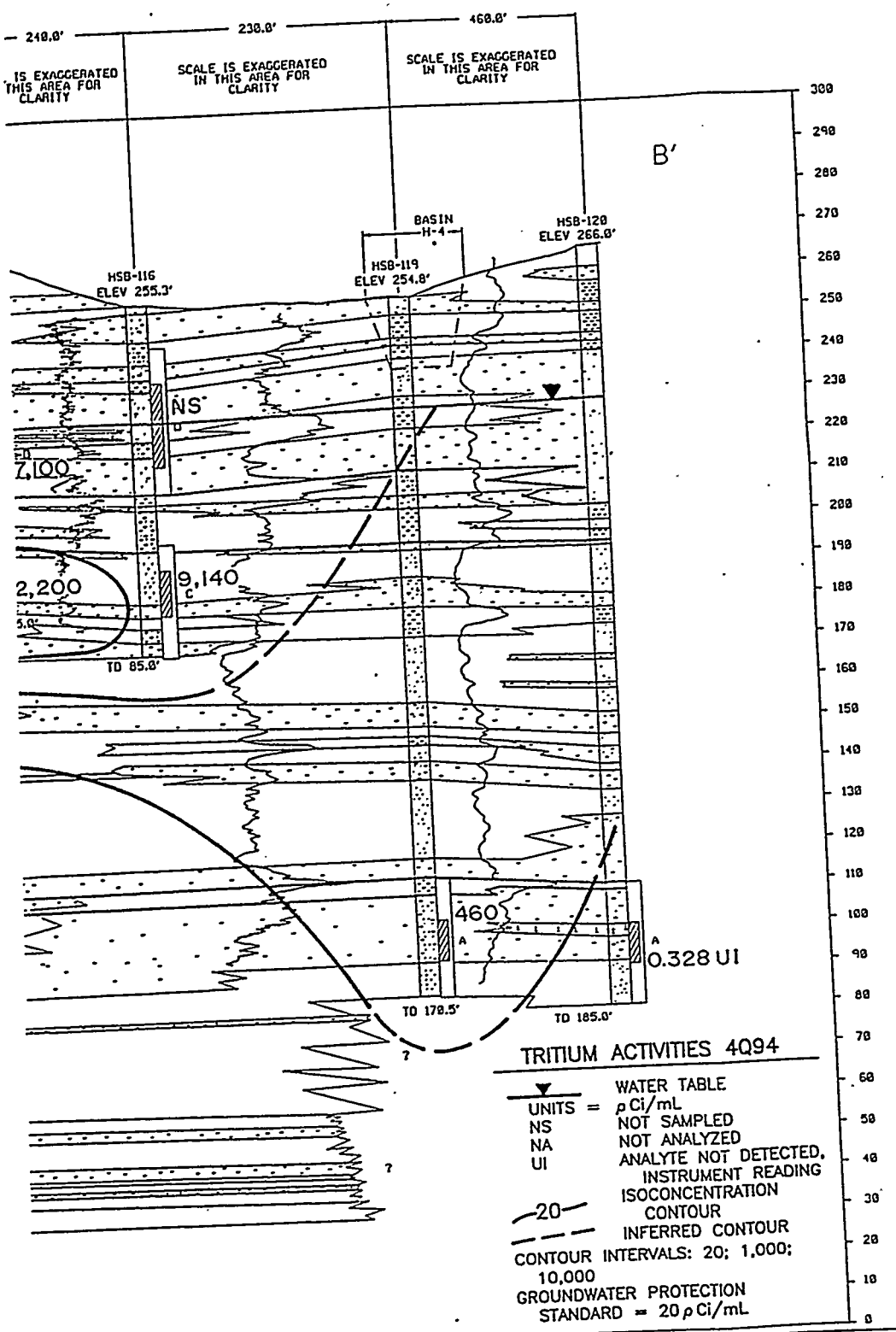
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CROSS-SECTI(



⟨DROSTRATIGRAPHIC

N B



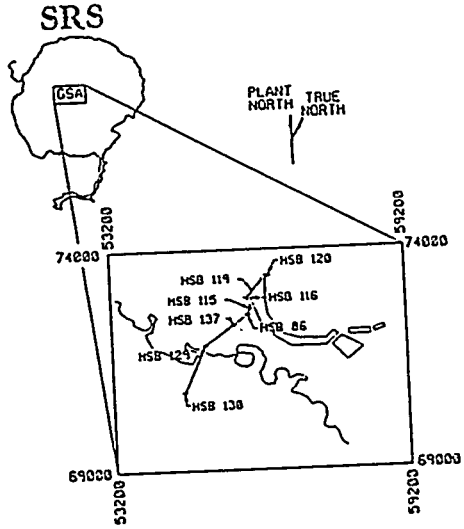
LEGEND:

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

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
• BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDARIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET

SRS



TRITIUM ACTIVITIES 4Q94

WATER TABLE
UNITS = pCi/mL
NS NOT SAMPLED
NA NOT ANALYZED
UI ANALYTE NOT DETECTED. INSTRUMENT READING
-20- ISOCONCENTRATION CONTOUR
INFERRED CONTOUR
CONTOUR INTERVALS: 20; 1,000; 10,000
GROUNDWATER PROTECTION STANDARD = 20 pCi/mL

DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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TITLE
H AREA SEEPAGE BASIN
HYDROSTRATIGRAPHIC
CROSS SECTION B

NO.	DATE	ISSUE	DRN	CHK
1	12/93	REVISED CROSS SECTION	MLS	TLR
1	1/94	REVISED HSB-119 & LEGEND	MLS	TLR
2	3/94	REVISED CROSS SECTION LINE I-II	CT	TLR
3	3/94	REVISED CROSS-SECTION	CT	TLR

CREATED BY TRACY L. WICKLEY	DATE 3-1-94	APPROVED BY T.WESTERBROOK	DATE 3-1-94
PREPARED BY M.K. HARRIS	DATE 3-1-94	APPROVED BY T.F. GAUGHAN	DATE 3-1-94
APPROVED BY C. M. LEWIS	DATE 3-1-94	APPROVED BY NA	DATE 93
APPROVED BY C. THOMPSON	DATE 93	APPROVED BY NA	DATE 93

TRITIUM 4 QTR 4

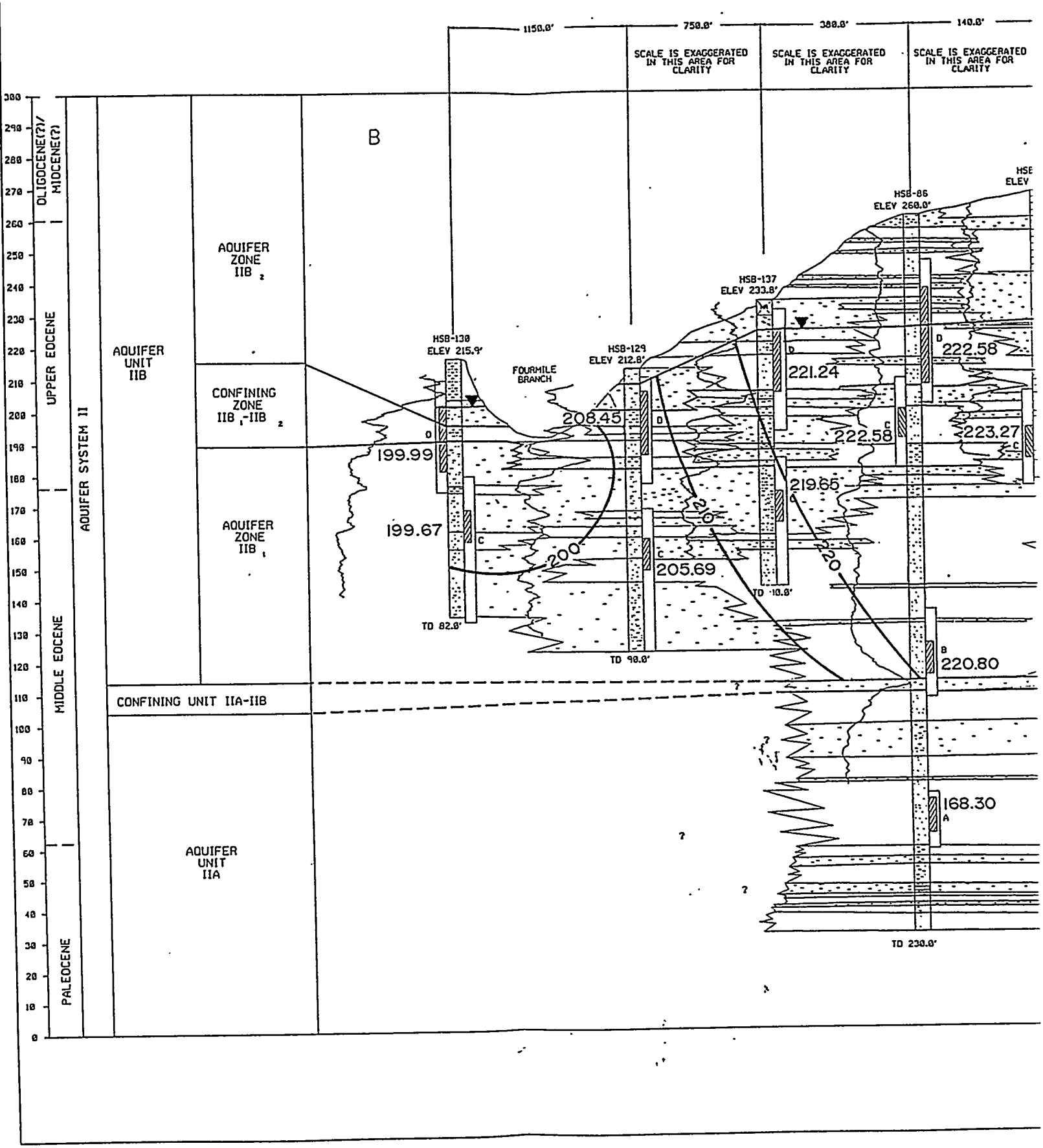
K&M Company POLY-NU
Torrance, CA 90503 #PV119E

Figure 48. Hydrogeologic Cross Section Showing Equipotential Surfaces at the H-Area Seepage Basins, Third Quarter 1994

Figure 49. Hydrogeologic Cross Section Showing Equipotential Surfaces at the H-Area Seepage Basins, Fourth Quarter 1994

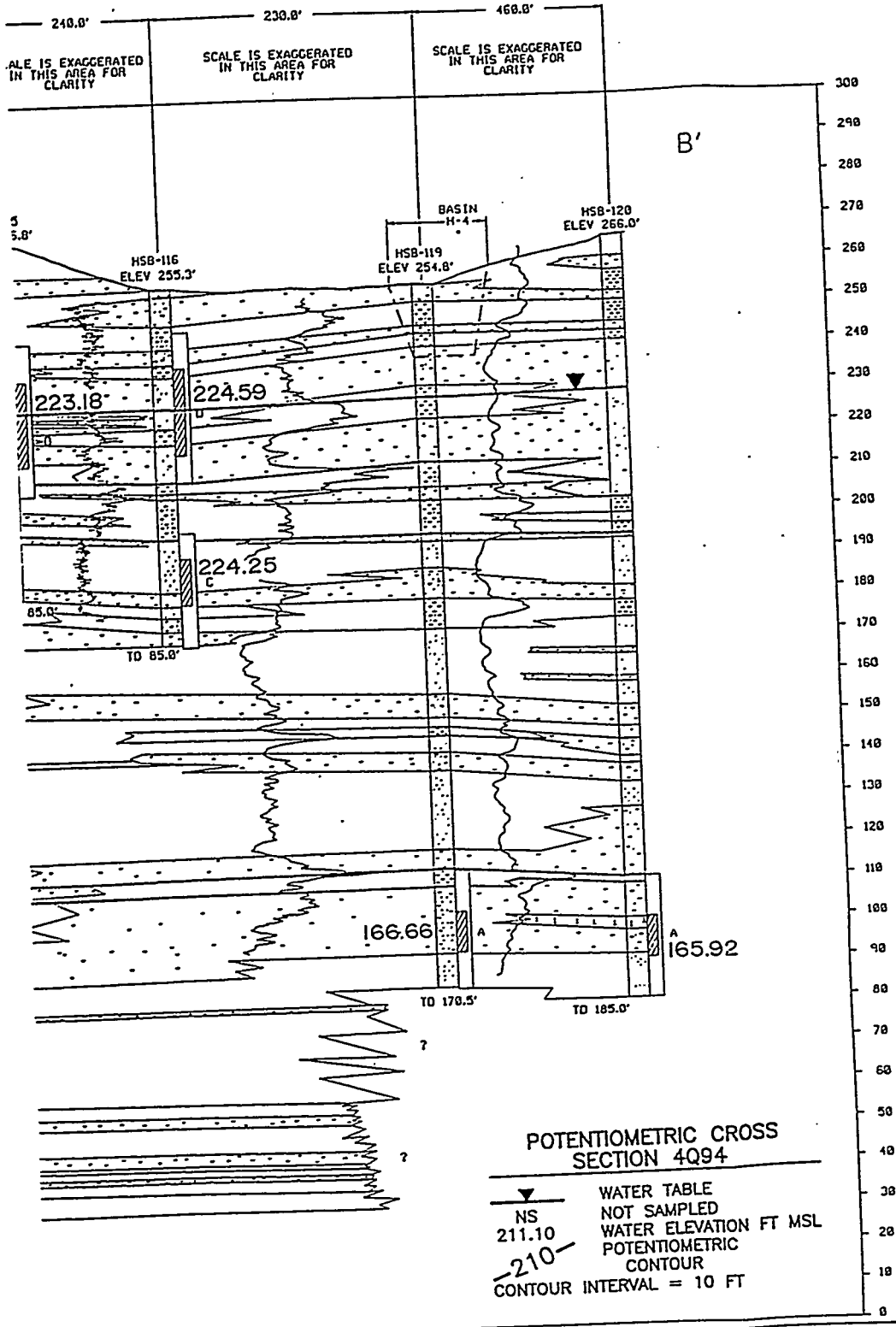
H AREA SEEPAGE BASINS

CROSS-SECT



HYDROSTRATIGRAPHIC

ON B

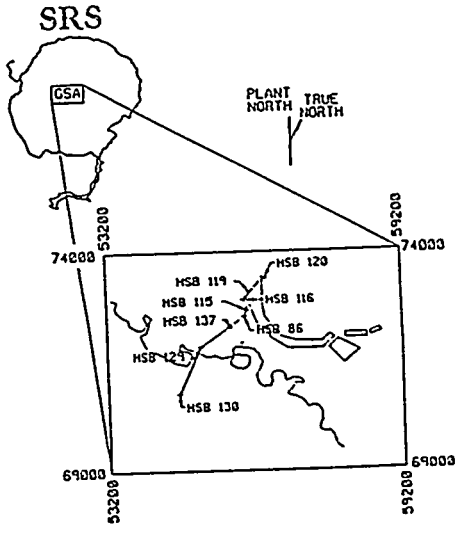


LEGEND:

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

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
. BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDRIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET



POTENTIOMETRIC CROSS SECTION 4Q94

- WATER TABLE
- NS — NOT SAMPLED
- 211.10 — WATER ELEVATION FT MSL
- 210 — POTENTIOMETRIC CONTOUR
- CONTOUR INTERVAL = 10 FT

DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

WSRC — SAFETY · RESPONSIBILITY · SECURITY — SAVANNAH RIVER SITE

ENVIRONMENTAL RESTORATION — Restoring the Environment Today for a Cleaner Tomorrow

TITLE

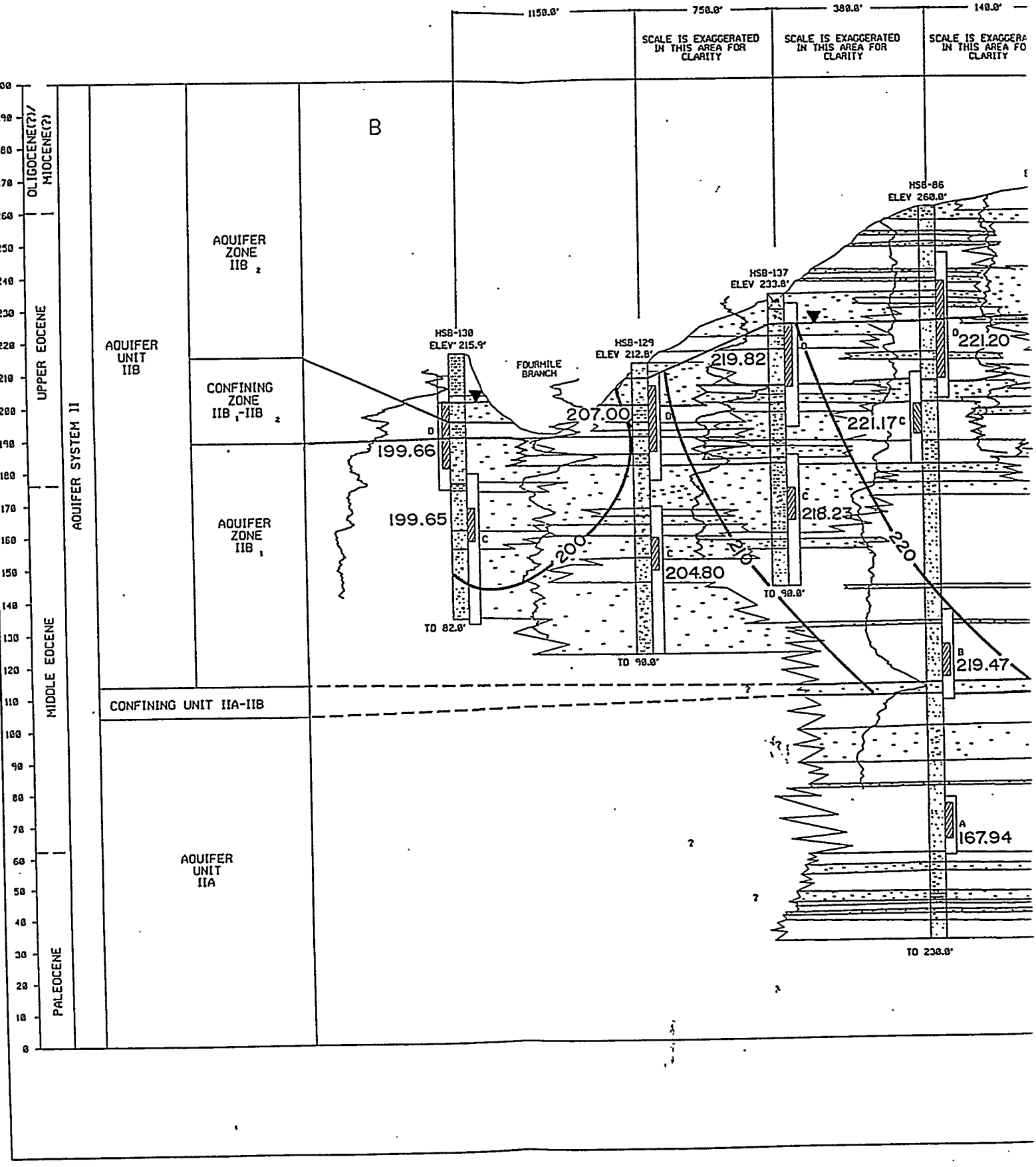
H AREA SEEPAGE BASIN HYDROSTRATIGRAPHIC CROSS SECTION B

NO.	BY	ISSUE	WELL	UNIT
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1	[illegible]	REVISED HSB-119 & LEGEND	4Q	SFA
1	[illegible]	PLACED CONFINING SYSTEM LINE E-11	CS	SFA
2	[illegible]	REVISED CROSS SECTION	CS	SFA
1	[illegible]			

CREATED BY	TRACY L. MCKLEY	DATE	3-1-94	APPROVED BY T.WESTERBOOK — DATE 3-1-
PREPARED BY	M.K. HARRIS	DATE	3-1-94	APPROVED BY T.F. CAUGHAN — DATE 3-1-
APPROVED BY	C. M. LEWIS	DATE	3-1-94	APPROVED BY NA — DATE 93
APPROVED BY	C. THOMPSON	DATE	93	APPROVED BY NA — DATE 93

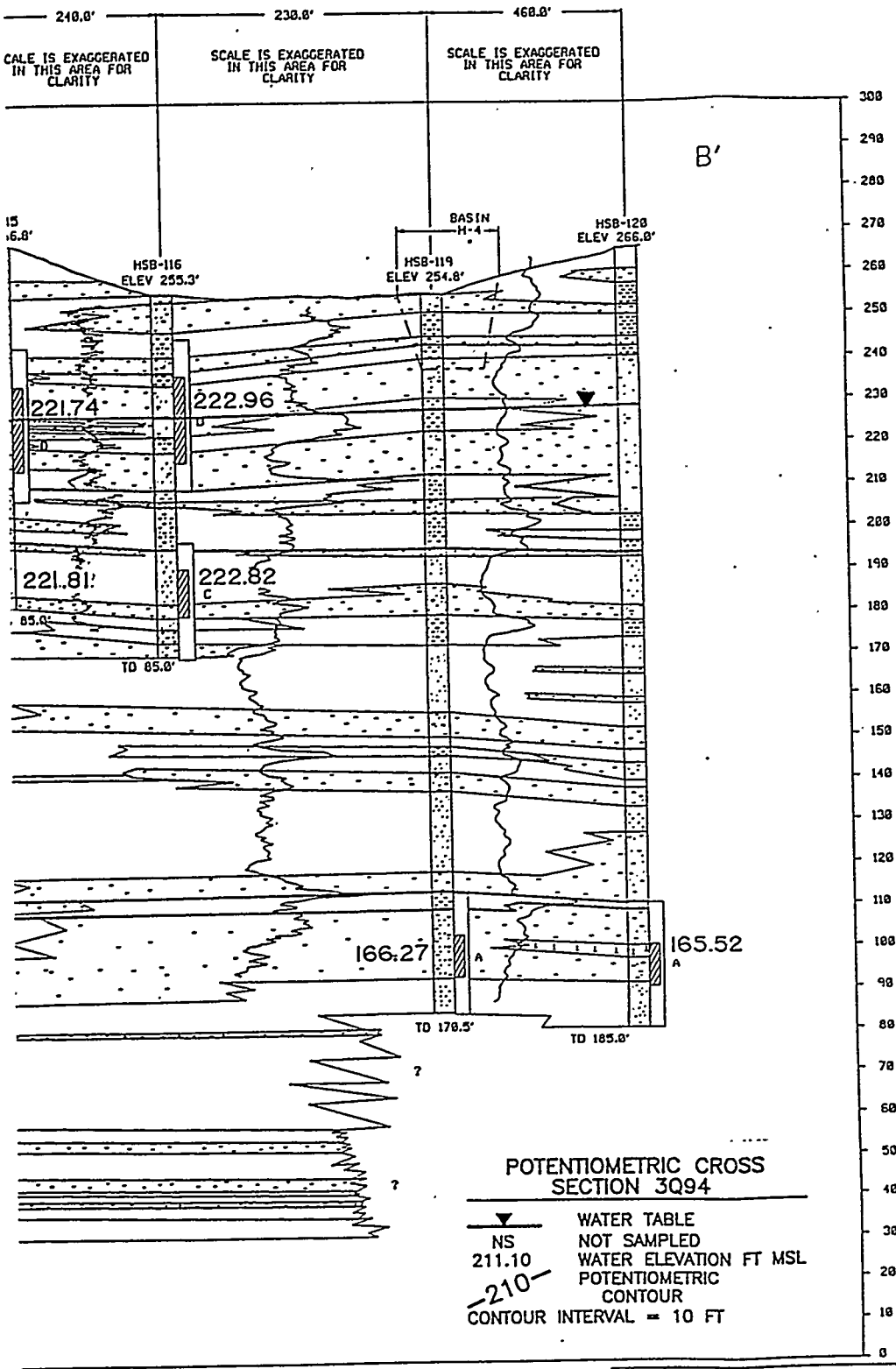
H AREA SEEPAGE BASINS

CROSS-SEC



HYDROSTRATIGRAPHIC

ON B

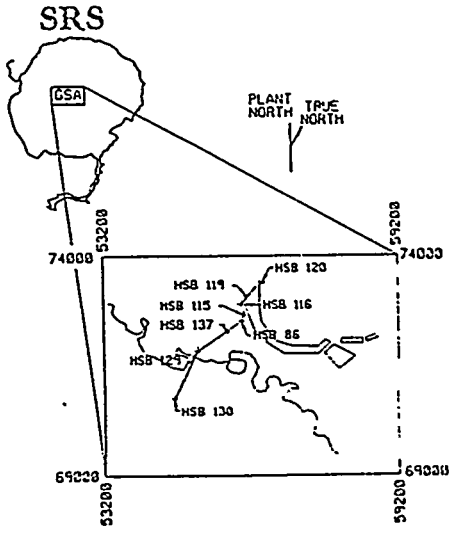


LEGEND:

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

TD = TOTAL DEPTH
GSA = GENERAL SEPARATIONS AREA
NR = NO RECOVERY
• BASIN H-4 PLACED TO SCALE RELATIVE TO HSB-119
— = CONFINING ZONE, UNIT, AND SYSTEM BOUNDARIES.
GEOPHYSICAL CURVE = NATURAL GAMMA

SCALE
HORIZONTAL 0 200 400 FEET
VERTICAL 0 5 10 15 20 FEET



POTENTIOMETRIC CROSS SECTION 3Q94

- WATER TABLE
- NS NOT SAMPLED
- 211.10 WATER ELEVATION FT MSL
- -210- POTENTIOMETRIC CONTOUR
- CONTOUR INTERVAL = 10 FT

DWG NO.	REV. NO.	REV. DATE	AREA
SH00027	2	3-1-94	H-AREA

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NO.	REV.	DESCRIPTION	BY	CHK
1	1993	REVISED CROSS-SECTION	MH	NA
1	1993	REVISED HSB-119 & LLCDG	MCS	WY
2	1994	ROUNDED CONFINING SYSTEM LINE I-II	CT	WY
2	1994	REVISED CROSS-SECTION	CT	WY

CREATED BY	DATE	APPROVED BY	DATE
TRACY L. WICKLEY	3-1-94	T.WESTBROOK	3-1-94
DRAWN BY	DATE	APPROVED BY	DATE
M.K. HARRIS	3-1-94	T.F. GAUGHAN	3-1-94
APPROVED BY	DATE	APPROVED BY	DATE
C. M. LEWIS	3-1-94	NA	93
APPROVED BY	DATE	APPROVED BY	DATE
C. THOMPSON	93	NA	93

References

Aadland, R. K., and H. W. Bledsoe, 1990. **Classification of Hydrostratigraphic Units at the Savannah River Site, South Carolina**, WSRC-RP-90-987. Westinghouse Savannah River Company, Savannah River Site, Aiken, SC.

Aucott, W. R., M. E. Davis, and G. K. Speiran, 1987. **Geohydrologic Framework of the Coastal Plain Aquifers of South Carolina**, U.S. Geological Survey Water-Resources Investigations Report 85-4271.

Du Pont (E. I. du Pont de Nemours & Company), 1989. **Final Safety Analysis Report of the Defense Waste Processing Facility**, DPSTSA-200-10. Savannah River Plant, Aiken, SC.

GeoTrans, Inc., 1988. **A Numerical Model of the Hydrogeological System Underlying the Savannah River Plant**, Final report submitted to Savannah River Laboratory. GeoTrans, Inc., Sterling, VA.

Siple, G. E., 1967. **Geology and Ground Water of the Savannah River Plant and Vicinity, South Carolina**. Geological Survey Water-Supply Paper 1841, Reston, VA.

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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
SC	Savannah River Technology Center
SP	Spencer Testing Services, Inc.
TM	TMA/Eberline
WA and WS	Roy F. Weston, Inc.

Sampling Codes

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

Sampling Methods

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

Units

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

Other

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

Holding Times

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

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

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

Data Rounding

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

Data Qualification

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

Result Modifiers

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

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

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 65	Aluminum	µg/L	52	Y	NA[a]	
	pH	pH	6.0	JY3	5.2	J1
	Tritium	pCi/mL	3.0E+01		3.0E+01	
HSB 65C	pH	pH	5.7	JY3	5.2	J1
	Tritium	pCi/mL	3.0E+01		2.8E+01	
HSB 66	Aluminum	µg/L	100	Y	NA	
	pH	pH	5.8	JY3	5.7	J1
	Tritium	pCi/mL	3.2E+01		2.4E+01	
HSB 67	Aluminum	µg/L	1,700	Y	NA	
	Gross alpha	pCi/L	2.1E+01		–[b]	
	Nonvolatile beta	pCi/L	1.4E+03		1.2E+03	
	pH	pH	4.7	JY3	4.4	J1
	Tritium	pCi/mL	1.3E+03		1.2E+03	
HSB 69	Aluminum	µg/L	1,100	Y	NA	
	Nonvolatile beta	pCi/L	1.6E+03		1.4E+03	
	pH	pH	4.5	JY3	4.2	J1
	Tritium	pCi/mL	8.3E+01		6.6E+01	
HSB 70	pH	pH	5.4	JY3	6.2	J1
	Tritium	pCi/mL	3.8E+01		4.4E+01	
HSB 71	pH	pH	5.5	JY3	5.6	J1
	Tritium	pCi/mL	1.4E+02		3.4E+01	
HSB 83D	Aluminum	µg/L	170	Y	NA	
	pH	pH	5.5	JY3	5.4	J1
	Tritium	pCi/mL	6.1E+02		4.1E+02	
HSB 84D	Nonvolatile beta	pCi/L	3.9E+02		2.2E+02	
	pH	pH	4.5	JY3	4.9	J1
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	3.2E+02		2.8E+02	
HSB 85C	pH	pH	6.3	JY3	5.3	J1
HSB 86D	Aluminum	µg/L	2,400	Y	NA	
	Gross alpha	pCi/L	3.8E+01		7.5E+01	
	Nitrate as nitrogen	µg/L	35,000	JY3	37,000	
	Nonvolatile beta	pCi/L	1.5E+03		2.5E+03	
	pH	pH	4.0	JY3	4.4	J1
	Tritium	pCi/mL	1.2E+04		8.3E+03	
HSB100D	Aluminum	µg/L	79	Y	NA	
	pH	pH	5.6	JY3	5.6	J1
	Strontium-90	pCi/L	1.5E+01		NA	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
	Tritium	pCi/mL	4.1E+02		5.0E+02	
	Zinc	µg/L	95	Y	NA	
HSB101D	Aluminum	µg/L	220	Y	NA	
	Arsenic	µg/L	55	Y	NA	
	Cyanide	µg/L	220	J	NA	
	Iodine-129	pCi/L	7.8E+00		NA	
	Mercury	µg/L	5.7	JY3	4.0	
	Nitrate as nitrogen	µg/L	12,000	Y	400,000	
	Tritium	pCi/mL	1.4E+04		1.4E+04	
	Vanadium	µg/L	220	Y	NA	
HSB103D	Aluminum	µg/L	540	Y	NA	
	Iodine-129	pCi/L	1.9E+01		NA	
	Mercury	µg/L	2.8	Y	–	
	Nitrate as nitrogen	µg/L	14,000	Y	13,000	
	Nonvolatile beta	pCi/L	3.9E+02		2.5E+02	
	pH	pH	4.5	JVY3	4.8	J1
	Strontium-89	pCi/L	3.7E+01		NA	
	Strontium-90	pCi/L	1.8E+02		NA	
	Tritium	pCi/mL	2.3E+03		1.8E+03	
HSB104D	Aluminum	µg/L	2,300	Y	NA	
	Cyanide	µg/L	240	J	NA	
	Iodine-129	pCi/L	2.1E+00	J	NA	
	Mercury	µg/L	2.1	Y	–	
	Nonvolatile beta	pCi/L	1.7E+03		1.0E+03	
	pH	pH	4.1	JY3	4.5	J1
	Strontium-90	pCi/L	6.8E+02		NA	
	Tritium	pCi/mL	7.1E+02		6.1E+02	
HSB105D	Aluminum	µg/L	2,400	Y	NA	
	Cyanide	µg/L	200	J	NA	
	Gross alpha	pCi/L	2.2E+01		2.1E+01	
	Iodine-129	pCi/L	1.2E+01		NA	
	Mercury	µg/L	7.0	Y	10	
	Nitrate as nitrogen	µg/L	–	Y	14,000	
	Nonvolatile beta	pCi/L	1.2E+03		1.7E+03	
	pH	pH	4.2	JY3	4.2	J1
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	5.2E+02		NA	
	Tritium	pCi/mL	4.7E+03		3.4E+03	
HSB106D	Aluminum	µg/L	830	Y	NA	
	Cyanide	µg/L	150	J	NA	
	Iodine-129	pCi/L	5.8E+00		NA	
	Nitrate as nitrogen	µg/L	13,000	Y	10,000	
	Nonvolatile beta	pCi/L	5.4E+02		5.4E+02	
	pH	pH	4.4	JY3	5.7	J1
	Strontium-89	pCi/L	4.8E+01		NA	
	Strontium-90	pCi/L	1.8E+02		NA	
	Tritium	pCi/mL	1.0E+03		4.7E+02	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB107D	Aluminum	µg/L	110	Y	NA	
	Iodine-129	pCi/L	3.1E+00	J3	NA	
	Mercury	µg/L	4.9	Y	4.4	
	Nitrate as nitrogen	µg/L	29,000	Y	340,000	
	Nonvolatile beta	pCi/L	2.3E+03		1.4E+03	
	pH	pH	5.1	JY3	5.3	J1
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	8.5E+02		NA	
	Tritium	pCi/mL	4.3E+03		3.3E+03	
HSB109D	Aluminum	µg/L	380	Y	NA	
	Iodine-129	pCi/L	2.5E+00	J3	NA	
	Nonvolatile beta	pCi/L	3.8E+02		8.7E+02	
	pH	pH	4.6	JY3	4.7	JY1
	Strontium-90	pCi/L	1.3E+02		NA	
	Tritium	pCi/mL	5.2E+01		8.2E+01	
HSB110D	Aluminum	µg/L	220	Y	NA	
	Dichloromethane	µg/L	9.5	Y	NA	
	Nonvolatile beta	pCi/L	7.5E+01		8.2E+01	
	pH	pH	4.7	JY3	5.1	J1
	Strontium-90	pCi/L	2.6E+01		NA	
HSB111D	Aluminum	µg/L	140	Y	NA	
	Iodine-129	pCi/L	8.0E+00		NA	
	Nitrate as nitrogen	µg/L	37,000	Y	42,000	
	pH	pH	5.0	JY3	5.4	J1
	Tritium	pCi/mL	8.6E+03		8.5E+03	
HSB111E	Aluminum	µg/L	400	Y	NA	
	Nonvolatile beta	pCi/L	2.5E+02		2.6E+02	
	pH	pH	4.5	JY3	4.8	J1
	Strontium-90	pCi/L	1.3E+02		NA	
	Tritium	pCi/mL	2.6E+02		2.4E+02	
HSB112D	Iodine-129	pCi/L	1.3E+01		NA	
	Nitrate as nitrogen	µg/L	25,000	Y	26,000	
	pH	pH	5.5	JY3	5.3	J1
	Tritium	pCi/mL	7.3E+03		7.7E+03	
	Zinc	µg/L	54	VY3	NA	
HSB112E	Aluminum	µg/L	230	Y	NA	
	Iodine-129	pCi/L	4.9E+00		NA	
	Nitrate as nitrogen	µg/L	11,000	Y	–	
	Nonvolatile beta	pCi/L	2.4E+02		1.9E+02	
	pH	pH	5.1	JY3	5.2	J1
	Strontium-90	pCi/L	1.4E+02		NA	
	Tritium	pCi/mL	1.5E+03		1.1E+03	
	Zinc	µg/L	52	VY	NA	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB113D	Aluminum	µg/L	8,200	Y	NA	
	Bis(2-ethylhexyl) phthalate	µg/L	40	VY	NA	
	Gross alpha	pCi/L	3.8E+01		3.0E+01	
	Iodine-129	pCi/L	5.0E+01		NA	
	Nickel-63	pCi/L	1.0E+02		NA	
	Nitrate as nitrogen	µg/L	33,000	Y	350,000	Y
	Nonvolatile beta	pCi/L	1.7E+03		1.6E+03	
	pH	pH	3.9	JY3	3.7	J1
	Strontium-90	pCi/L	5.5E+02		NA	
	Tritium	pCi/mL	5.7E+03		4.5E+03	
	Zinc	µg/L	79	VY	NA	
HSB114D	Aluminum	µg/L	5,400	Y	NA	
	Gross alpha	pCi/L	2.8E+01		4.6E+01	
	Iodine-129	pCi/L	1.6E+02		NA	
	Nickel-63	pCi/L	8.3E+01		NA	
	Nitrate as nitrogen	µg/L	25,000	Y	560,000	
	Nonvolatile beta	pCi/L	2.0E+03		1.7E+03	
	pH	pH	3.9	JY3	3.9	J1
	Strontium-90	pCi/L	8.0E+02		NA	
	Tritium	pCi/mL	4.9E+03		6.0E+03	
	Zinc	µg/L	75	Y	NA	
HSB115D	Aluminum	µg/L	10,000	Y	NA	
	Cobalt-60	pCi/L	1.1E+02		NA	
	Gross alpha	pCi/L	3.0E+01		2.9E+01	
	Iodine-129	pCi/L	4.1E+01		NA	
	Lead	µg/L	72	Y	NA	
	Nickel	µg/L	52	Y	NA	
	Nickel-63	pCi/L	1.1E+02		NA	
	Nitrate as nitrogen	µg/L	32,000	Y	39,000	
	Nonvolatile beta	pCi/L	3.4E+03		2.6E+03	
	pH	pH	4.2	JY3	3.9	J1
	Strontium-90	pCi/L	1.5E+03		NA	
	Tritium	pCi/mL	7.9E+03		7.1E+03	
	Zinc	µg/L	92	VY	NA	
HSB117D	Aluminum	µg/L	74	Y	NA	
	pH	pH	5.3	JY3	5.3	J1
	Tritium	pCi/mL	1.7E+02		6.4E+01	
HSB125D	Aluminum	µg/L	61	Y	NA	
	Iodine-129	pCi/L	3.3E+00	J3	NA	
	Mercury	µg/L	–	JY	2.9	
	Nitrate as nitrogen	µg/L	30,000	Y	23,000	
	pH	pH	5.5	JY3	5.6	J1
	Tin	µg/L	24	Y	NA	
	Tritium	pCi/mL	3.0E+03		2.2E+03	
HSB126D	Aluminum	µg/L	380	Y	NA	
	Iodine-129	pCi/L	2.1E+01		NA	
	Mercury	µg/L	–	JY	4.0	
	Nitrate as nitrogen	µg/L	38,000	Y	42,000	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
	pH	pH	5.1	JY3	5.6	J1
	Tritium	pCi/mL	4.2E+03		3.8E+03	
	Zinc	µg/L	22	VY	NA	
HSB127D	Aluminum	µg/L	65	Y	NA	
	Cyanide	µg/L	6.1	Y	NA	
	Iodine-129	pCi/L	8.4E+00		NA	
	Mercury	µg/L	–	JY	2.7	
	Nitrate as nitrogen	µg/L	17,000	Y	13,000	
	Nonvolatile beta	pCi/L	5.3E+01		–	
	pH	pH	5.2	JY3	5.3	J1
	Strontium-90	pCi/L	1.1E+01		NA	
	Tritium	pCi/mL	3.7E+03		1.8E+03	
HSB129D	Aluminum	µg/L	110	Y	NA	
	Nitrate as nitrogen	µg/L	26,000	Y	25,000	Y
	pH	pH	4.9	JY3	5.0	JY1
	Tritium	pCi/mL	3.6E+03		3.6E+03	
HSB130D	pH	pH	6.7	JY3	6.8	J1
HSB131D	Aluminum	µg/L	52	Y	NA	
	pH	pH	5.4	JY3	5.3	J1
HSB132D	pH	pH	5.4	JY3	5.4	J1
HSB133D	Aluminum	µg/L	60	Y	NA	
	pH	pH	5.5	JY3	5.7	J1
	Tritium	pCi/mL	2.5E+01		2.3E+01	
HSB134D	Aluminum	µg/L	710	Y	NA	
	Iodine-129	pCi/L	9.3E+00		NA	
	Nitrate as nitrogen	µg/L	13,000	Y	13,000	
	Nonvolatile beta	pCi/L	1.2E+03		7.0E+02	
	pH	pH	4.3	JY3	4.6	J1
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	4.0E+02		NA	
	Tritium	pCi/mL	1.3E+03		1.7E+03	
HSB135D	Aluminum	µg/L	220	Y	NA	
	Nonvolatile beta	pCi/L	8.7E+01		5.9E+01	
	pH	pH	5.6	JY3	5.5	J1
	Tritium	pCi/mL	8.6E+01		6.5E+01	
HSB136D	Aluminum	µg/L	3,500	Y	NA	
	Gross alpha	pCi/L	3.1E+01		–	J
	Iodine-129	pCi/L	3.2E+01		NA	
	Nickel-63	pCi/L	6.8E+01		NA	
	Nitrate as nitrogen	µg/L	23,000	Y	600,000	Y
	Nonvolatile beta	pCi/L	1.8E+03		1.6E+02	
	pH	pH	4.1	JY3	5.1	JY1
	Radium-226	pCi/L	2.7E+01		NA	
	Strontium-89	pCi/L	8.9E+01		NA	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
	Strontium-90	pCi/L	7.1E+02		NA	
	Tritium	pCi/mL	6.9E+03		3.7E+03	
	Zinc	µg/L	45	VY	NA	
HSB137D	Aluminum	µg/L	120	Y	NA	
	Gross alpha	pCi/L	–	J3	3.7E+01	
	Nitrate as nitrogen	µg/L	19,000	Y	500,000	Y
	Nonvolatile beta	pCi/L	2.2E+02		1.7E+03	
	pH	pH	5.1	JY3	4.3	JY1
	Tritium	pCi/mL	4.6E+03		5.1E+03	
HSB138D	pH	pH	6.5	JY3	6.1	J1
	Tritium	pCi/mL	2.2E+01		4.4E+01	
HSB139D	Aluminum	µg/L	140	Y	NA	
	pH	pH	4.9	JY3	5.6	J1
	Tritium	pCi/mL	1.3E+03		1.1E+02	
HSB140D	pH	pH	5.2	JY3	5.5	J1
HSB141D	Aluminum	µg/L	2,900	Y	NA	
	pH	pH	6.5	JY3	5.7	J1
HSB142D	Aluminum	µg/L	690	Y	NA	
	pH	pH	4.9	JY3	5.4	J1
	Tritium	pCi/mL	6.4E+02		2.1E+02	
HSB143D	Aluminum	µg/L	58	Y	NA	
	pH	pH	–	JY3	4.9	J1
HSB145D	Aluminum	µg/L	1,000	Y	NA	
	Gross alpha	pCi/L	3.7E+01		3.7E+01	
	Iodine-129	pCi/L	1.7E+01		NA	
	Mercury	µg/L	2.7	Y	2.1	
	Nitrate as nitrogen	µg/L	32,000	Y	34,000	
	Nonvolatile beta	pCi/L	4.2E+02		4.4E+02	
	pH	pH	5.7	JY3	5.7	JY1
	Strontium-90	pCi/L	1.9E+02		NA	
	Tritium	pCi/mL	6.3E+03		5.7E+03	
	Zinc	µg/L	34	VY	NA	
HSB146D	Aluminum	µg/L	150	Y	NA	
	pH	pH	5.9	JY3	5.4	J1
	Tritium	pCi/mL	2.2E+01		2.2E+01	
HSB147D	Aluminum	µg/L	1,400	Y	NA	
	pH	pH	5.7	JY3	5.5	J1
HSB148D	Aluminum	µg/L	380	Y	NA	
	pH	pH	8.8	JY3	–	J1

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB149D	Aluminum	µg/L	260	Y	NA	
	pH	pH	5.0	JY3	4.9	J1
	Tritium	pCi/mL	2.5E+01		2.1E+01	
HSB150D	Aluminum	µg/L	1,200	Y	NA	
	pH	pH	5.3	JY3	5.3	J1
	Tritium	pCi/mL	1.7E+02		2.4E+01	
	Zinc	µg/L	65	VY	NA	
HSB151D	Aluminum	µg/L	1,100	Y	NA	
	pH	pH	4.8	JY3	5.2	J1
	Tritium	pCi/mL	3.7E+02		1.2E+02	
HSB152D	Aluminum	µg/L	6,600	Y	NA	
	Lead	µg/L	51	Y	NA	
	pH	pH	5.2	JY3	5.6	J1
	Tritium	pCi/mL	3.9E+02		1.1E+02	
HSL 1D	Aluminum	µg/L	380	Y	NA	
	pH	pH	4.5	JY3	4.7	J1
	Tritium	pCi/mL	3.1E+02		2.1E+02	
HSL 2D	Aluminum	µg/L	91	Y	NA	
	pH	pH	5.3	JY3	5.4	J1
	Tritium	pCi/mL	2.2E+02		1.2E+02	
HSL 3D	Aluminum	µg/L	1,100	Y	NA	
	pH	pH	4.5	JY3	5.4	J1
	Tritium	pCi/mL	4.4E+01		3.8E+01	
HSL 4D	Nonvolatile beta	pCi/L	5.2E+01		7.2E+01	
	pH	pH	5.7	JY3	5.8	J1
	Tritium	pCi/mL	2.4E+01		2.6E+01	
HSL 5D	pH	pH	5.1	JY3	5.3	J1
	Tritium	pCi/mL	–		3.1E+01	
HSL 6D	Aluminum	µg/L	3,700	Y	NA	
	Nonvolatile beta	pCi/L	9.5E+01		1.2E+02	
	pH	pH	4.7	J1	5.4	J1
	Strontium-90	pCi/L	3.1E+01	V	NA	
	Tritium	pCi/mL	1.1E+02		3.3E+01	
	Zinc	µg/L	24		–	
HSL 7D	Aluminum	µg/L	1,900	Y	NA	
	pH	pH	4.8	JY3	4.1	J1
	Tritium	pCi/mL	3.3E+01		4.3E+01	
	Zinc	µg/L	–	Y	22	
HSL 8D	Aluminum	µg/L	300	Y	NA	
	Nitrate as nitrogen	µg/L	11,000	Y	28,000	
	pH	pH	–	J1	5.7	J1
	Tritium	pCi/mL	1.3E+03		3.2E+03	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 68C	Nitrate as nitrogen	µg/L	11,000	Y	360,000	
	pH	pH	5.9	JY3	5.9	J1
	Tritium	pCi/mL	3.9E+03		3.7E+03	
HSB 70C	Nitrate as nitrogen	µg/L	26,000	Y	440,000	
	Nonvolatile beta	pCi/L	5.2E+01		–	
	pH	pH	9.9	JY3	9.7	J1
	Tritium	pCi/mL	4.1E+03		4.2E+03	
HSB 71C	Aluminum	µg/L	420	Y	NA	
	Nitrate as nitrogen	µg/L	33,000	Y	34,000	
	Nonvolatile beta	pCi/L	7.1E+01		1.1E+02	
	Tritium	pCi/mL	5.6E+03		5.8E+03	
HSB 83C	pH	pH	5.9	JY3	5.7	J1
HSB 84C	Aluminum	µg/L	61	Y	NA	
	pH	pH	6.4	JY3	–	J1
	Tritium	pCi/mL	4.8E+02		5.0E+02	
HSB 86C	Aluminum	µg/L	940	Y	NA	
	Gross alpha	pCi/L	2.8E+01		6.1E+01	
	Nitrate as nitrogen	µg/L	47,000	JY3	43,000	
	Nonvolatile beta	pCi/L	2.0E+03		1.8E+03	
	pH	pH	4.4	JY3	5.0	J1
	Tritium	pCi/mL	1.6E+04		1.5E+04	
HSB100C	pH	pH	6.3	JY3	5.2	J1
HSB101C	pH	pH	6.4	JY3	4.9	J1
HSB102C	Nitrate as nitrogen	µg/L	18,000	Y	15,000	
	pH	pH	5.7	JY3	6.0	J1
	Tritium	pCi/mL	1.9E+02		1.9E+02	
HSB103C	Aluminum	µg/L	190	Y	NA	
	Bis(2-ethylhexyl) phthalate	µg/L	92	VY	NA	
	Iodine-129	pCi/L	3.2E+00	J	NA	
	Nitrate as nitrogen	µg/L	–	Y	16,000	
	pH	pH	6.4	JY3	5.3	J1
	Tritium	pCi/mL	6.7E+02		6.5E+02	
	Zinc	µg/L	21	Y	NA	
HSB104C	Aluminum	µg/L	210	Y	NA	
	Cyanide	µg/L	280	J	NA	
	pH	pH	–		9.8	J1
	Tritium	pCi/mL	2.6E+02		2.7E+02	
HSB105C	Cyanide	µg/L	43	J	NA	
	pH	pH	6.0	JY3	6.1	J1
	Tritium	pCi/mL	9.3E+01		9.8E+01	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB106C	Cyanide	µg/L	64	J	NA	
	pH	pH	6.1	JY3	6.3	J1
	Tritium	pCi/mL	2.8E+02		2.8E+02	
HSB107C	Cyanide	µg/L	42	J	NA	
	pH	pH	6.5	JY3	--	J1
	Tritium	pCi/mL	3.8E+02		4.1E+02	
HSB108C	Tritium	pCi/mL	2.5E+02		2.3E+02	
HSB109C	pH	pH	6.4	JY3	6.3	JY1
	Tritium	pCi/mL	6.4E+01		6.3E+01	
HSB110C	pH	pH	5.5	JY3	5.6	J1
HSB111C	Aluminum	µg/L	130	Y	NA	
	Nitrate as nitrogen	µg/L	13,000	Y	14,000	
	pH	pH	5.3	JY3	5.6	J1
	Tritium	pCi/mL	2.5E+03		2.3E+03	
	Zinc	µg/L	22	Y	NA	
HSB112C	Aluminum	µg/L	160	Y	NA	
	pH	pH	6.4	JY3	6.5	J1
	Tritium	pCi/mL	1.2E+03		1.2E+03	
	Zinc	µg/L	69	VY	NA	
HSB113C	Aluminum	µg/L	170	Y	NA	
	Nitrate as nitrogen	µg/L	14,000	Y	15,000	
	pH	pH	5.7	JY3	5.5	J1
	Tritium	pCi/mL	1.7E+03		1.8E+03	
HSB114C	Aluminum	µg/L	370	Y	NA	
	Cyanide	µg/L	9.6	Y	NA	
	Iodine-129	pCi/L	5.5E+00		NA	
	Nitrate as nitrogen	µg/L	41,000	Y	500,000	
	Nonvolatile beta	pCi/L	1.2E+02		8.9E+01	
	pH	pH	4.6	JY3	4.6	J1
	Tritium	pCi/mL	9.3E+03		7.8E+03	
	Zinc	µg/L	34	VY	NA	
HSB115C	Aluminum	µg/L	180	Y	NA	
	Iodine-129	pCi/L	1.4E+01		NA	
	Nitrate as nitrogen	µg/L	33,000	Y	550,000	
	Nonvolatile beta	pCi/L	6.1E+01		1.1E+02	
	pH	pH	6.3	JY3	--	J1
	Tritium	pCi/mL	1.2E+04		1.2E+04	
	Zinc	µg/L	22	VY	NA	
HSB116C	Aluminum	µg/L	120	Y	NA	
	Iodine-129	pCi/L	2.3E+01		NA	
	Nitrate as nitrogen	µg/L	39,000	Y	34,000	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
	pH	pH	5.0	JY3	5.3	J1
	Tritium	pCi/mL	9.5E+03		9.1E+03	
HSB117C	Aluminum	µg/L	680	Y	NA	
	Gross alpha	pCi/L	1.5E+01		2.1E+01	
	Iodine-129	pCi/L	6.4E+00		NA	
	Nitrate as nitrogen	µg/L	43,000	Y	51,000	
	Nonvolatile beta	pCi/L	5.7E+01		1.1E+02	
	pH	pH	4.6	JY3	5.0	J1
	Tin	µg/L	32	Y	NA	
	Tritium	pCi/mL	8.8E+03		8.9E+03	
HSB125C	pH	pH	6.2	JY3	6.2	J1
HSB126C	Tritium	pCi/mL	3.9E+02		4.0E+02	
HSB127C	pH	pH	6.0	JY3	–	J1
	Tritium	pCi/mL	1.0E+03		1.0E+03	
HSB129C	Aluminum	µg/L	91	Y	NA	
	Nitrate as nitrogen	µg/L	14,000	Y	21,000	
	pH	pH	6.2	JY3	6.3	J1
	Tritium	pCi/mL	1.9E+03		1.9E+03	
HSB130C	pH	pH	–	JY3	6.8	J1
HSB131C	Tritium	pCi/mL	1.6E+02		1.7E+02	
HSB132C	Aluminum	µg/L	79	Y	NA	
	pH	pH	5.5	JY3	5.7	J1
HSB133C	pH	pH	6.3	JY3	6.3	J1
HSB134C	pH	pH	–	JY3	5.8	J1
	Tritium	pCi/mL	3.4E+01		3.3E+01	
HSB135C	Aluminum	µg/L	910	Y	NA	
	Tritium	pCi/mL	8.4E+01		7.1E+01	
HSB136C	Iodine-129	pCi/L	5.1E+00		NA	
	Nitrate as nitrogen	µg/L	31,000	Y	36,000	
	Nonvolatile beta	pCi/L	6.4E+01		9.3E+01	
	pH	pH	9.6	JY3	9.4	J1
	Tritium	pCi/mL	7.5E+03		8.2E+03	
HSB137C	Iodine-129	pCi/L	1.1E+01		NA	
	Nitrate as nitrogen	µg/L	48,000	Y	49,000	
	Nonvolatile beta	pCi/L	5.3E+01		1.1E+02	
	Tritium	pCi/mL	1.3E+04		1.2E+04	
	Zinc	µg/L	37	VY	NA	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB139C	Aluminum	µg/L	150	Y	NA	
	Nitrate as nitrogen	µg/L	37,000	Y	39,000	
	pH	pH	5.3	JY3	5.8	J1
	Tritium	pCi/mL	2.9E+03		2.9E+03	
HSB140C	pH	pH	6.0	JY3	–	J1
HSB141C	Aluminum	µg/L	250	Y	NA	
	pH	pH	6.5	JY3	9.5	JY1
HSB142C	pH	pH	6.1	JY3	5.8	J1
HSB143C	pH	pH	6.5	JY3	5.4	J1
HSB145C	Aluminum	µg/L	240	Y	NA	
	Nitrate as nitrogen	µg/L	34,000	Y	36,000	
	Nonvolatile beta	pCi/L	–		6.0E+01	
	pH	pH	6.2	JY3	6.7	J1
	Tritium	pCi/mL	1.8E+03		2.2E+03	
HSB148C	Aluminum	µg/L	430	Y	NA	
	pH	pH	11	JY3	11	J1
HSB151C	Aluminum	µg/L	130	Y	NA	
	Nitrate as nitrogen	µg/L	–	Y	13,000	
	pH	pH	4.7	JY3	5.6	J1
	Tritium	pCi/mL	2.1E+03		2.2E+03	
HSB152C	Aluminum	µg/L	200	Y	NA	
	Nitrate as nitrogen	µg/L	–	Y	12,000	
	Nonvolatile beta	pCi/L	–		1.9E+02	
	pH	pH	4.8	JY3	5.8	J1
	Tritium	pCi/mL	1.3E+03		1.7E+03	
HSL 6C	pH	pH	5.7	JY3	5.5	J1
HSL 8C	Aluminum	µg/L	3,900	Y	3,000	
	pH	pH	11	J1	11	J1
	Tritium	pCi/mL	3.9E+01		2.4E+01	

Aquifer Zone IIB_1 (Barnwell/McBean, lower portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 65B	Aluminum	µg/L	76	Y	NA	
	pH	pH	6.1	JY3	–	J1
HSB 68B	Aluminum	µg/L	400	Y	NA	
	Tritium	pCi/mL	2.3E+01		2.4E+01	

Aquifer Zone IIB_1 (Barnwell/McBean, lower portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 84B	Aluminum	µg/L	69	Y	NA	
	pH	pH	8.7	JY3	9.4	J1
	Tritium	pCi/mL	4.5E+01		5.1E+01	
HSB 85B	pH	pH	–	JY3	9.4	J1
HSB 86B	Aluminum	µg/L	410	Y	NA	
HSL 6B	Aluminum	µg/L	95	Y	430	
	pH	pH	6.1	JY3	6.0	J1
HSL 8B	Aluminum	µg/L	250	V	85	

Aquifer Unit IIA (Congaree)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 68A	pH	pH	6.6	JY3	–	J1
HSB 69A	Nitrate as nitrogen	µg/L	450,000		–	
	pH	pH	–	JY3	5.8	J1
HSB 84A	Nonvolatile beta	pCi/L	–		5.3E+01	
	pH	pH	6.4	JY3	5.5	J1
HSB 86A	pH	pH	6.5	JY3	–	J1
HSB118A	Nitrate as nitrogen	µg/L	21,000	Y	20,000	
	pH	pH	6.6	JY3	–	J1
	Tritium	pCi/mL	9.0E+03		9.7E+03	
HSB119A	pH	pH	6.7	JY3	–	J1
	Tritium	pCi/mL	4.6E+02		4.6E+02	
	Zinc	µg/L	48	VY	NA	
HSB121A	Cyanide	µg/L	5.9	Y	NA	
	Tin	µg/L	19	Y	NA	
HSB122A	Zinc	µg/L	150	VY	NA	
HSB123A	Aluminum	µg/L	53	Y	NA	
	Cyanide	µg/L	7.6	Y	NA	
	pH	pH	12	JY3	12	J1
HSB140A	pH	pH	6.7	JY3	5.2	J1
HSB141A	Aluminum	µg/L	2,200	JY3	NA	
	pH	pH	11	JY3	12	J1
HSB144A	pH	pH	6.7	JY3	–	J1
	Tritium	pCi/mL	2.5E+02		2.3E+02	

Aquifer Unit IIA (Congaree)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSL 6A	Aluminum	µg/L	120	JY3	–	J
	pH	pH	6.5	JY3	6.4	J1
HSL 6AA	pH	pH	6.7	J1	6.5	J1
HSL 8A	Antimony	µg/L	72	J	–	
	pH	pH	–	J1	6.6	J1
HSL 8AA	Aluminum	µg/L	580	Y	590	
	Lead	µg/L	–	Y	150	
	pH	pH	12	J1	13	J1

Notes: This table presents the highest value for duplicate/replicate results.
The groundwater samples are unfiltered. Thus, 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 (NA with an *R* modifier = result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met).
[b] – = analyzed but not above the GWPS.

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

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 65	Aluminum	µg/L	52	Y	NA[a]	
	Tritium	pCi/mL	3.0E+01		3.0E+01	
HSB 65C	Tritium	pCi/mL	3.0E+01		2.8E+01	
HSB 66	Aluminum	µg/L	100	Y	NA	
	Tritium	pCi/mL	3.2E+01		2.4E+01	
HSB 67	Aluminum	µg/L	1,700	Y	NA	
	Gross alpha	pCi/L	2.1E+01		–[b]	
	Nonvolatile beta	pCi/L	1.4E+03		1.2E+03	
	Tritium	pCi/mL	1.3E+03		1.2E+03	
HSB 69	Aluminum	µg/L	1,100	Y	NA	
	Nonvolatile beta	pCi/L	1.6E+03		1.4E+03	
	Tritium	pCi/mL	8.3E+01		6.6E+01	
HSB 70	Tritium	pCi/mL	3.8E+01		4.4E+01	
HSB 71	Tritium	pCi/mL	1.4E+02		3.4E+01	
HSB 83D	Aluminum	µg/L	170	Y	NA	
	Tritium	pCi/mL	6.1E+02		4.1E+02	
HSB 84D	Nonvolatile beta	pCi/L	3.9E+02		2.2E+02	
	Strontium-90	pCi/L	1.6E+02		NA	
	Tritium	pCi/mL	3.2E+02		2.8E+02	
HSB 86D	Aluminum	µg/L	2,400	Y	NA	
	Gross alpha	pCi/L	3.8E+01		7.5E+01	
	Nitrate as nitrogen	µg/L	35,000	JY3	37,000	
	Nonvolatile beta	pCi/L	1.5E+03		2.5E+03	
	Tritium	pCi/mL	1.2E+04		8.3E+03	
HSB100D	Aluminum	µg/L	79	Y	NA	
	Nonvolatile beta	pCi/L	5.0E+01		–	
	Strontium-90	pCi/L	1.5E+01		NA	
	Tritium	pCi/mL	4.1E+02		5.0E+02	
HSB101D	Aluminum	µg/L	220	Y	NA	
	Arsenic	µg/L	55	Y	NA	
	Cyanide	µg/L	220	J	NA	
	Iodine-129	pCi/L	7.8E+00		NA	
	Mercury	µg/L	5.7	JY3	4.0	
	Nitrate as nitrogen	µg/L	12,000	Y	400,000	
	Tritium	pCi/mL	1.4E+04		1.4E+04	
	Vanadium	µg/L	220	Y	NA	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB103D	Aluminum	µg/L	540	Y	NA	
	Iodine-129	pCi/L	1.9E+01		NA	
	Mercury	µg/L	2.8	Y	–	
	Nitrate as nitrogen	µg/L	14,000	Y	13,000	
	Nonvolatile beta	pCi/L	3.9E+02		2.5E+02	
	Strontium-89	pCi/L	3.7E+01		NA	
	Strontium-90	pCi/L	1.8E+02		NA	
	Tritium	pCi/mL	2.3E+03		1.8E+03	
HSB104D	Aluminum	µg/L	2,300	Y	NA	
	Cyanide	µg/L	240	J	NA	
	Iodine-129	pCi/L	2.1E+00	J	NA	
	Mercury	µg/L	2.1	Y	–	
	Nonvolatile beta	pCi/L	1.7E+03		1.0E+03	
	Strontium-90	pCi/L	6.8E+02		NA	
	Tritium	pCi/mL	7.1E+02		6.1E+02	
HSB105D	Aluminum	µg/L	2,400	Y	NA	
	Cyanide	µg/L	200	J	NA	
	Gross alpha	pCi/L	2.2E+01		2.1E+01	
	Iodine-129	pCi/L	1.2E+01		NA	
	Mercury	µg/L	7.0	Y	10	
	Nitrate as nitrogen	µg/L	–		14,000	
	Nonvolatile beta	pCi/L	1.2E+03		1.7E+03	
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	5.2E+02		NA	
	Tritium	pCi/mL	4.7E+03		3.4E+03	
HSB106D	Aluminum	µg/L	830	Y	NA	
	Iodine-129	pCi/L	5.8E+00		NA	
	Nitrate as nitrogen	µg/L	13,000	Y	10,000	
	Nonvolatile beta	pCi/L	5.4E+02		5.4E+02	
	Strontium-89	pCi/L	4.8E+01		NA	
	Strontium-90	pCi/L	1.8E+02		NA	
	Tritium	pCi/mL	1.0E+03		4.7E+02	
HSB107D	Aluminum	µg/L	110	Y	NA	
	Iodine-129	pCi/L	3.1E+00	J3	NA	
	Mercury	µg/L	4.9	Y	4.4	
	Nitrate as nitrogen	µg/L	29,000	Y	340,000	
	Nonvolatile beta	pCi/L	2.3E+03		1.4E+03	
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	8.5E+02		NA	
	Tritium	pCi/mL	4.3E+03		3.3E+03	
HSB109D	Aluminum	µg/L	380	Y	NA	
	Iodine-129	pCi/L	2.5E+00	J3	NA	
	Nonvolatile beta	pCi/L	3.8E+02		8.7E+02	
	Strontium-90	pCi/L	1.3E+02		NA	
	Tritium	pCi/mL	5.2E+01		8.2E+01	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB110D	Aluminum	µg/L	220	Y	NA	
	Dichloromethane	µg/L	9.5	Y	NA	
	Nonvolatile beta	pCi/L	7.5E+01		8.2E+01	
	Strontium-90	pCi/L	2.6E+01		NA	
HSB111D	Aluminum	µg/L	140	Y	NA	
	Iodine-129	pCi/L	8.0E+00		NA	
	Nitrate as nitrogen	µg/L	37,000	Y	42,000	
	Tritium	pCi/mL	8.6E+03		8.5E+03	
HSB111E	Aluminum	µg/L	400	Y	NA	
	Nonvolatile beta	pCi/L	2.5E+02		2.6E+02	
	Strontium-90	pCi/L	1.3E+02		NA	
	Tritium	pCi/mL	2.6E+02		2.4E+02	
HSB112D	Iodine-129	pCi/L	1.3E+01		NA	
	Nitrate as nitrogen	µg/L	25,000	Y	26,000	
	Tritium	pCi/mL	7.3E+03		7.7E+03	
HSB112E	Aluminum	µg/L	230	Y	NA	
	Iodine-129	pCi/L	4.9E+00		NA	
	Nitrate as nitrogen	µg/L	11,000	Y	–	
	Nonvolatile beta	pCi/L	2.4E+02		1.9E+02	
	Strontium-90	pCi/L	1.4E+02		NA	
	Tritium	pCi/mL	1.5E+03		1.1E+03	
HSB113D	Aluminum	µg/L	8,200	Y	NA	
	Bis(2-ethylhexyl) phthalate	µg/L	40	VY	NA	
	Gross alpha	pCi/L	3.8E+01		3.0E+01	
	Iodine-129	pCi/L	5.0E+01		NA	
	Nickel-63	pCi/L	1.0E+02		NA	
	Nitrate as nitrogen	µg/L	33,000	Y	350,000	Y
	Nonvolatile beta	pCi/L	1.7E+03		1.6E+03	
	Strontium-90	pCi/L	5.5E+02		NA	
	Tritium	pCi/mL	5.7E+03		4.5E+03	
HSB114D	Aluminum	µg/L	5,400	Y	NA	
	Gross alpha	pCi/L	2.8E+01		4.6E+01	
	Iodine-129	pCi/L	1.6E+02		NA	
	Nickel-63	pCi/L	8.3E+01		NA	
	Nitrate as nitrogen	µg/L	25,000	Y	560,000	
	Nonvolatile beta	pCi/L	2.0E+03		1.7E+03	
	Strontium-90	pCi/L	8.0E+02		NA	
	Tritium	pCi/mL	4.9E+03		6.0E+03	
HSB115D	Aluminum	µg/L	10,000	Y	NA	
	Cobalt-60	pCi/L	1.1E+02		NA	
	Gross alpha	pCi/L	3.0E+01		2.9E+01	
	Iodine-129	pCi/L	4.1E+01		NA	
	Lead	µg/L	72	Y	NA	
	Nickel-63	pCi/L	1.1E+02		NA	
	Nitrate as nitrogen	µg/L	32,000	Y	39,000	
	Nonvolatile beta	pCi/L	3.4E+03		2.6E+03	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
	Strontium-90	pCi/L	1.5E+03		NA	
	Tritium	pCi/mL	7.9E+03		7.1E+03	
HSB117D	Aluminum	µg/L	74	Y	NA	
	Tritium	pCi/mL	1.7E+02		6.4E+01	
HSB125D	Aluminum	µg/L	61	Y	NA	
	Iodine-129	pCi/L	3.3E+00	J3	NA	
	Mercury	µg/L	–	JY	2.9	
	Nitrate as nitrogen	µg/L	30,000	Y	23,000	
	Tin	µg/L	24	Y	NA	
	Tritium	pCi/mL	3.0E+03		2.2E+03	
HSB126D	Aluminum	µg/L	380	Y	NA	
	Iodine-129	pCi/L	2.1E+01		NA	
	Mercury	µg/L	–	JY	4.0	
	Nitrate as nitrogen	µg/L	38,000	Y	42,000	
	Tritium	pCi/mL	4.2E+03		3.8E+03	
HSB127D	Aluminum	µg/L	65	Y	NA	
	Iodine-129	pCi/L	8.4E+00		NA	
	Mercury	µg/L	–	JY	2.7	
	Nitrate as nitrogen	µg/L	17,000	Y	13,000	
	Nonvolatile beta	pCi/L	5.3E+01		–	
	Strontium-90	pCi/L	1.1E+01		NA	
	Tritium	pCi/mL	3.7E+03		1.8E+03	
HSB129D	Aluminum	µg/L	110	Y	NA	
	Nitrate as nitrogen	µg/L	26,000	Y	25,000	Y
	Tritium	pCi/mL	3.6E+03		3.6E+03	
HSB131D	Aluminum	µg/L	52	Y	NA	
HSB133D	Aluminum	µg/L	60	Y	NA	
	Tritium	pCi/mL	2.5E+01		2.3E+01	
HSB134D	Aluminum	µg/L	710	Y	NA	
	Iodine-129	pCi/L	9.3E+00		NA	
	Nitrate as nitrogen	µg/L	13,000	Y	13,000	
	Nonvolatile beta	pCi/L	1.2E+03		7.0E+02	
	Strontium-89	pCi/L	1.1E+02		NA	
	Strontium-90	pCi/L	4.0E+02		NA	
	Tritium	pCi/mL	1.3E+03		1.7E+03	
HSB135D	Aluminum	µg/L	220	Y	NA	
	Nonvolatile beta	pCi/L	8.7E+01		5.9E+01	
	Tritium	pCi/mL	8.6E+01		6.5E+01	
HSB136D	Aluminum	µg/L	3,500	Y	NA	
	Gross alpha	pCi/L	3.1E+01		–	J
	Iodine-129	pCi/L	3.2E+01		NA	
	Nickel-63	pCi/L	6.8E+01		NA	
	Nitrate as nitrogen	µg/L	23,000	Y	600,000	Y

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
	Nonvolatile beta	pCi/L	1.8E+03		1.6E+02	
	Radium-226	pCi/L	2.7E+01		NA	
	Strontium-89	pCi/L	8.9E+01		NA	
	Strontium-90	pCi/L	7.1E+02		NA	
	Tritium	pCi/mL	6.9E+03		3.7E+03	
HSB137D	Aluminum	µg/L	120	Y	NA	
	Gross alpha	pCi/L	–	J3	3.7E+01	
	Nitrate as nitrogen	µg/L	19,000	Y	500,000	Y
	Nonvolatile beta	pCi/L	2.2E+02		1.7E+03	
	Tritium	pCi/mL	4.6E+03		5.1E+03	
HSB138D	Tritium	pCi/mL	2.2E+01		4.4E+01	
HSB139D	Aluminum	µg/L	140	Y	NA	
	Tritium	pCi/mL	1.3E+03		1.1E+02	
HSB141D	Aluminum	µg/L	2,900	Y	NA	
HSB142D	Aluminum	µg/L	690	Y	NA	
	Tritium	pCi/mL	6.4E+02		2.1E+02	
HSB143D	Aluminum	µg/L	58	Y	NA	
HSB145D	Aluminum	µg/L	1,000	Y	NA	
	Gross alpha	pCi/L	3.7E+01		3.7E+01	
	Iodine-129	pCi/L	1.7E+01		NA	
	Mercury	µg/L	2.7	Y	2.1	
	Nitrate as nitrogen	µg/L	32,000	Y	34,000	
	Nonvolatile beta	pCi/L	4.2E+02		4.4E+02	
	Strontium-90	pCi/L	1.9E+02		NA	
	Tritium	pCi/mL	6.3E+03		5.7E+03	
HSB146D	Aluminum	µg/L	150	Y	NA	
	Tritium	pCi/mL	2.2E+01		2.2E+01	
HSB147D	Aluminum	µg/L	1,400	Y	NA	
HSB148D	Aluminum	µg/L	380	Y	NA	
HSB149D	Aluminum	µg/L	260	Y	NA	
	Tritium	pCi/mL	2.5E+01		2.1E+01	
HSB150D	Aluminum	µg/L	1,200	Y	NA	
	Tritium	pCi/mL	1.7E+02		2.4E+01	
HSB151D	Aluminum	µg/L	1,100	Y	NA	
	Tritium	pCi/mL	3.7E+02		1.2E+02	
HSB152D	Aluminum	µg/L	6,600	Y	NA	
	Lead	µg/L	51	Y	NA	
	Tritium	pCi/mL	3.9E+02		1.1E+02	

Aquifer Zone IIB_2 (Water Table)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSL 1D	Aluminum	µg/L	380	Y	NA	
	Tritium	pCi/mL	3.1E+02		2.1E+02	
HSL 2D	Aluminum	µg/L	91	Y	NA	
	Tritium	pCi/mL	2.2E+02		1.2E+02	
HSL 3D	Aluminum	µg/L	1,100	Y	NA	
	Tritium	pCi/mL	4.4E+01		3.8E+01	
HSL 4D	Nonvolatile beta	pCi/L	5.2E+01		7.2E+01	
	Tritium	pCi/mL	2.4E+01		2.6E+01	
HSL 5D	Tritium	pCi/mL	–		3.1E+01	
HSL 6D	Aluminum	µg/L	3,700	Y	NA	
	Nonvolatile beta	pCi/L	9.5E+01		1.2E+02	
	Strontium-90	pCi/L	3.1E+01	V	NA	
	Tritium	pCi/mL	1.1E+02		3.3E+01	
HSL 7D	Aluminum	µg/L	1,900	Y	NA	
	Tritium	pCi/mL	3.3E+01		4.3E+01	
HSL 8D	Aluminum	µg/L	300	Y	NA	
	Nitrate as nitrogen	µg/L	11,000	Y	28,000	
	Tritium	pCi/mL	1.3E+03		3.2E+03	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 68C	Nitrate as nitrogen	µg/L	11,000	Y	360,000	
	Tritium	pCi/mL	3.9E+03		3.7E+03	
HSB 70C	Nitrate as nitrogen	µg/L	26,000	Y	440,000	
	Nonvolatile beta	pCi/L	5.2E+01		–	
	Tritium	pCi/mL	4.1E+03		4.2E+03	
HSB 71C	Aluminum	µg/L	420	Y	NA	
	Nitrate as nitrogen	µg/L	33,000	Y	34,000	
	Nonvolatile beta	pCi/L	7.1E+01		1.1E+02	
	Tritium	pCi/mL	5.6E+03		5.8E+03	
HSB 84C	Aluminum	µg/L	61	Y	NA	
	Tritium	pCi/mL	4.8E+02		5.0E+02	
HSB 86C	Aluminum	µg/L	940	Y	NA	
	Gross alpha	pCi/L	2.8E+01		6.1E+01	
	Nitrate as nitrogen	µg/L	47,000	JY3	43,000	
	Nonvolatile beta	pCi/L	2.0E+03		1.8E+03	
	Tritium	pCi/mL	1.6E+04		1.5E+04	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB102C	Cadmium	µg/L	6.3	Y	NA	
	Nitrate as nitrogen	µg/L	18,000	Y	15,000	
	Tritium	pCi/mL	1.9E+02		1.9E+02	
HSB103C	Aluminum	µg/L	190	Y	NA	
	Bis(2-ethylhexyl) phthalate	µg/L	92	VY	NA	
	Iodine-129	pCi/L	3.2E+00	J	NA	
	Nitrate as nitrogen	µg/L	–	Y	16,000	
	Tritium	pCi/mL	6.7E+02		6.5E+02	
HSB104C	Aluminum	µg/L	210	Y	NA	
	Cyanide	µg/L	280	J	NA	
	Tritium	pCi/mL	2.6E+02		2.7E+02	
HSB105C	Tritium	pCi/mL	9.3E+01		9.8E+01	
HSB106C	Tritium	pCi/mL	2.8E+02		2.8E+02	
HSB107C	Tritium	pCi/mL	3.8E+02		4.1E+02	
HSB108C	Tritium	pCi/mL	2.5E+02		2.3E+02	
HSB109C	Tritium	pCi/mL	6.4E+01		6.3E+01	
HSB111C	Aluminum	µg/L	130	Y	NA	
	Nitrate as nitrogen	µg/L	13,000	Y	14,000	
	Tritium	pCi/mL	2.5E+03		2.3E+03	
HSB112C	Aluminum	µg/L	160	Y	NA	
	Tritium	pCi/mL	1.2E+03		1.2E+03	
HSB113C	Aluminum	µg/L	170	Y	NA	
	Nitrate as nitrogen	µg/L	14,000	Y	15,000	
	Tritium	pCi/mL	1.7E+03		1.8E+03	
HSB114C	Aluminum	µg/L	370	Y	NA	
	Iodine-129	pCi/L	5.5E+00		NA	
	Nitrate as nitrogen	µg/L	41,000	Y	500,000	
	Nonvolatile beta	pCi/L	1.2E+02		8.9E+01	
	Tritium	pCi/mL	9.3E+03		7.8E+03	
HSB115C	Aluminum	µg/L	180	Y	NA	
	Iodine-129	pCi/L	1.4E+01		NA	
	Nitrate as nitrogen	µg/L	33,000	Y	550,000	
	Nonvolatile beta	pCi/L	6.1E+01		1.1E+02	
	Tritium	pCi/mL	1.2E+04		1.2E+04	
HSB116C	Aluminum	µg/L	120	Y	NA	
	Iodine-129	pCi/L	2.3E+01		NA	
	Nitrate as nitrogen	µg/L	39,000	Y	34,000	
	Tritium	pCi/mL	9.5E+03		9.1E+03	

Aquifer Zone IIB_1 (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB117C	Aluminum	µg/L	680	Y	NA	
	Gross alpha	pCi/L	1.5E+01		2.1E+01	
	Iodine-129	pCi/L	6.4E+00		NA	
	Nitrate as nitrogen	µg/L	43,000	Y	51,000	
	Nonvolatile beta	pCi/L	5.7E+01		1.1E+02	
	Tin	µg/L	32	Y	NA	
	Tritium	pCi/mL	8.8E+03		8.9E+03	
HSB126C	Tritium	pCi/mL	3.9E+02		4.0E+02	
HSB127C	Tritium	pCi/mL	1.0E+03		1.0E+03	
HSB129C	Aluminum	µg/L	91	Y	NA	
	Nitrate as nitrogen	µg/L	14,000	Y	21,000	
	Tritium	pCi/mL	1.9E+03		1.9E+03	
HSB131C	Tritium	pCi/mL	1.6E+02		1.7E+02	
HSB132C	Aluminum	µg/L	79	Y	NA	
HSB134C	Tritium	pCi/mL	3.4E+01		3.3E+01	
HSB135C	Aluminum	µg/L	910	Y	NA	
	Tritium	pCi/mL	8.4E+01		7.1E+01	
HSB136C	Iodine-129	pCi/L	5.1E+00		NA	
	Nitrate as nitrogen	µg/L	31,000	Y	36,000	
	Nonvolatile beta	pCi/L	6.4E+01		9.3E+01	
	Tritium	pCi/mL	7.5E+03		8.2E+03	
HSB137C	Iodine-129	pCi/L	1.1E+01		NA	
	Nitrate as nitrogen	µg/L	48,000	Y	49,000	
	Nonvolatile beta	pCi/L	5.3E+01		1.1E+02	
	Tritium	pCi/mL	1.3E+04		1.2E+04	
HSB139C	Aluminum	µg/L	150	Y	NA	
	Nitrate as nitrogen	µg/L	37,000	Y	39,000	
	Tritium	pCi/mL	2.9E+03		2.9E+03	
HSB141C	Aluminum	µg/L	250	Y	NA	
HSB145C	Aluminum	µg/L	240	Y	NA	
	Nitrate as nitrogen	µg/L	34,000	Y	36,000	
	Nonvolatile beta	pCi/L	–		6.0E+01	
	Tritium	pCi/mL	1.8E+03		2.2E+03	
HSB148C	Aluminum	µg/L	430	Y	NA	
	pH	pH	11	JY3	11	J1
HSB151C	Aluminum	µg/L	130	Y	NA	
	Nitrate as nitrogen	µg/L	–	Y	13,000	
	Tritium	pCi/mL	2.1E+03		2.2E+03	

Aquifer Zone IIB$_1$ (Barnwell/McBean, upper portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB152C	Aluminum	µg/L	200	Y	NA	
	Nitrate as nitrogen	µg/L	–	Y	12,000	
	Nonvolatile beta	pCi/L	–		1.9E+02	
	Tritium	pCi/mL	1.3E+03		1.7E+03	
HSL 8C	Aluminum	µg/L	3,900	Y	3,000	
	pH	pH	11	J1	11	J1
	Tritium	pCi/mL	3.9E+01		2.4E+01	

Aquifer Zone IIB$_1$ (Barnwell/McBean, lower portion)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 65B	Aluminum	µg/L	76	Y	NA	
HSB 68B	Aluminum	µg/L	400	Y	NA	
	Tritium	pCi/mL	2.3E+01		2.4E+01	
HSB 84B	Aluminum	µg/L	69	Y	NA	
	Tritium	pCi/mL	4.5E+01		5.1E+01	
HSB 86B	Aluminum	µg/L	410	Y	NA	
HSL 6B	Aluminum	µg/L	95	Y	430	
HSL 8B	Aluminum	µg/L	250	V	85	

Aquifer Unit IIA (Congaree)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSB 69A	Nitrate as nitrogen	µg/L	450,000		–	
HSB 84A	Nonvolatile beta	pCi/L	–		5.3E+01	
HSB118A	Nitrate as nitrogen	µg/L	21,000	Y	20,000	
	Tritium	pCi/mL	9.0E+03		9.7E+03	
HSB119A	Tritium	pCi/mL	4.6E+02		4.6E+02	
HSB123A	Aluminum	µg/L	53	Y	NA	
	pH	pH	12	JY3	12	J1
HSB141A	Aluminum	µg/L	2,200	JY3	NA	
	pH	pH	11	JY3	12	J1
HSB144A	Tritium	pCi/mL	2.5E+02		2.3E+02	
HSL 6A	Aluminum	µg/L	120	JY3	–	J

Aquifer Unit IIA (Congaree)

Well	Constituent	Unit	3Q94	Mod	4Q94	Mod
HSL 8A	Antimony	µg/L	72	J	NA	
HSL 8AA	Aluminum	µg/L	580	Y	590	
	Lead	µg/L	–	Y	150	
	pH	pH	12	J1	13	J1

Notes: This table presents the highest value for duplicate/replicate results. The groundwater samples are unfiltered. Therefore, the results for the metals are for total recoverable metals. Flags are established by EPD/EMS and are based on final PDWS, Secondary Drinking Water Standards, or method detection limits (see Appendix B). Nitrate concentrations in several Aquifer Zone IIB_2 (Water Table) and Aquifer Zone IIB_1 (Barnwell/McBean) wells were unusually high during fourth quarter 1994 compared to previous quarters of the year. These values were confirmed by the analytical laboratory.

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

[b] – = analyzed but not above the Flag 2 criterion.

Table 3. Groundwater Monitoring Results for Individual Wells

WELL HSB 65

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72425.6 E58432.0	33.281296 °N 81.653622 °W	242.4-212.4 ft msl	272 ft msl	4" PVC	S	Water Table (UB_2)

SAMPLE DATE	07/01/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	231.5	230.9	ft msl
pH	5	4.8	pH
Sp. conductance	52	58	µS/cm
Water temperature	19.7	19.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.6	0.4	NTU
Volume purged	6.9	3.9	well volumes
Sampling code			
Synchronous water level	231.2 (09/28/94)	232.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	12	1	JY			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	0.24	1	J			0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	52	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,600	5	Y			0	WA	3,000	2				0	GE	µg/L
pH	6.0	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 65 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1	J3			0	GP	9.2E-01	1	J			0	GP	pCi/L
Nonvolatile beta	8.3E-01	1	UI			0	GP	8.1E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.0E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 65A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72436.2 E58436.0	33.281326 °N 81.653633 °W	73.2-62.5 ft msl	273.6 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE	07/01/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	170.7	170.7	ft msl
pH	7.6	7.4	pH
Sp. conductance	228	233	µS/cm
Water temperature	20.3	19.8	°C
Alkalinity as $CaCO_3$	90	86	mg/L
Turbidity	0.6	0.5	NTU
Volume purged	3.2	2.6	well volumes
Sampling code			
Synchronous water level	170.6 (09/28/94)	171.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	32	1	Y			1	WA								µg/L
Nitrate as nitrogen	24	1	Y			0	WA	<200	4				0	GE	µg/L
pH	6.9	1	JY3		•	0	WA	7.5	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 65A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.5E-01	1	UI			0	GP	6.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.3E+00	1	J3			0	GP	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.1E+00	1				0	GP	1.8E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 65B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72445.6 E58439.4	33.281352 °N 81.653642 °W	133.3-123.3 ft msl	273.7 ft msl	4" PVC	S	McBean (IIB_1)

SAMPLE DATE	07/01/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	223.5	223.3	ft msl
pH	7.9	7.5	pH
Sp. conductance	211	219	µS/cm
Water temperature	20	19.3	°C
Alkalinity as $CaCO_3$	88	84	mg/L
Turbidity	3.6	2.1	NTU
Volume purged	2.8	3.0	well volumes
Sampling code			
Synchronous water level	223.1 (09/28/94)	224.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	76	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	69	1	Y			0	WA	63	1	J			0	GE	µg/L
pH	6.1	1	JY3	■	●	0	WA	8.0	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 65B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	-3.9E-01	1	UI			0	GP	6.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	4.9E-01	1	UI			0	GP	3.2E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	5.2E-01	1	UI			0	GP	6.5E-02	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 65C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72439.6 E58447.1	33.281351 °N 81.653610°W	218.6-207.8 ft msl	273.6 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/01/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	231.8	231.2	ft msl
pH	5.2	5	pH
Sp. conductance	64	74	µS/cm
Water temperature	20.8	19.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.5	NTU
Volume purged	5.2	3.1	well volumes
Sampling code			
Synchronous water level	231.4 (09/28/94)	232.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	43	1	Y			1	WA								µg/L
Nitrate as nitrogen	3,700	5	Y			0	WA	3,700	4				0	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 65C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+00	1	J3			0	GP	5.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.5E+00	1	UI			0	GP	4.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	2.8E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 66

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72429.2 E56928.3	33.278850 °N 81.657589 °W	228.1-198.1 ft msl	280.2 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE 07/01/94 10/04/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	224.5	223.5	ft msl
pH	5.4	5.1	pH
Sp. conductance	39	40	µS/cm
Water temperature	20.1	19	°C
Alkalinity as $CaCO_3$	1	0	mg/L
Turbidity	1.3	0.9	NTU
Volume purged	9.5	10	well volumes
Sampling code			
Synchronous water level	223.7 (09/28/94)	224.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	100	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	1,900	5	Y			0	WA	1,800	1				0	GE	µg/L
pH	5.8	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 66 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E+00	1	J3			0	GP	1.8E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.2E+01	1		■		2	GP	2.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 67

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71505.0 E58424.3	33.279247 °N 81.651855 °W	230.7-200.7 ft msl	237.8 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/04/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	222.3	222.1	ft msl
pH	4.3	4.1	pH
Sp. conductance	117	110	µS/cm
Water temperature	20.1	19.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.4	0.4	NTU
Volume purged	2.3	2.5	well volumes
Sampling code			
Synchronous water level	222.1 (09/28/94)	223.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	1.4	1	Y			1	WA	1.3	1				1	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,700	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	8,000	20	Y			1	WA	6,100	10				1	GE	µg/L
pH	4.7	1	JY3	■	●	0	WA	4.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 67 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+01	1		■		2	GP	1.4E+01	1				1	GP	pCi/L
Nonvolatile beta	1.4E+03	1		■		2	GP	1.2E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.3E+03	1		■		2	GP	1.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 68

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71528.0 E56901.0	33.276813 °N 81.655911 °W	243.3-213.3 ft msl	250.1 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation			ft msl
pH			pH
Sp. conductance			µS/cm
Water temperature			°C
Alkalinity as $CaCO_3$			mg/L
Turbidity			NTU
Volume purged			well volumes
Sampling code			
Synchronous water level	220.3 (09/28/94)	220.9 (10/14/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene															
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

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

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 68 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha															
Nonvolatile beta															

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 68A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71526.9 E56892.1	33.276796 °N 81.655932 °W	58.0-47.5 ft msl	249.4 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE	07/04/94	10/05/94
FIELD DATA		
Water elevation	171.4	171.1 ft msl
pH	6.8	7 pH
Sp. conductance	152	153 µS/cm
Water temperature	19.8	19.2 °C
Alkalinity as $CaCO_3$	51	52 mg/L
Turbidity	0.8	0.3 NTU
Volume purged	2.6	1.2 well volumes
Sampling code		
Synchronous water level	171.1 (09/28/94)	172.0 (12/21/94) ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

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

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 68A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.3E-01	1	UI			0	GP	2.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.5E+00	1				0	GP	3.5E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E+00	1				0	GP	1.9E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 68B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71525.5 E56882.1	33.276776 °N 81.655956·°W	134.5-123.5 ft msl	250 ft msl	4" PVC	S	McBean (IIB_1)

SAMPLE DATE	07/05/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	216.1	215.9	ft msl
pH	7.7	7.6	pH
Sp. conductance	252	251	µS/cm
Water temperature	20.1	18.5	°C
Alkalinity as $CaCO_3$	108	101	mg/L
Turbidity	56.1	24.7	NTU
Volume purged	0.86	0.83	well volumes
Sampling code	X	X	
Synchronous water level	215.8 (09/28/94)	216.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	5.9	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	240	1	Y			0	WA	260	1				0	GE	µg/L
pH	7.1	1	JY3		•	0	WA	7.9	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 68B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E-02	1	UI			0	GP	1.4E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.2E+00	1	J3			0	GP	4.3E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.3E+01	1		■		2	GP	2.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 68C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71524.1 E56872.7	33.276758 °N 81.655978 °W	179.5-168.4 ft msl	250.1 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/05/94	10/05/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	216.8	216.6	ft msl
pH	5.3	5.9	pH
Sp. conductance	155	141	µS/cm
Water temperature	20.6	17.8	°C
Alkalinity as $CaCO_3$	2	8	mg/L
Turbidity	1.6	4.8	NTU
Volume purged	0.72	0.70	well volumes
Sampling code	X	X	
Synchronous water level	216.6 (09/28/94)	217.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	14	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.90	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	44	1	Y			1	WA								µg/L
Nitrate as nitrogen	11,000	25	Y	■		2	WA	360,000	800		■		2	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	5.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 68C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.2E-01	1	UI			0	GP	9.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.1E+01	1				0	GP	5.9E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.9E+03	1		■		2	GP	3.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 69

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71546.9 E56475.1	33.276160 °N 81.657069 °W	229.0-199.0 ft msl	236 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/01/94	10/05/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	218.3	218.2	ft msl
pH	4.3	3.9	pH
Sp. conductance	104	98	µS/cm
Water temperature	21.5	21	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.4	1.1	NTU
Volume purged	3.2	3.3	well volumes
Sampling code			
Synchronous water level	218.1 (09/28/94)	218.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,100	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	8,900	20	Y			1	WA	5,600	4				1	GE	µg/L
pH	4.5	1	JY3	■	●	0	WA	4.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 69 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.7E+00	1				1	GP	4.1E+00	1				0	GP	pCi/L
Nonvolatile beta	1.6E+03	1		■		2	GP	1.4E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	8.3E+01	1		■		2	GP	6.6E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 69A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71549.4 E56465.1	33.276149 °N 81.657100 °W	93.1-83.1 ft msl	236.6 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE	07/01/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	171.6	171.5	ft msl
pH	6.8	6.7	pH
Sp. conductance	174	182	µS/cm
Water temperature	19.3	19.4	°C
Alkalinity as $CaCO_3$	63	61	mg/L
Turbidity	0.6	0.9	NTU
Volume purged	4.6	3.3	well volumes
Sampling code			
Synchronous water level	171.4 (09/28/94)	171.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	450,000	800		■		2	GE	<50	1				0	GE	µg/L
pH	7.2	1	JY3		•	0	WA	5.8	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

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

Note: See 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 69A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.4E+00	1				0	TM	7.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.8E+00	1				0	TM	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.4E-01	1	J3			0	GP	3.0E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 70

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72606.9 E55758.9	33.277336 °N 81.661013 °W	235.7-205.7 ft msl	242.8 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/04/94	10/05/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	221.5	221.4	ft msl
pH	5.4	5.4	pH
Sp. conductance	69	70	µS/cm
Water temperature	19.5	18.1	°C
Alkalinity as $CaCO_3$	1	1	mg/L
Turbidity	1.6	1.3	NTU
Volume purged	5.4	8.3	well volumes
Sampling code			
Synchronous water level	221.4 (09/28/94)	223.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.8	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	33	1	Y			0	WA	580	1				0	GE	µg/L
pH	5.4	1	JY3	■	●	0	WA	6.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 70 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E+00	1	J3			0	GP	5.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+01	1				0	GP	1.2E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.8E+01	1		■		2	GP	4.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 70C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72597.3 E55757.1	33.277311 °N 81.660999 °W	174.9-164.9 ft msl	243.1 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/05/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.0	220.8	ft msl
pH	9.9	11.3	pH
Sp. conductance	337	582	µS/cm
Water temperature	19.8	17.4	°C
Alkalinity as $CaCO_3$	16	64	mg/L
Turbidity	1.7	3	NTU
Volume purged	0.73	0.71	well volumes
Sampling code	X	X	
Synchronous water level	220.9 (09/28/94)	222.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	110	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.09	JY3		•	0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY1			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<51	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	48	1	Y3			1	WA								µg/L
Nitrate as nitrogen	26,000	100	Y	■		2	WA	440,000	1000		■		2	GE	µg/L
pH	9.9	1	JY3	■	•	1	WA	9.7	1	J1	■	•	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<5.0	1	VY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 70C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.6E+00	1				0	GP	4.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	5.2E+01	1		■		2	GP	4.4E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	6.2E-02	1	UI			0	GP								pCi/L
Cobalt-60	5.8E-02	1	UI			0	GP								pCi/L
Curium-242	-3.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-8.9E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	8.9E-01	1	UI			0	GP								pCi/L
Plutonium-238	-2.7E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	4.2E-03	1	UI			0	GP								pCi/L
Radium-226	1.9E+00	1				0	GP								pCi/L
Radium-228	1.5E+00	1	J			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	8.5E-01	1	UI			0	GP								pCi/L
Technetium-99	1.8E+02	1				0	GP								pCi/L
Thorium-228	1.7E-02	1	UI			0	GP								pCi/L
Thorium-230	4.4E-02	1	UI			0	GP								pCi/L
Thorium-232	3.4E-03	1	UI			0	GP								pCi/L
Thorium-234	7.8E+01	1	UI			0	GP								pCi/L
Tritium	4.1E+03	1		■		2	GP	4.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.9E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.7E-04					0									pCi/L
Nickel-63	5.8E-02					0									pCi/L
Plutonium-241	1.7E-02					0									pCi/L
Plutonium-242	8.4E-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 HSB 71

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72875.9 E55279.2	33.277148 °N 81.662799°W	234.8-204.8 ft msl	241.4 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/13/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.4	224.4	ft msl
pH	5.1	5.3	pH
Sp. conductance	32	38	µS/cm
Water temperature	17.9	19.9	°C
Alkalinity as $CaCO_3$	1	2	mg/L
Turbidity	2	2.2	NTU
Volume purged	14	19	well volumes
Sampling code			
Synchronous water level	221.1 (09/28/94)	223.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	15	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	32	1	Y			1	WA								µg/L
Nitrate as nitrogen	750	1	Y			0	WA	62	1	J			0	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 71 (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E-01	1	UI			0	GP	1.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.6E+00	1	J3			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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+02	1		■		2	GP	3.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 71C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72866.6 E55281.5	33.277131 °N 81.662775 °W	181.9-171.9 ft msl	241.6 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/13/94	10/19/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	220.6	222.7	ft msl
pH	7.8	7.7	pH
Sp. conductance	423	471	µS/cm
Water temperature	18.5	18.1	°C
Alkalinity as $CaCO_3$	45	52	mg/L
Turbidity	2.2	2.7	NTU
Volume purged	0.72	0.69	well volumes
Sampling code	X	X	
Synchronous water level	220.2 (09/28/94)	222.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	420	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	33,000	50	Y	■		2	WA	34,000	40		■		2	GE	µg/L
pH	7.3	1	JY3		●	0	WA	7.9	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 71C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.5E+00	1				0	GP	1.3E+01	1				1	GP	pCi/L
Nonvolatile beta	7.1E+01	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	5.6E+03	1		■		2	GP	5.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71648.6 E58606.1	33.279861 °N 81.651655 °W	76.0-65.2 ft msl	237.3 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE	07/05/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	172.7	172.5	ft msl
pH	7	6.9	pH
Sp. conductance	206	210	µS/cm
Water temperature	19.6	19.3	°C
Alkalinity as $CaCO_3$	69	71	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.1	4.2	well volumes
Sampling code			
Synchronous water level	172.5 (09/28/94)	172.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.1	1	JY3		•	0	WA	7.2	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.5E+00	1				1	GP	3.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.1E+01	1				0	GP	7.9E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.7E-01	1	UI			0	GP	3.3E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71639.6 E58594.9	33.279823 °N 81.651667 °W	132.1-121.2 ft msl	237 ft msl	4" PVC	S	McBean (IIB_1)

SAMPLE DATE	07/05/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.9	221.6	ft msl
pH	6.8	6.8	pH
Sp. conductance	125	128	µS/cm
Water temperature	19.4	19.2	°C
Alkalinity as $CaCO_3$	33	41	mg/L
Turbidity	0.4	0.4	NTU
Volume purged	2.9	2.7	well volumes
Sampling code			
Synchronous water level	221.6 (09/28/94)	222.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	4.5	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	48	1	Y			1	WA								µg/L
Nitrate as nitrogen	40	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.0	1	JY3		•	0	WA	7.1	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E-01	1	UI			0	GP	3.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	8.4E-01	1	UI			0	GP	4.3E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.8E+00	1				0	GP	2.9E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71636.9 E58614.8	33.279849 °N 81.651609°°W	171.2-160.2 ft msl	237.1 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/05/94	10/04/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	223.3	223.6	ft msl
pH	5	5.2	pH
Sp. conductance	26	26	µS/cm
Water temperature	19.5	19.3	°C
Alkalinity as $CaCO_3$	1	1	mg/L
Turbidity	0.3	0.9	NTU
Volume purged	3.3	3.3	well volumes
Sampling code			
Synchronous water level	223.5 (09/28/94)	224.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	24	1	Y			0	WA								µg/L
Nitrate as nitrogen	58	1	Y			0	WA	60	1	J			0	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E-01	1	UI			0	GP	3.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.7E-01	1	UI			0	GP	5.4E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	4.2E-01	1	UI			0	GP	7.9E-01	1	J			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71628.1 E58601.7	33.279809 °N 81.651627 °W	228.7-198.7 ft msl	237 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/05/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	223.6	223.4	ft msl
pH	5.1	5.1	pH
Sp. conductance	80	85	µS/cm
Water temperature	20.1	20.7	°C
Alkalinity as $CaCO_3$	1	0	mg/L
Turbidity	0.4	0.9	NTU
Volume purged	6.8	5.8	well volumes
Sampling code			
Synchronous water level	223.2 (09/28/94)	224.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	2.1	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	8.7	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.34	1	JY			0	WA	0.31	1	J			0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	170	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	5,600	10	Y			1	WA	5,300	4				1	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 83D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.2E+00	1	J3			0	GP	2.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	4.7E+01	1				1	GP	4.3E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.1E+02	1		■		2	GP	4.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 84A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71586.2 E56359.1	33.276057 °N 81.657450°W	75.9-64.7 ft msl	228.7 ft msl	4" PVC	V	L. Congaree (IIA)

SAMPLE DATE	07/01/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	171.3	171.2	ft msl
pH	6.4	6.3	pH
Sp. conductance	120	124	µS/cm
Water temperature	21.4	20.1	°C
Alkalinity as $CaCO_3$	36	33	mg/L
Turbidity	0.1	0.3	NTU
Volume purged	2.2	2.1	well volumes
Sampling code			
Synchronous water level	171.0 (09/28/94)	171.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	67	1	J			0	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	6.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 84A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1	J3			0	GP	1.2E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	4.9E+01	1				1	GP	5.3E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.6E+01	1				1	GP	1.4E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 84B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71603.3 E56352.4	33.276084 °N 81.657501 °W	132.9-121.8 ft msl	228.9 ft msl	4" PVC	S	McBean (IIB_1)

SAMPLE DATE	07/05/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	209.9	209.9	ft msl
pH	9.2	9.3	pH
Sp. conductance	147	146	µS/cm
Water temperature	19.9	19.3	°C
Alkalinity as $CaCO_3$	49	47	mg/L
Turbidity	2.4	2.1	NTU
Volume purged	0.76	0.88	well volumes
Sampling code	X	X	
Synchronous water level	209.9 (09/28/94)	210.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	69	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	760	1	Y			0	WA	830	1				0	GE	µg/L
pH	8.7	1	JY3	■	●	1	WA	9.4	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 84B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.5E-01	1	UI			0	GP	2.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.7E+00	1				0	GP	5.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	4.5E+01	1		■		2	GP	5.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 84C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71597.1 E56360.1	33.276083 °N 81.657469 °W	181.8-170.9 ft msl	229.1 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/05/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	212.8	212.6	ft msl
pH	6.7	6.6	pH
Sp. conductance	95	96	µS/cm
Water temperature	19.6	19.5	°C
Alkalinity as $CaCO_3$	20	17	mg/L
Turbidity	0.6	0.4	NTU
Volume purged	0.62	0.55	well volumes
Sampling code	X	X	
Synchronous water level	212.6 (09/28/94)	213.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	9.9	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	61	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,400	10	Y			0	WA	2,100	2				0	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	7.0	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 84C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E-01	1	UI			0	GP	4.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.1E+00	1	J3			0	GP	4.3E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	5.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 84D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71583.9 E56349.9	33.276037 °N 81.657470 °W	219.5-199.5 ft msl	228.8 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/04/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	217.9	217.8	ft msl
pH	4.4	4.3	pH
Sp. conductance	65	61	µS/cm
Water temperature	20.1	20.2	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.1	NTU
Volume purged	2.8	3.1	well volumes
Sampling code			
Synchronous water level	217.7 (09/28/94)	218.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable															
Barium, total recoverable															
Cadmium, total recoverable															
Chromium, total recoverable															
Lead, total recoverable															
Lindane	<0.055	1.1	JY3		•	0	WA								µg/L
Mercury, total recoverable								<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable															

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable															
Nitrate as nitrogen	3,100	10	JY3		•	0	WA	2,300	4				0	GE	µg/L
pH	4.5	1	JY3	■	•	0	WA	4.9	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 84D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.4E+00	1	J3			0	GP	2.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.9E+02	1		■		2	GP	2.2E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	6.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	9.5E+00	1	UI			0	GP								pCi/L
Curium-242	-1.2E-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	1.3E+00	1	UI			0	GP								pCi/L
Plutonium-238	-1.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	5.3E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+00	1	J			0	GP								pCi/L
Radium-228	9.4E-01	1	UI			0	GP								pCi/L
Strontium-89															
Strontium-90	1.6E+02	1		■		2	GP								pCi/L
Technetium-99	1.1E+02	1				0	GP								pCi/L
Thorium-228	3.2E-02	1	UI			0	GP								pCi/L
Thorium-230	4.7E-02	1	UI			0	GP								pCi/L
Thorium-232	4.7E-02	1	UI			0	GP								pCi/L
Thorium-234	8.1E+01	1	UI			0	GP								pCi/L
Tritium	3.2E+02	1		■		2	GP	2.8E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.5E-01	1	UI			0	GP								pCi/L
Uranium-235	-2.5E-02	1	UI			0	GP								pCi/L
Uranium-238	3.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.4E-04					0									pCi/L
Nickel-63	9.5E+00					0									pCi/L
Plutonium-241	2.1E-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 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	07/05/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	168.3	168.5	ft msl
pH	7	6.9	pH
Sp. conductance	197	201	µS/cm
Water temperature	20.5	19.8	°C
Alkalinity as $CaCO_3$	58	75	mg/L
Turbidity	0.1	0.2	NTU
Volume purged	2.9	2.2	well volumes
Sampling code			
Synchronous water level	167.9 (09/29/94)	168.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.4	1	JY3		•	0	WA	7.1	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 85A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.8E-01	1	UI			0	GP	2.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	1.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E-01	1	UI			0	GP	3.2E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 85B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73789.3 E58953.3	33.285162 °N 81.654898 °W	143.2-133.2 ft msl	294.5 ft msl	4" PVC	S	McBean (IIB_1)

SAMPLE DATE	07/06/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	232.7	232.3	ft msl
pH	8.3	11.7	pH
Sp. conductance	221	496	µS/cm
Water temperature	20.5	18.9	°C
Alkalinity as $CaCO_3$	76	102	mg/L
Turbidity	1	1.8	NTU
Volume purged	0.78	0.77	well volumes
Sampling code	X	X	
Synchronous water level	242.0 (09/29/94)	232.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	8.7	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	26	1	Y			1	WA								µg/L
Nitrate as nitrogen	25	1	Y			0	WA	790	1				0	GE	µg/L
pH	7.4	1	JY3		•	0	WA	9.4	1	J1	■	•	1	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 85B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.4E-01	1	UI			0	GP	9.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	7.8E-01	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	7.1E-02	1	UI			0	GP	2.5E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 85C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73802.3 E58947.4	33.285182 °N 81.654939 °W	224.2-214.2 ft msl	294.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/05/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	238.1	237.8	ft msl
pH	4.5	4.7	pH
Sp. conductance	39	39	µS/cm
Water temperature	21	20.1	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.3	NTU
Volume purged	7.5	6.3	well volumes
Sampling code			
Synchronous water level	237.6 (09/29/94)	238.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	44	1	Y			1	WA								µg/L
Nitrate as nitrogen	2,000	10	Y			0	WA	2,700	2				0	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 85C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.8E+00	1	J3			0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.8E+00	1	J3			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.8E+00	1				0	GP	6.8E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 86A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72520.2 E55985.9	33.277514 °N 81.660247 °W	73.9-63.1 ft msl	262.4 ft msl	4" PVC	S	L. Congaree (IIA)

SAMPLE DATE	07/04/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	168.2	168.0	ft msl
pH	6.5	6.2	pH
Sp. conductance	143	145	µS/cm
Water temperature	20.2	20.1	°C
Alkalinity as $CaCO_3$	40	34	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	4.1	2.5	well volumes
Sampling code			
Synchronous water level	167.9 (09/28/94)	168.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	48	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.5	1	JY3	■	●	0	WA	6.8	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See 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 86A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.2E-01	1	UI			0	GP	8.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.2E+00	1	J3			0	GP	2.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	7.4E-01	1	J3			0	GP	2.2E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 86B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72519.0 E55976.9	33.277497 °N 81.660269 °W	124.0-113.8 ft msl	261.9 ft msl	4" PVC	S	McBean (llB_1)

SAMPLE DATE	07/04/94	10/05/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	219.9	219.6	ft msl
pH	7.4	7.1	pH
Sp. conductance	232	235	µS/cm
Water temperature	21	21	°C
Alkalinity as $CaCO_3$	89	92	mg/L
Turbidity	0.7	0.3	NTU
Volume purged	2.2	2.2	well volumes
Sampling code			
Synchronous water level	219.5 (09/28/94)	220.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	43	1	JY			1	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	410	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	550	1	Y			0	WA	51	1	J			0	GE	µg/L
pH	6.9	1	JY3		•	0	WA	7.5	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 86B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.7E-01	1	UI			0	GP	2.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	9.7E-01	1	UI			0	GP	2.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.5E+00	1				0	GP	1.1E+00	1	J			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 86C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72529.7 E55984.6	33.277533 °N 81.660269 °W	199.4-189.4 ft msl	262.9 ft msl	4" PVC	V	Barnwell (IIB_1)

SAMPLE DATE	07/04/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.9	221.2	ft msl
pH	4.4	4.1	pH
Sp. conductance	454	434	µS/cm
Water temperature	21.1	21.4	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.1	0.1	NTU
Volume purged	3.4	2.6	well volumes
Sampling code			
Synchronous water level	221.2 (09/28/94)	222.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	4.5	1	Y			1	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	940	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	47,000	200	JY3	■	●	2	WA	43,000	40		■		2	GE	µg/L
pH	4.4	1	JY3	■	●	0	WA	5.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See 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 86C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.8E+01	1		■		2	GP	6.1E+01	1		■		2	GP	pCi/L
Nonvolatile beta	2.0E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.6E+04	1		■		2	GP	1.5E+04	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 86D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72522.1 E55996.5	33.277536 °N 81.660223 °W	236.6-206.6 ft msl	263 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/04/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.5	220.4	ft msl
pH	3.9	3.6	pH
Sp. conductance	372	399	µS/cm
Water temperature	20.6	21.7	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.6	1.4	NTU
Volume purged	3.4	3.6	well volumes
Sampling code			
Synchronous water level	221.2 (09/28/94)	222.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	35,000	200	JY3	■	●	2	WA	37,000	20		■		2	GE	µg/L
pH	4.0	1	JY3	■	●	1	WA	4.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB 86D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E+01	1		■		2	GP	7.5E+01	1		■		2	GP	pCi/L
Nonvolatile beta	1.5E+03	1		■		2	GP	2.5E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.2E+04	1		■		2	GP	8.3E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB100C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72077.2 E58806.5	33.281136 °N 81.651960 °W	163.0-153.0 ft msl	260.2 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/05/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	225.5	225.5	ft msl
pH	5.7	5.5	pH
Sp. conductance	37	39	µS/cm
Water temperature	20.6	20	°C
Alkalinity as $CaCO_3$	4	1	mg/L
Turbidity	0.2	0.4	NTU
Volume purged	4.9	2.9	well volumes
Sampling code			
Synchronous water level	225.4 (09/28/94)	226.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	<4.0	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.09	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	11	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	25	1	Y			1	WA								µg/L
Nitrate as nitrogen	120	1	Y			0	WA	130	1				0	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB100C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E-01	1	UI			0	GP	2.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	-4.1E-01	1	UI			0	GP	3.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.4E-02	1	UI			0	GP								pCi/L
Cobalt-60	5.3E-01	1	UI			0	GP								pCi/L
Curium-242	-3.7E-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	-6.1E-01	1	UI			0	GP								pCi/L
Plutonium-238	-4.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-3.1E-02	1	UI			0	GP								pCi/L
Radium-226	2.6E-01	1	UI			0	GP								pCi/L
Radium-228	1.1E+00	1	J			0	GP								pCi/L
Strontium-89	1.7E-01	1	UI			0	GP								pCi/L
Strontium-90	1.0E-02	1	UI			0	GP								pCi/L
Technetium-99	-7.2E+00	1	UI			0	GP								pCi/L
Thorium-228	2.2E-02	1	UI			0	GP								pCi/L
Thorium-230	1.3E-01	1	UI			0	GP								pCi/L
Thorium-232	-6.5E-03	1	UI			0	GP								pCi/L
Thorium-234	7.7E+01	1	UI			0	GP								pCi/L
Tritium	2.4E+00	1				0	GP	1.4E+00	1				0	GP	pCi/mL
Uranium-233/234	3.5E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	3.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.4E-05					0									pCi/L
Nickel-63	5.3E-01					0									pCi/L
Plutonium-241	-1.2E-01					0									pCi/L
Plutonium-242	-6.2E-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 HSB100D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72073.8 E58796.9	33.281113 °N 81.651978 °W	236.9-216.9 ft msl	260.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/05/94	10/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	232.4	232.1	ft msl
pH	5.3	5.2	pH
Sp. conductance	111	85	µS/cm
Water temperature	21.9	20.5	°C
Alkalinity as $CaCO_3$	3	1	mg/L
Turbidity	4	2.3	NTU
Volume purged	3.2	4.6	well volumes
Sampling code			
Synchronous water level	232.2 (09/28/94)	233.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	18	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	6.6	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	33	1	Y			0	WA								µg/L
Cyanide	<5.0	1	J			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	95	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	79	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	6,000	10	Y			1	WA	4,900	4				0	GE	µg/L
pH	5.6	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB100D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+00	1	J3			0	GP	2.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	5.0E+01	1				2	GP	3.8E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	7.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.3E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	2.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	-6.9E-03	1	UI			0	GP								pCi/L
Iodine-129	1.6E+00	1	UI			0	GP								pCi/L
Plutonium-238	-2.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	3.2E-02	1	UI			0	GP								pCi/L
Radium-226	9.3E-01	1	UI			0	GP								pCi/L
Radium-228	1.7E+00	1				0	GP								pCi/L
Strontium-89	4.4E-01	1	UI			0	GP								pCi/L
Strontium-90	1.5E+01	1		■		2	GP								pCi/L
Technetium-99	4.2E+01	1	UI			0	GP								pCi/L
Thorium-228	4.1E-02	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	3.3E+01	1	UI			0	GP								pCi/L
Tritium	4.1E+02	1		■		2	GP	5.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234	9.3E-02	1	UI			0	GP								pCi/L
Uranium-235	-8.1E-03	1	UI			0	GP								pCi/L
Uranium-238	3.4E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.5E-05					0									pCi/L
Nickel-63	1.3E+00					0									pCi/L
Plutonium-241	1.3E-01					0									pCi/L
Plutonium-242	6.3E-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 HSB101C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72001.9 E58604.4	33.280640 °N 81.652346 °W	176.3-166.3 ft msl	258.5 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/06/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	224.4	224.2	ft msl
pH	6	5.8	pH
Sp. conductance	55	51	µS/cm
Water temperature	20.3	20.4	°C
Alkalinity as $CaCO_3$	10	8	mg/L
Turbidity	0.3	0.8	NTU
Volume purged	6.9	3.2	well volumes
Sampling code			
Synchronous water level	224.3 (09/28/94)	225.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable	14	1				0	GE								µg/L
Cadmium, total recoverable	<2.0	1				0	GE								µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<3.0	1				0	GE								µg/L
Lindane	<0.055	1.1	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1				0	GE	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1				0	GE								µg/L
Silver, total recoverable	<2.0	1				0	GE								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<2.0	1				0	GE								µg/L
Benzene	<1.0	1				0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	<4.0	1				0	GE								µg/L
Cyanide	<5.0	1				0	GE								µg/L
Nickel, total recoverable	<4.0	1				0	GE								µg/L
Tin, total recoverable	<2.0	1				0	GE								µg/L
Trichloroethylene	<1.0	1				0	GE								µg/L
Trichlorofluoromethane	<1.0	1				0	GE								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	19	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	24	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,100	1				0	GE	510	1				0	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	4.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<1.0	1				0	GE								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB101C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E-01	1	UI			0	GP	-9.6E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	2.6E+00	1				0	TM	1.4E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	2.9E-01	1				0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN								pCi/L
Curium-242	0.0E+00	1	UI			0	CN								pCi/L
Curium-243/244	8.3E-03	1	UI			0	GP								pCi/L
Curium-245/246	3.7E-01	1				0	CN								pCi/L
Iodine-129	1.0E-02	1	UI			0	GP								pCi/L
Plutonium-238	-1.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-6.2E-02	1	UI			0	CN								pCi/L
Radium-226	1.4E-01	1	J1			0	TM								pCi/L
Radium-228	2.0E+00	1				0	GP								pCi/L
Strontium-89	-1.6E-01	1	UI			0	GP								pCi/L
Strontium-90	1.4E+00	1	V			0	CN								pCi/L
Technetium-99	2.3E+00	1	UJI			0	CN								pCi/L
Thorium-228	5.5E-02	1	UI			0	GP								pCi/L
Thorium-230	2.6E+00	1	JV			0	CN								pCi/L
Thorium-232	-9.3E-03	1	UI			0	GP								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN								pCi/L
Tritium	1.6E+01	1				1	GP	7.7E+00	1				0	GP	pCi/mL
Uranium-233/234	-2.0E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	CN								pCi/L
Uranium-238	-2.1E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.5E-05					0									pCi/L
Nickel-63	0.0E+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 HSB101D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71997.5 E58594.8	33.280614 °N 81.652362 °W	236.1-216.1 ft msl	258.7 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/06/94	10/07/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	229.4	229.2	ft msl
pH	8.7	7	pH
Sp. conductance	951	802	µS/cm
Water temperature	20.2	19	°C
Alkalinity as $CaCO_3$	159	113	mg/L
Turbidity	0.5	31.2	NTU
Volume purged	0.58	2.0	well volumes
Sampling code	X	X	
Synchronous water level	229.2 (09/28/94)	230.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	55	1	Y	■		2	WA								µg/L
Barium, total recoverable	<4.0	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.054	1.08	Y			0	WA								µg/L
Mercury, total recoverable	5.7	1	JY3	■		2	WA	4.0	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	JY1			0	WA								µg/L
Silver, total recoverable	<2.0	1	JY3			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	220	2	J	■		2	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	1.2	1	JY			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	220	1	Y	■		2	WA								µg/L
Zinc, total recoverable	<18	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	220	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	12,000	20	Y	■		2	WA	400,000	800		■		2	GE	µg/L
pH	7.4	1	JY3		•	0	WA	7.5	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB101D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.6E+00	1				0	GP	5.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.6E+01	1				1	GP	3.3E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	4.8E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.6E+00	1	UI			0	GP								pCi/L
Curium-242	-9.0E-03	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	7.8E+00	1		■		2	GP								pCi/L
Plutonium-238	8.8E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	5.2E-02	1	UI			0	GP								pCi/L
Radium-226	1.2E+00	1	J			0	GP								pCi/L
Radium-228	3.2E-01	1	UI			0	GP								pCi/L
Strontium-89	-9.0E-02	1	UI			0	GP								pCi/L
Strontium-90	7.6E+00	1				1	GP								pCi/L
Technetium-99	1.4E+02	1				0	GP								pCi/L
Thorium-228	-1.9E-02	1	UI			0	GP								pCi/L
Thorium-230	9.9E-02	1	UI			0	GP								pCi/L
Thorium-232	2.9E-02	1	UI			0	GP								pCi/L
Thorium-234	1.8E+01	1	UI			0	GP								pCi/L
Tritium	1.4E+04	1		■		2	GP	1.4E+04	1		■		2	GP	pCi/mL
Uranium-233/234	3.3E+00	1				0	GP								pCi/L
Uranium-235	2.0E-01	1	UI			0	GP								pCi/L
Uranium-238	3.3E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.0E-05					0									pCi/L
Nickel-63	1.6E+00					0									pCi/L
Plutonium-241	2.1E-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 HSB102C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71960.1 E58399.7	33.280213 °N 81.652803·°W	176.7-166.7 ft msl	259 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/06/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	223.1	223.4	ft msl
pH	5.9	5.8	pH
Sp. conductance	187	200	µS/cm
Water temperature	20.7	20	°C
Alkalinity as $CaCO_3$	10	6	mg/L
Turbidity	0.6	0.3	NTU
Volume purged	3.9	4.1	well volumes
Sampling code			
Synchronous water level	223.4 (09/28/94)	224.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	26	1	Y			0	WA								µg/L
Cadmium, total recoverable	6.3	1	Y			2	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	Y			0	WA								µg/L
Mercury, total recoverable	0.42	1	JY			0	WA	0.58	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	J			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	17	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	31	1	Y			1	WA								µg/L
Nitrate as nitrogen	18,000	50	Y	■		2	WA	15,000	20		■		2	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	6.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB102C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.4E+00	1	J3			0	GP	2.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	5.6E+00	1				0	GP	5.2E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	5.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	3.8E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-1.6E-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	-1.9E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.8E-02	1	UI			0	GP								pCi/L
Radium-226	2.8E-01	1	UI			0	GP								pCi/L
Radium-228	6.1E-01	1	UI			0	GP								pCi/L
Strontium-89	3.3E-01	1	UI			0	GP								pCi/L
Strontium-90	-1.0E-02	1	UI			0	GP								pCi/L
Technetium-99	2.7E+01	1	J			0	GP								pCi/L
Thorium-228	5.6E-02	1	UI			0	GP								pCi/L
Thorium-230	1.2E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.4E-02	1	UI			0	GP								pCi/L
Thorium-234	1.3E+02	1	UI			0	GP								pCi/L
Tritium	1.9E+02	1		■		2	GP	1.9E+02	1		■		2	GP	pCi/mL
Uranium-233/234	4.5E-02	1	UI			0	GP								pCi/L
Uranium-235	-8.6E-03	1	UI			0	GP								pCi/L
Uranium-238	-4.3E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-4.7E-05					0									pCi/L
Nickel-63	3.8E+00					0									pCi/L
Plutonium-241	1.1E-01					0									pCi/L
Plutonium-242	5.7E-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 HSB102D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71952.4 E58393.4	33.280186 °N 81.652805 °W	236.3-216.3 ft msl	258.6 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation			ft msl
pH			pH
Sp. conductance			µS/cm
Water temperature			°C
Alkalinity as $CaCO_3$			mg/L
Turbidity			NTU
Volume purged			well volumes
Sampling code			
Synchronous water level	226.9 (09/28/94)	226.9 (10/06/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene															
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

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

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB102D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha															
Nonvolatile beta															

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB103C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71593.9 E58323.6	33.279279 °N 81.652293 °W	169.2-159.2 ft msl	247.4 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/05/94	10/06/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	222.5	222.3	ft msl
pH	5.1	5.1	pH
Sp. conductance	231	229	µS/cm
Water temperature	20.5	20.2	°C
Alkalinity as $CaCO_3$	1	1	mg/L
Turbidity	0.6	0.2	NTU
Volume purged	3.1	2.8	well volumes
Sampling code			
Synchronous water level	222.4 (09/28/94)	223.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	64	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	1.1	1	JY			1	WA	1.3	1				1	GE	µg/L
Selenium, total recoverable	2.1	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	13	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	J			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	3.3	1	JY3			1	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	21	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	190	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	3,100	10	Y			0	WA	16,000	40		■		2	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	92	2.1	VY	■		2	WA								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB103C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.2E+00	1				0	GP	5.2E+00	1				0	GP	pCi/L
Nonvolatile beta	1.7E+01	1				0	GP	1.7E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	5.7E-03	1	UI			0	GP								pCi/L
Cobalt-60	8.1E-01	1	UI			0	GP								pCi/L
Curium-242	2.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.2E+00	1	J	■		2	GP								pCi/L
Plutonium-238	4.8E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	7.0E-02	1	UI			0	GP								pCi/L
Radium-226	1.9E+00	1				0	GP								pCi/L
Radium-228	1.5E+00	1	J			0	GP								pCi/L
Strontium-89	-5.7E-01	1	UI			0	GP								pCi/L
Strontium-90	2.7E+00	1	J			0	GP								pCi/L
Technetium-99	1.5E+01	1	UI			0	GP								pCi/L
Thorium-228	4.4E-02	1	UI			0	GP								pCi/L
Thorium-230	1.2E-01	1	UI			0	GP								pCi/L
Thorium-232	9.5E-03	1	UI			0	GP								pCi/L
Thorium-234	1.1E+02	1	UI			0	GP								pCi/L
Tritium	6.7E+02	1		■		2	GP	6.5E+02	1		■		2	GP	pCi/mL
Uranium-233/234	3.8E-02	1	UI			0	GP								pCi/L
Uranium-235	2.3E-02	1	UI			0	GP								pCi/L
Uranium-238	4.6E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.9E-05					0									pCi/L
Nickel-63	8.1E-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 HSB103D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71588.1 E58315.6	33.279253 °N 81.652302 °W	233.7-213.7 ft msl	247.6 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/05/94	10/06/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	224.2	224.0	ft msl
pH	4.5	4.4	pH
Sp. conductance	180	186	µS/cm
Water temperature	20.4	20.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.9	NTU
Volume purged	8.7	4.1	well volumes
Sampling code			
Synchronous water level	223.9 (09/28/94)	225.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	17	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.1	JY3		•	0	WA								µg/L
Mercury, total recoverable	2.8	1	Y	■		2	WA	1.7	1				1	GE	µg/L
Selenium, total recoverable	<2.0	1	JY1			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<6.4	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	540	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	14,000	25	Y	■		2	WA	13,000	20		■		2	GE	µg/L
pH	4.5	1	JY3	■	•	0	WA	4.8	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB103D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+01	1				1	GP	8.2E+00	1				1	GP	pCi/L
Nonvolatile beta	3.9E+02	1		■		2	GP	2.5E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	2.9E-02	1	UI			0	GP								pCi/L
Cobalt-60	3.0E+00	1	UI			0	GP								pCi/L
Curium-242	1.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.3E-01	1	UI			0	GP								pCi/L
Curium-245/246	2.9E-02	1	UI			0	GP								pCi/L
Iodine-129	1.9E+01	1		■		2	GP								pCi/L
Plutonium-238	-1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	9.2E-03	1	UI			0	GP								pCi/L
Radium-226	1.0E+00	1	J			0	GP								pCi/L
Radium-228	2.0E+00	1	J			0	GP								pCi/L
Strontium-89	3.7E+01	1		■		2	GP								pCi/L
Strontium-90	1.8E+02	1		■		2	GP								pCi/L
Technetium-99	4.0E+01	1	J			0	GP								pCi/L
Thorium-228	-2.6E-02	1	UI			0	GP								pCi/L
Thorium-230	7.9E-02	1	UI			0	GP								pCi/L
Thorium-232	-5.0E-03	1	UI			0	GP								pCi/L
Thorium-234	6.3E+01	1	UI			0	GP								pCi/L
Tritium	2.3E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.9E-01	1	UI			0	GP								pCi/L
Uranium-235	-1.2E-02	1	UI			0	GP								pCi/L
Uranium-238	3.4E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.9E-04					0									pCi/L
Nickel-63	3.0E+00					0									pCi/L
Plutonium-241	3.7E-02					0									pCi/L
Plutonium-242	1.8E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB104C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71376.8 E58082.6	33.278406 °N 81.652506 °W	173.5-163.5 ft msl	247.9 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/06/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	219.3	219.4	ft msl
pH	9.2	10	pH
Sp. conductance	167	193	µS/cm
Water temperature	20.5	20	°C
Alkalinity as $CaCO_3$	30	46	mg/L
Turbidity	0.2	0.1	NTU
Volume purged	3.4	2.6	well volumes
Sampling code			
Synchronous water level	219.4 (09/28/94)	220.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	58	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	280	2	J	■		2	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<26	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	210	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	6,000	10	Y			1	WA	5,200	10				1	GE	µg/L
pH	7.5	1	JY3		•	0	WA	9.8	1	J1	■	•	1	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB104C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.4E+00	1	J3			0	GP	2.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.7E+01	1				0	GP	1.9E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.3E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.5E-01	1	UI			0	GP								pCi/L
Curium-242	-1.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	1.5E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.2E-02	1	UI			0	GP								pCi/L
Iodine-129	2.1E-01	1	UI			0	GP								pCi/L
Plutonium-238	3.6E-01	1	UI			0	GP								pCi/L
Plutonium-239/240	1.7E-01	1	UI			0	GP								pCi/L
Radium-226	4.6E-01	1	UI			0	GP								pCi/L
Radium-228	3.7E-01	1	UI			0	GP								pCi/L
Strontium-89	1.7E+00	1	UI			0	GP								pCi/L
Strontium-90	3.4E+00	1				0	GP								pCi/L
Technetium-99	3.5E+01	1	UI			0	GP								pCi/L
Thorium-228	1.2E-01	1	UI			0	GP								pCi/L
Thorium-230	3.1E-01	1	UI			0	GP								pCi/L
Thorium-232	9.2E-02	1	UI			0	GP								pCi/L
Thorium-234	4.3E+01	1	UI			0	GP								pCi/L
Tritium	2.6E+02	1		■		2	GP	2.7E+02	1		■		2	GP	pCi/mL
Uranium-233/234	5.1E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	8.9E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	4.4E-05					0									pCi/L
Nickel-63	2.5E-01					0									pCi/L
Plutonium-241	6.8E-01					0									pCi/L
Plutonium-242	3.4E-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 HSB104D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71370.2 E58075.8	33.278380 °N 81.652511 °W	230.6-210.6 ft msl	247.8 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/06/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	223.7	223.5	ft msl
pH	4.1	4.2	pH
Sp. conductance	120	145	µS/cm
Water temperature	20.1	20.2	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.6	NTU
Volume purged	6.0	3.7	well volumes
Sampling code			
Synchronous water level	223.3 (09/28/94)	224.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	20	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	2.1	1	Y	■		2	WA	1.7	1				1	GE	µg/L
Selenium, total recoverable	<2.0	1	JY1			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	5.4	1	Y			0	WA								µg/L
Cyanide	240	2	J	■		2	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<26	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,300	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	8,700	20	Y			1	WA	4,300	10				0	GE	µg/L
pH	4.1	1	JY3	■	●	0	WA	4.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB104D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.8E+00	1				1	GP	1.1E+01	1				1	GP	pCi/L
Nonvolatile beta	1.7E+03	1		■		2	GP	1.0E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	7.9E-02	1	UI			0	GP								pCi/L
Cobalt-60	2.1E+01	1				0	GP								pCi/L
Curium-242	2.3E-02	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	2.1E+00	1	J	■		2	GP								pCi/L
Plutonium-238	-3.7E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	7.2E-01	1	UI			0	GP								pCi/L
Radium-226	2.1E+00	1				0	GP								pCi/L
Radium-228	2.6E+00	1				0	GP								pCi/L
Strontium-89	-4.9E+01	1	UI			0	GP								pCi/L
Strontium-90	6.8E+02	1		■		2	GP								pCi/L
Technetium-99	5.6E+01	1	J			0	GP								pCi/L
Thorium-228	1.3E-02	1	UI			0	GP								pCi/L
Thorium-230	4.5E-02	1	UI			0	GP								pCi/L
Thorium-232	-3.6E-03	1	UI			0	GP								pCi/L
Thorium-234	1.5E+02	1	UI			0	GP								pCi/L
Tritium	7.1E+02	1		■		2	GP	6.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234	9.2E-01	1	UI			0	GP								pCi/L
Uranium-235	6.4E-01	1	UI			0	GP								pCi/L
Uranium-238	6.4E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.3E-05					0									pCi/L
Nickel-63	2.1E+01					0									pCi/L
Plutonium-241	2.9E+00					0									pCi/L
Plutonium-242	1.4E-05					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB105C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71447.3 E57883.8	33.278237 °N 81.653166 °W	162.2-152.2 ft msl	249.5 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/06/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	218.5	218.4	ft msl
pH	6	6	pH
Sp. conductance	93	91	µS/cm
Water temperature	19.3	18.8	°C
Alkalinity as $CaCO_3$	12	11	mg/L
Turbidity	0.4	1.1	NTU
Volume purged	3.8	4.0	well volumes
Sampling code			
Synchronous water level	218.3 (09/28/94)	219.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	6.1	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	4.0	1	Y			0	WA								µg/L
Lead, total recoverable	7.5	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	43	1	J	■		0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	17	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	3,700	10	Y			0	WA	3,300	4				0	GE	µg/L
pH	6.0	1	JY3	■	●	0	WA	6.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB105C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	-4.5E-02	1	UI			0	GP	3.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.7E+00	1	J3			0	GP	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	0.0E+00	1	UI			0	GP								pCi/L
Cobalt-60	-7.1E-01	1	UI			0	GP								pCi/L
Curium-242	2.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	8.7E-04	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	4.9E-01	1	UI			0	GP								pCi/L
Plutonium-238	5.9E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.9E-02	1	UI			0	GP								pCi/L
Radium-226	3.1E-01	1	UI			0	GP								pCi/L
Radium-228	-4.1E-02	1	UI			0	GP								pCi/L
Strontium-89	3.0E-01	1	UI			0	GP								pCi/L
Strontium-90	-5.0E-02	1	UI			0	GP								pCi/L
Technetium-99	8.7E+00	1	UI			0	GP								pCi/L
Thorium-228	-8.7E-03	1	UI			0	GP								pCi/L
Thorium-230	1.8E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	4.3E+00	1	UI			0	GP								pCi/L
Tritium	9.3E+01	1		■		2	GP	9.8E+01	1		■		2	GP	pCi/mL
Uranium-233/234	1.6E-02	1	UI			0	GP								pCi/L
Uranium-235	-9.3E-03	1	UI			0	GP								pCi/L
Uranium-238	9.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.6E-06					0									pCi/L
Nickel-63	-7.1E-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 HSB105D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71454.8 E57877.4	33.278244 °N 81.653197 °W	231.8-211.8 ft msl	249.5 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/06/94	10/06/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	224.0	223.7	ft msl
pH	4.2	4.1	pH
Sp. conductance	198	206	µS/cm
Water temperature	21.3	20.4	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.3	NTU
Volume purged	11	3.6	well volumes
Sampling code			
Synchronous water level	223.6 (09/28/94)	223.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	31	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	7.0	1	Y	■		2	WA	10	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	JY1			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	200	1	J	■		2	WA								µg/L
Nickel, total recoverable	4.7	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	19	1	VY			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,900	5	Y			0	WA	14,000	20		■		2	GE	µg/L
pH	4.2	1	JY3	■	●	0	WA	4.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB105D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+01	1		■		2	GP	2.1E+01	1		■		2	GP	pCi/L
Nonvolatile beta	1.2E+03	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	3.1E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.7E+01	1				0	GP								pCi/L
Curium-242	-1.3E-02	1	UI			0	GP								pCi/L
Curium-243/244	9.5E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.3E-02	1	UI			0	GP								pCi/L
Iodine-129	1.2E+01	1		■		2	GP								pCi/L
Plutonium-238	-2.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	4.8E-02	1	UI			0	GP								pCi/L
Radium-226	4.3E+00	1				0	GP								pCi/L
Radium-228	4.9E+00	1				0	GP								pCi/L
Strontium-89	1.1E+02	1		■		2	GP								pCi/L
Strontium-90	5.2E+02	1		■		2	GP								pCi/L
Technetium-99	3.3E+01	1	UI			0	GP								pCi/L
Thorium-228	1.9E-01	1	UI			0	GP								pCi/L
Thorium-230	3.3E-01	1	UI			0	GP								pCi/L
Thorium-232	6.2E-02	1	UI			0	GP								pCi/L
Thorium-234	6.9E+01	1	UI			0	GP								pCi/L
Tritium	4.7E+03	1		■		2	GP	3.4E+03	1		■		2	GP	pCi/mL
Uranium-233/234	7.8E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	6.9E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.8E-04					0									pCi/L
Nickel-63	1.7E+01					0									pCi/L
Plutonium-241	1.9E-01					0									pCi/L
Plutonium-242	9.7E-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 HSB106C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71720.9 E57651.5	33.278464 °N 81.654309 °W	168.7-158.7 ft msl	252.9 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/07/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.6	220.4	ft msl
pH	5.6	5.6	pH
Sp. conductance	90	94	µS/cm
Water temperature	20.2	19.3	°C
Alkalinity as $CaCO_3$	2	2	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.4	5.4	well volumes
Sampling code			
Synchronous water level	220.4 (09/28/94)	221.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	13	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	0.67	1	Y			0	WA	0.72	1				0	WA	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	64	1	J	■		0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	6,500	10	Y			1	WA	7,800	25				1	WA	µg/L
pH	6.1	1	JY3	■	●	0	WA	6.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB106C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.4E-01	1	UI			0	GP	1.4E+00	1	J1			0	TM	pCi/L
Nonvolatile beta	1.8E+00	1	J3			0	GP	5.3E+00	1				0	TM	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	-4.6E-01	1	UI			0	GP								pCi/L
Curium-242	-7.3E-03	1	UI			0	GP								pCi/L
Curium-243/244	-7.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	-6.9E-03	1	UI			0	GP								pCi/L
Iodine-129	7.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	-2.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.0E-02	1	UI			0	GP								pCi/L
Radium-226	5.9E-01	1	UI			0	GP								pCi/L
Radium-228	-1.3E-01	1	UI			0	GP								pCi/L
Strontium-89	2.6E-01	1	UI			0	GP								pCi/L
Strontium-90	1.1E-01	1	UI			0	GP								pCi/L
Technetium-99	1.4E+01	1	UI			0	GP								pCi/L
Thorium-228	1.1E-02	1	UI			0	GP								pCi/L
Thorium-230	6.1E-02	1	UI			0	GP								pCi/L
Thorium-232	2.9E-03	1	UI			0	GP								pCi/L
Thorium-234	2.1E+01	1	UI			0	GP								pCi/L
Tritium	2.8E+02	1		■		2	GP	2.8E+02	1		■		2	GP	pCi/mL
Uranium-233/234	1.2E-01	1	UI			0	GP								pCi/L
Uranium-235	5.4E-02	1	UI			0	GP								pCi/L
Uranium-238	6.4E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.3E-04					0									pCi/L
Nickel-63	-4.6E-01					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 HSB106D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71727.8 E57644.8	33.278468 °N 81.654340 °W	230.7-210.7 ft msl	252.9 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/07/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	224.5	224.1	ft msl
pH	4.4	4.4	pH
Sp. conductance	146	152	µS/cm
Water temperature	21	20.4	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	1.1	0.9	NTU
Volume purged	8.8	2.7	well volumes
Sampling code			
Synchronous water level	224.1 (09/28/94)	225.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	20	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	4.9	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.054	1.08	Y			0	WA								µg/L
Mercury, total recoverable	0.37	1	Y			0	WA	0.25	1	J			0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	150	1	J	■		1	WA								µg/L
Nickel, total recoverable	4.6	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	830	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	13,000	20	Y	■		2	WA	10,000	20		■		2	GE	µg/L
pH	4.4	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	JY1		●	0	GE								µg/L
Dichloromethane	<130	1	JVY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB106D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.6E+00	1				0	GP	5.2E+00	1				0	GP	pCi/L
Nonvolatile beta	5.4E+02	1		■		2	GP	5.4E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	2.9E+00	1	UI			0	GP								pCi/L
Curium-242	-4.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	5.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	5.8E+00	1		■		2	GP								pCi/L
Plutonium-238	-7.5E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	5.7E-03	1	UI			0	GP								pCi/L
Radium-226	2.2E+00	1				0	GP								pCi/L
Radium-228	2.6E-01	1	UI			0	GP								pCi/L
Strontium-89	4.8E+01	1		■		2	GP								pCi/L
Strontium-90	1.8E+02	1		■		2	GP								pCi/L
Technetium-99	3.9E+01	1	J3			0	GP								pCi/L
Thorium-228	6.4E-02	1	UI			0	GP								pCi/L
Thorium-230	6.7E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.3E-02	1	UI			0	GP								pCi/L
Thorium-234	2.4E+01	1	UI			0	GP								pCi/L
Tritium	1.0E+03	1		■		2	GP	4.7E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.4E-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	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.5E-04					0									pCi/L
Nickel-63	2.9E+00					0									pCi/L
Plutonium-241	2.3E-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 HSB107C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71698.5 E57432.0	33.278056 °N 81.654844 °W	169.3-159.3 ft msl	261.6 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/07/94	10/06/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	218.1	218.0	ft msl
pH	6.9	7.1	pH
Sp. conductance	151	162	µS/cm
Water temperature	21.1	20.1	°C
Alkalinity as $CaCO_3$	33	21	mg/L
Turbidity	0.2	0.6	NTU
Volume purged	4.1	2.6	well volumes
Sampling code			
Synchronous water level	217.9 (09/28/94)	218.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	44	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	42	1	J	■		0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	23	1	Y			0	WA								µg/L
Nitrate as nitrogen	5,200	10	Y			1	WA	4,600	10				0	GE	µg/L
pH	6.5	1	JY3	■	●	0	WA	7.0	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB107C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	5.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	8.6E+00	1				0	GP	1.2E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-3.2E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.7E+00	1	UI			0	GP								pCi/L
Curium-242	1.3E-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	5.1E-02	1	UI			0	GP								pCi/L
Plutonium-238	1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.7E-02	1	UI			0	GP								pCi/L
Radium-226	1.4E-01	1	UI			0	GP								pCi/L
Radium-228	2.2E-01	1	UI			0	GP								pCi/L
Strontium-89	1.5E-01	1	UI			0	GP								pCi/L
Strontium-90	2.0E+00	1	UI			0	GP								pCi/L
Technetium-99	3.8E+01	1	J			0	GP								pCi/L
Thorium-228	3.7E-03	1	UI			0	GP								pCi/L
Thorium-230	1.6E-01	1	UI			0	GP								pCi/L
Thorium-232	1.2E-02	1	UI			0	GP								pCi/L
Thorium-234	1.0E+02	1	UI			0	GP								pCi/L
Tritium	3.8E+02	1		■		2	GP	4.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234	3.5E-02	1	UI			0	GP								pCi/L
Uranium-235	4.3E-02	1	UI			0	GP								pCi/L
Uranium-238	4.9E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.3E-05					0									pCi/L
Nickel-63	1.7E+00					0									pCi/L
Plutonium-241	1.1E-01					0									pCi/L
Plutonium-242	5.4E-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 HSB107D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71696.6 E57412.2	33.278019 °N 81.654892 °W	235.1-215.1 ft msl	262.3 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/07/94	10/06/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	223.3	223.0	ft msl
pH	4.9	5	pH
Sp. conductance	298	293	µS/cm
Water temperature	21	19.6	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.7	3.3	well volumes
Sampling code			
Synchronous water level	223.0 (09/28/94)	224.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	47	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	4.5	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	4.9	1	Y	■		2	WA	4.4	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	JY3			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	12	1	JY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	110	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	29,000	100	Y	■		2	WA	340,000	800		■		2	GE	µg/L
pH	5.1	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB107D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.4E+00	1				0	GP	1.2E+01	1				1	GP	pCi/L
Nonvolatile beta	2.3E+03	1		■		2	GP	1.4E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	3.5E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.6E+01	1	J3			0	GP								pCi/L
Curium-242	-1.7E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.0E-01	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.1E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	-4.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	6.0E-02	1	UI			0	GP								pCi/L
Radium-226	3.4E+00	1				0	GP								pCi/L
Radium-228	8.0E-01	1	UI			0	GP								pCi/L
Strontium-89	1.1E+02	1		■		2	GP								pCi/L
Strontium-90	8.5E+02	1		■		2	GP								pCi/L
Technetium-99	8.4E+01	1				0	GP								pCi/L
Thorium-228	1.7E-02	1	UI			0	GP								pCi/L
Thorium-230	2.3E-02	1	UI			0	GP								pCi/L
Thorium-232	7.3E-03	1	UI			0	GP								pCi/L
Thorium-234	6.0E+01	1	UI			0	GP								pCi/L
Tritium	4.3E+03	1		■		2	GP	3.3E+03	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	1.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.1E-04					0									pCi/L
Nickel-63	1.6E+01					0									pCi/L
Plutonium-241	2.4E-01					0									pCi/L
Plutonium-242	1.2E-06					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB108C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71688.7 E57155.5	33.277583 °N 81.655553 °W	196.0-186.0 ft msl	266.2 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/07/94	10/11/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	217.5	217.3	ft msl
pH	7	7	pH
Sp. conductance	149	160	µS/cm
Water temperature	20.8	19.8	°C
Alkalinity as $CaCO_3$	47	54	mg/L
Turbidity	1.1	0.8	NTU
Volume purged	3.2	3.7	well volumes
Sampling code			
Synchronous water level	217.3 (09/28/94)	218.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	6.9	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	5.3	1	Y			0	WA								µg/L
Lead, total recoverable	4.2	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.1	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	28	1	Y			1	WA								µg/L
Nitrate as nitrogen	2,000	5	Y			0	WA	1,800	1				0	GE	µg/L
pH	6.8	1	JY3		•	0	WA	7.2	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB108C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E-01	1	UI			0	GP	5.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.4E+00	1				0	GP	2.6E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	3.6E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.7E+00	1	UI			0	GP								pCi/L
Curium-242	-7.0E-03	1	UI			0	GP								pCi/L
Curium-243/244	5.3E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.9E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	6.3E-02	1	UI			0	GP								pCi/L
Radium-226	5.5E-01	1	UI			0	GP								pCi/L
Radium-228	-7.1E-01	1	UI			0	GP								pCi/L
Strontium-89	-2.2E-01	1	UI			0	GP								pCi/L
Strontium-90	4.9E-01	1	UI			0	GP								pCi/L
Technetium-99	7.3E+00	1	UI			0	GP								pCi/L
Thorium-228	1.7E-02	1	UI			0	GP								pCi/L
Thorium-230	6.5E-02	1	UI			0	GP								pCi/L
Thorium-232	5.0E-03	1	UI			0	GP								pCi/L
Thorium-234	1.6E+01	1	UI			0	GP								pCi/L
Tritium	2.5E+02	1		■		2	GP	2.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.0E-01	1	UI			0	GP								pCi/L
Uranium-235	4.4E-02	1	UI			0	GP								pCi/L
Uranium-238	2.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.6E-04					0									pCi/L
Nickel-63	1.7E+00					0									pCi/L
Plutonium-241	2.5E-01					0									pCi/L
Plutonium-242	1.3E-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 HSB108D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71688.0 E57145.6	33.277566 °N 81.655577 °W	232.0-212.0 ft msl	266.3 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation			ft msl
pH			pH
Sp. conductance			µS/cm
Water temperature			°C
Alkalinity as $CaCO_3$			mg/L
Turbidity			NTU
Volume purged			well volumes
Sampling code			
Synchronous water level	221.8 (09/28/94)	222.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene															
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

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

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB108D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha															
Nonvolatile beta															

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB109C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71684.8 E56895.6	33.277151 °N 81.656229 °W	178.4-168.4 ft msl	261.6 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/08/94	10/11/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	217.7	217.6	ft msl
pH	5.9	6	pH
Sp. conductance	60	60	µS/cm
Water temperature	20.4	19.6	°C
Alkalinity as $CaCO_3$	9	10	mg/L
Turbidity	0.1	0.2	NTU
Volume purged	2.4	2.6	well volumes
Sampling code			
Synchronous water level	217.6 (09/28/94)	218.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	6.3	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	20	1	Y			0	WA								µg/L
Nitrate as nitrogen	1,600	5	Y			0	WA	1,600	1	Y			0	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	6.3	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB109C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.0E-01	1	UI			0	GP	5.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.3E+00	1	J3			0	GP	5.9E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	6.3E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.2E+00	1	UI			0	GP								pCi/L
Curium-242	-7.5E-03	1	UI			0	GP								pCi/L
Curium-243/244	3.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	2.0E-02	1	UI			0	GP								pCi/L
Iodine-129	4.3E-01	1	UI			0	GP								pCi/L
Plutonium-238	6.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	4.0E-02	1	UI			0	GP								pCi/L
Radium-226	2.0E-01	1	UI			0	GP								pCi/L
Radium-228	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-89	-6.4E-01	1	UI			0	GP								pCi/L
Strontium-90	4.7E-01	1	UI			0	GP								pCi/L
Technetium-99	1.3E+01	1	UI			0	GP								pCi/L
Thorium-228	4.7E-02	1	UI			0	GP								pCi/L
Thorium-230	9.9E-02	1	UI			0	GP								pCi/L
Thorium-232	4.4E-03	1	UI			0	GP								pCi/L
Thorium-234	1.0E+02	1	UI			0	GP								pCi/L
Tritium	6.4E+01	1		■		2	GP	6.3E+01	1		■		2	GP	pCi/mL
Uranium-233/234	-1.7E-03	1	UI			0	GP								pCi/L
Uranium-235	-7.4E-03	1	UI			0	GP								pCi/L
Uranium-238	-1.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-04					0									pCi/L
Nickel-63	1.2E+00					0									pCi/L
Plutonium-241	1.6E-01					0									pCi/L
Plutonium-242	8.0E-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 HSB109D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71685.6 E56885.5	33.277136 °N 81.656257 °W	233.0-213.0 ft msl	261.2 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/08/94	10/12/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.4		ft msl
pH	4.4	4.6	pH
Sp. conductance	59	63	µS/cm
Water temperature	22.7	17.8	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.7	NTU
Volume purged	2.5		well volumes
Sampling code		X	
Synchronous water level	221.1 (09/28/94)	221.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	24	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	0.43	1	Y			0	WA	0.59	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.7	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	380	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	3,300	5	Y			0	WA	4,700	4	Y			0	GE	µg/L
pH	4.6	1	JY3	■	●	0	WA	4.7	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB109D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E+00	1	J3			0	GP	-2.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	3.8E+02	1		■		2	GP	8.7E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.5E-02	1	UI			0	GP								pCi/L
Cobalt-60	7.9E+00	1	J			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	-1.7E-02	1	UI			0	GP								pCi/L
Curium-245/246	-7.6E-03	1	UI			0	GP								pCi/L
Iodine-129	2.5E+00	1	J3	■		2	GP								pCi/L
Plutonium-238	-1.8E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.0E-03	1	UI			0	GP								pCi/L
Radium-226	1.0E+00	1	UI			0	GP								pCi/L
Radium-228	-8.6E-01	1	UI			0	GP								pCi/L
Strontium-89	-8.8E-01	1	UI			0	GP								pCi/L
Strontium-90	1.3E+02	1		■		2	GP								pCi/L
Technetium-99	1.8E+01	1	UI			0	GP								pCi/L
Thorium-228	-8.4E-03	1	UI			0	GP								pCi/L
Thorium-230	6.3E-02	1	UI			0	GP								pCi/L
Thorium-232	1.0E-02	1	UI			0	GP								pCi/L
Thorium-234	7.5E+00	1	UI			0	GP								pCi/L
Tritium	5.2E+01	1		■		2	GP	8.2E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.1E-01	1	UI			0	GP								pCi/L
Uranium-235	-8.0E-03	1	UI			0	GP								pCi/L
Uranium-238	1.5E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.0E-05					0									pCi/L
Nickel-63	7.9E+00					0									pCi/L
Plutonium-241	-2.0E-02					0									pCi/L
Plutonium-242	-9.9E-08					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB110C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71779.3 E56680.7	33.277009 °N 81.656979 °W	181.4-171.4 ft msl	255.7 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/08/94	10/14/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	218.0	218.3	ft msl
pH	5.3	5.4	pH
Sp. conductance	28	28	µS/cm
Water temperature	20.4	19.8	°C
Alkalinity as $CaCO_3$	1	1	mg/L
Turbidity	0.7	0.3	NTU
Volume purged	3.2	3.0	well volumes
Sampling code			
Synchronous water level	217.8 (09/28/94)	218.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	<4.0	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	4.3	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	530	1	Y			0	WA	480	1				0	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB110C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.5E-01	1	UI			0	GP	7.8E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	8.5E-01	1	UI			0	GP	6.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.8E+00	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	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	3.2E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.2E-03	1	UI			0	GP								pCi/L
Radium-226	1.0E-01	1	UI			0	GP								pCi/L
Radium-228	-6.6E-01	1	UI			0	GP								pCi/L
Strontium-89	2.1E-01	1	UI			0	GP								pCi/L
Strontium-90	3.0E-02	1	UI			0	GP								pCi/L
Technetium-99	1.9E+01	1	UI			0	GP								pCi/L
Thorium-228	4.6E-02	1	UI			0	GP								pCi/L
Thorium-230	7.3E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.0E-02	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	1.7E+01	1				1	GP	1.8E+01	1				1	GP	pCi/mL
Uranium-233/234	1.6E-02	1	UI			0	GP								pCi/L
Uranium-235	3.2E-02	1	UI			0	GP								pCi/L
Uranium-238	-3.5E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.4E-05					0									pCi/L
Nickel-63	1.8E+00					0									pCi/L
Plutonium-241	-2.1E-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 HSB110D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71785.2 E56672.1	33.277008 °N 81.657013 °W	231.4-211.4 ft msl	255.6 ft msl	4" PVC	V	Water Table (UB_2)

SAMPLE DATE	07/08/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.8	221.1	ft msl
pH	4.6	4.5	pH
Sp. conductance	43	46	µS/cm
Water temperature	20.3	19.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.6	NTU
Volume purged	5.8	4.6	well volumes
Sampling code			
Synchronous water level	220.5 (09/28/94)	221.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	<4.0	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	6.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	4.9	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.9	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<36	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	220	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	1,400	5	Y			0	WA	1,600	1				0	GE	µg/L
pH	4.7	1	JY3	■	●	0	WA	5.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	9.5	1	Y	■		2	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB110D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+00	1	J3			0	GP	-1.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	7.5E+01	1		■		2	GP	8.2E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-5.3E-02	1	UI			0	GP								pCi/L
Cobalt-60	3.6E+00	1	UI			0	GP								pCi/L
Curium-242	5.2E-03	1	UI			0	GP								pCi/L
Curium-243/244	6.8E-02	1	UI			0	GP								pCi/L
Curium-245/246	-8.9E-03	1	UI			0	GP								pCi/L
Iodine-129	1.5E+00	1	UI			0	GP								pCi/L
Plutonium-238	2.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.8E-02	1	UI			0	GP								pCi/L
Radium-226	8.2E-01	1	UI			0	GP								pCi/L
Radium-228	-6.8E-01	1	UI			0	GP								pCi/L
Strontium-89	1.5E+00	1	UI			0	GP								pCi/L
Strontium-90	2.6E+01	1		■		2	GP								pCi/L
Technetium-99	2.7E+01	1	UI			0	GP								pCi/L
Thorium-228	-1.6E-03	1	UI			0	GP								pCi/L
Thorium-230	7.0E-02	1	UI			0	GP								pCi/L
Thorium-232	-7.0E-03	1	UI			0	GP								pCi/L
Thorium-234	3.3E+01	1	UI			0	GP								pCi/L
Tritium	1.8E+01	1				1	GP	1.8E+01	1				1	GP	pCi/mL
Uranium-233/234	3.2E-01	1	UI			0	GP								pCi/L
Uranium-235	2.5E-02	1	UI			0	GP								pCi/L
Uranium-238	1.9E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.0E-04					0									pCi/L
Nickel-63	3.6E+00					0									pCi/L
Plutonium-241	7.4E-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 HSB111C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71919.4 E56501.9	33.277027 °N 81.657722·°W	150.7-140.7 ft msl	256 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/07/94	10/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	219.2	219.6	ft msl
pH	5.1	5.2	pH
Sp. conductance	169	172	µS/cm
Water temperature	20.5	20.1	°C
Alkalinity as $CaCO_3$	0	1	mg/L
Turbidity	0.2	0.3	NTU
Volume purged	2.8	2.4	well volumes
Sampling code			
Synchronous water level	218.9 (09/28/94)	219.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	14	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	22	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	130	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	13,000	50	Y	■		2	WA	14,000	20		■		2	GE	µg/L
pH	5.3	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB111C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.6E-01	1	UI			0	GP	2.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.1E+01	1				0	GP	1.2E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-5.7E-03	1	UI			0	GP								pCi/L
Cobalt-60	-2.3E+00	1	UI			0	GP								pCi/L
Curium-242	-2.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	6.1E-02	1	UI			0	GP								pCi/L
Curium-245/246	-1.0E-02	1	UI			0	GP								pCi/L
Iodine-129	1.6E+00	1	UI			0	GP								pCi/L
Plutonium-238	-1.8E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-6.0E-03	1	UI			0	GP								pCi/L
Radium-226	2.4E+00	1				0	GP								pCi/L
Radium-228	7.0E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.2E+00	1	UI			0	GP								pCi/L
Strontium-90	1.6E+00	1	UI			0	GP								pCi/L
Technetium-99	1.5E+02	1				0	GP								pCi/L
Thorium-228	4.1E-02	1	UI			0	GP								pCi/L
Thorium-230	1.3E-01	1	UI			0	GP								pCi/L
Thorium-232	-4.6E-03	1	UI			0	GP								pCi/L
Thorium-234	2.1E+01	1	UI			0	GP								pCi/L
Tritium	2.5E+03	1		■		2	GP	2.3E+03	1		■		2	GP	pCi/mL
Uranium-233/234	8.0E-01	1	UI			0	GP								pCi/L
Uranium-235	8.1E-02	1	UI			0	GP								pCi/L
Uranium-238	4.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.8E-04					0									pCi/L
Nickel-63	-2.3E+00					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 HSB111D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71926.2 E56494.5	33.277030 °N 81.657754 °W	195.7-185.7 ft msl	256 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/07/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.6	221.1	ft msl
pH	5	5.1	pH
Sp. conductance	388	403	µS/cm
Water temperature	20.6	20.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.2	NTU
Volume purged	2.3	2.5	well volumes
Sampling code			
Synchronous water level	220.3 (09/28/94)	221.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	22	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	VY			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	JY3			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<15	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	37,000	100	Y	■		2	WA	42,000	40		■		2	GE	µg/L
pH	5.0	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB111D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.7E+00	1	J3			0	GP	5.0E+00	1				0	GP	pCi/L
Nonvolatile beta	4.0E+01	1				1	GP	2.5E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-5.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	3.0E+00	1	UI			0	GP								pCi/L
Curium-242	-5.4E-02	1	UI			0	GP								pCi/L
Curium-243/244	-3.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	8.0E+00	1		■		2	GP								pCi/L
Plutonium-238	1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.6E-02	1	UI			0	GP								pCi/L
Radium-226	2.0E+00	1				0	GP								pCi/L
Radium-228	8.7E-01	1	UI			0	GP								pCi/L
Strontium-89	-3.2E-01	1	UI			0	GP								pCi/L
Strontium-90	5.4E-01	1	UI			0	GP								pCi/L
Technetium-99	2.2E+02	1				0	GP								pCi/L
Thorium-228	-1.0E-03	1	UI			0	GP								pCi/L
Thorium-230	9.8E-02	1	UI			0	GP								pCi/L
Thorium-232	8.2E-03	1	UI			0	GP								pCi/L
Thorium-234	4.8E+01	1	UI			0	GP								pCi/L
Tritium	8.6E+03	1		■		2	GP	8.5E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.5E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	5.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-9.5E-05					0									pCi/L
Nickel-63	3.0E+00					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 HSB111E

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71932.8 E56487.2	33.277033 °N 81.657786 °W	231.7-211.7 ft msl	255.9 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/07/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.7	221.1	ft msl
pH	4.2	4.6	pH
Sp. conductance	56	57	µS/cm
Water temperature	19.9	20.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	1.6	0.5	NTU
Volume purged	3.6	3.6	well volumes
Sampling code			
Synchronous water level	220.4 (09/28/94)	221.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	5.0	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.1	J			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<7.7	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	3,100	5	Y			0	WA	4,000	5				0	GE	µg/L
pH	4.5	1	JY3	■	●	0	WA	4.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB111E (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E+00	1	J3			0	GP	5.1E+00	1				0	GP	pCi/L
Nonvolatile beta	2.5E+02	1		■		2	GP	2.6E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	4.8E-02	1	UI			0	GP								pCi/L
Cobalt-60	9.9E+00	1	J			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	4.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	2.4E-02	1	UI			0	GP								pCi/L
Iodine-129	2.6E-01	1	UI			0	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	7.4E-03	1	UI			0	GP								pCi/L
Radium-226	1.1E+00	1	J3			0	GP								pCi/L
Radium-228	6.3E-01	1	UI			0	GP								pCi/L
Strontium-89	4.1E+00	1				0	GP								pCi/L
Strontium-90	1.3E+02	1		■		2	GP								pCi/L
Technetium-99	1.4E+01	1	UI			0	GP								pCi/L
Thorium-228	1.4E-01	1	UI			0	GP								pCi/L
Thorium-230	8.8E-02	1	UI			0	GP								pCi/L
Thorium-232	2.1E-02	1	UI			0	GP								pCi/L
Thorium-234	7.7E+00	1	UI			0	GP								pCi/L
Tritium	2.6E+02	1		■		2	GP	2.4E+02	1		■		2	GP	pCi/mL
Uranium-233/234	3.2E-01	1	UI			0	GP								pCi/L
Uranium-235	-6.0E-03	1	UI			0	GP								pCi/L
Uranium-238	2.4E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.4E-04					0									pCi/L
Nickel-63	9.9E+00					0									pCi/L
Plutonium-241	3.0E-02					0									pCi/L
Plutonium-242	1.5E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB112C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72156.4 E56417.4	33.277413 °N 81.658404 °W	150.6-140.6 ft msl	254.9 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/11/94	10/11/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.2	220.0	ft msl
pH	6.1	6.2	pH
Sp. conductance	143	136	µS/cm
Water temperature	20.5	19.7	°C
Alkalinity as $CaCO_3$	1	13	mg/L
Turbidity	0.9	0.3	NTU
Volume purged	4.6	4.4	well volumes
Sampling code			
Synchronous water level	220.0 (09/28/94)	220.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	18	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	4.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	69	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	160	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	7,900	20	Y			1	WA	7,400	10				1	GE	µg/L
pH	6.4	1	JY3	■	●	0	WA	6.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<11	1	Y			0	GE								µg/L
Dichloromethane	1.4	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB112C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1	J3			0	GP	1.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.6E+01	1				0	GP	8.9E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	6.4E-02	1	UI			0	GP								pCi/L
Cobalt-60	6.2E-01	1	UI			0	GP								pCi/L
Curium-242	-1.8E-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	1.5E+00	1	UI			0	GP								pCi/L
Plutonium-238	1.4E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	4.4E-01	1	UI			0	GP								pCi/L
Radium-228	-5.3E-02	1	UI			0	GP								pCi/L
Strontium-89	-3.4E-01	1	UI			0	GP								pCi/L
Strontium-90	3.4E-01	1	UI			0	GP								pCi/L
Technetium-99	6.3E+01	1	J3			0	GP								pCi/L
Thorium-228	5.4E-03	1	UI			0	GP								pCi/L
Thorium-230	1.5E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	1.2E+03	1		■		2	GP	1.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.1E-01	1	UI			0	GP								pCi/L
Uranium-235	-4.4E-02	1	UI			0	GP								pCi/L
Uranium-238	-6.0E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.3E-05					0									pCi/L
Nickel-63	6.2E-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 HSB112D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72161.6 E56408.1	33.277410 °N 81.658439·°W	198.3-188.3 ft msl	255.1 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/11/94	10/11/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.3	220.8	ft msl
pH	5.1	5.1	pH
Sp. conductance	295	301	µS/cm
Water temperature	20.5	19.6	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	4.3	3.4	well volumes
Sampling code			
Synchronous water level	221.0 (09/28/94)	222.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	5.9	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.054	1.07	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	14	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	54	1	VY3	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	50	1	Y3			1	WA								µg/L
Nitrate as nitrogen	25,000	100	Y	■		2	WA	26,000	20		■		2	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	1.4	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB112D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.3E-01	1	UI			0	GP	1.9E+00	1	J			0	GP	pCi/L
Nonvolatile beta	9.6E+00	1				0	GP	2.7E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.9E-02	1	UI			0	GP								pCi/L
Cobalt-60	-1.0E+00	1	UI			0	GP								pCi/L
Curium-242	-2.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.7E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.3E+01	1		■		2	GP								pCi/L
Plutonium-238	2.1E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	6.4E+00	1				0	GP								pCi/L
Radium-228	9.5E-02	1	UI			0	GP								pCi/L
Strontium-89	6.8E-01	1	UI			0	GP								pCi/L
Strontium-90	-4.0E-02	1	UI			0	GP								pCi/L
Technetium-99	1.6E+02	1				0	GP								pCi/L
Thorium-228	7.7E-02	1	UI			0	GP								pCi/L
Thorium-230	2.4E-02	1	UI			0	GP								pCi/L
Thorium-232	-1.1E-03	1	UI			0	GP								pCi/L
Thorium-234	1.0E+02	1	UI			0	GP								pCi/L
Tritium	7.3E+03	1		■		2	GP	7.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.7E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.7E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.0E-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 HSB112E

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72166.6 E56399.5	33.277407 °N 81.658471 °W	231.7-211.7 ft msl	255.1 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/12/94	10/12/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	221.2	220.8	ft msl
pH	4.5	4.8	pH
Sp. conductance	158	138	µS/cm
Water temperature	20.3	17.8	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	18.3	6.9	NTU
Volume purged	0.80	1.0	well volumes
Sampling code	X	X	
Synchronous water level	220.9 (09/28/94)	221.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	20	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	7.2	1	Y			0	WA								µg/L
Lead, total recoverable	3.9	1	Y			0	WA								µg/L
Lindane	<0.054	1.08	JY3		•	0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	3.1	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	6.0	1	Y			0	WA								µg/L
Copper, total recoverable	8.1	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	12	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	52	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	230	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	11,000	20	Y	■		2	WA	9,100	10				1	GE	µg/L
pH	5.1	1	JY3	■	•	0	WA	5.2	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	1.8	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB112E (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.7E+00	1				0	GP	6.3E+00	1				0	GP	pCi/L
Nonvolatile beta	2.4E+02	1		■		2	GP	1.9E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	5.5E-03	1	UI			0	GP								pCi/L
Cobalt-60	9.9E+00	1	UI			0	GP								pCi/L
Curium-242	1.7E-02	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	4.9E+00	1		■		2	GP								pCi/L
Plutonium-238	-2.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	3.3E-02	1	UI			0	GP								pCi/L
Radium-226	1.6E+00	1	J3			0	GP								pCi/L
Radium-228	1.3E+00	1	J3			0	GP								pCi/L
Strontium-89	5.4E+00	1				0	GP								pCi/L
Strontium-90	1.4E+02	1		■		2	GP								pCi/L
Technetium-99	3.9E+01	1	J3			0	GP								pCi/L
Thorium-228	2.0E-01	1	UI			0	GP								pCi/L
Thorium-230	2.1E-01	1	UI			0	GP								pCi/L
Thorium-232	6.9E-02	1	UI			0	GP								pCi/L
Thorium-234	2.5E+02	1	UI			0	GP								pCi/L
Tritium	1.5E+03	1		■		2	GP	1.1E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.9E-01	1	UI			0	GP								pCi/L
Uranium-235	5.1E-02	1	UI			0	GP								pCi/L
Uranium-238	1.6E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.8E-05					0									pCi/L
Nickel-63	9.9E+00					0									pCi/L
Plutonium-241	1.3E-01					0									pCi/L
Plutonium-242	6.5E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB113C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72312.3 E56160.4	33.277339 °N 81.659384 °W	161.7-151.7 ft msl	261 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/08/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.5	220.8	ft msl
pH	5.3	5	pH
Sp. conductance	167	178	µS/cm
Water temperature	21.5	20.6	°C
Alkalinity as $CaCO_3$	1	0	mg/L
Turbidity	0.1	1	NTU
Volume purged	2.9	2.5	well volumes
Sampling code			
Synchronous water level	220.3 (09/28/94)	221.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	34	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY1			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<51	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	170	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	14,000	50	Y	■		2	WA	15,000	10		■		2	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	5.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<130	1	JVY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB113C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+00	1	J3			0	GP	3.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.5E+01	1				0	GP	2.6E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	6.0E-03	1	UI			0	GP								pCi/L
Cobalt-60	-3.8E-01	1	UI			0	GP								pCi/L
Curium-242	-1.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-6.9E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	3.7E-01	1	UI			0	GP								pCi/L
Plutonium-238	-1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-9.9E-03	1	UI			0	GP								pCi/L
Radium-226	7.5E-01	1	UI			0	GP								pCi/L
Radium-228	3.1E-01	1	UI			0	GP								pCi/L
Strontium-89	2.1E-01	1	UI			0	GP								pCi/L
Strontium-90	-2.0E-02	1	UI			0	GP								pCi/L
Technetium-99	1.8E+02	1				0	GP								pCi/L
Thorium-228	3.3E-03	1	UI			0	GP								pCi/L
Thorium-230	8.6E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	5.5E+01	1	UI			0	GP								pCi/L
Tritium	1.7E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.8E-02	1	UI			0	GP								pCi/L
Uranium-235	-2.2E-02	1	UI			0	GP								pCi/L
Uranium-238	1.7E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.1E-04					0									pCi/L
Nickel-63	-3.8E-01					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 HSB113D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72302.7 E56164.3	33.277324 °N 81.659355 °W	236.2-216.2 ft msl	260.9 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/08/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.9	221.3	ft msl
pH	3.8	3.8	pH
Sp. conductance	405	372	µS/cm
Water temperature	21.7	20.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.4	0.6	NTU
Volume purged	3.5	4.5	well volumes
Sampling code			
Synchronous water level	220.7 (09/28/94)	221.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	66	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.1	Y			0	WA								µg/L
Mercury, total recoverable	0.72	1	J			0	WA	0.35	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	VY			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	9.1	1	Y			0	WA								µg/L
Copper, total recoverable	11	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	12	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	79	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	8,200	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	33,000	100	Y	■		2	WA	350,000	800	Y	■		2	GE	µg/L
pH	3.9	1	JY3	■	●	1	WA	3.7	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	40	1.1	VY	■		2	WA								µg/L
Dichloromethane	<5.0	1	VY			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB113D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E+01	1		■		2	GP	3.0E+01	1		■		2	GP	pCi/L
Nonvolatile beta	1.7E+03	1		■		2	GP	1.6E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	3.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.0E+02	1				1	GP								pCi/L
Curium-242	-1.3E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.2E+00	1				0	GP								pCi/L
Curium-245/246	4.2E-02	1	UI			0	GP								pCi/L
Iodine-129	5.0E+01	1		■		2	GP								pCi/L
Plutonium-238	-2.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.9E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+01	1				1	GP								pCi/L
Radium-228	8.4E+00	1				0	GP								pCi/L
Strontium-89	-4.7E+01	1	UI			0	GP								pCi/L
Strontium-90	5.5E+02	1		■		2	GP								pCi/L
Technetium-99	1.0E+02	1				0	GP								pCi/L
Thorium-228	1.2E-01	1	UJI			0	GP								pCi/L
Thorium-230	3.3E-02	1	UJI			0	GP								pCi/L
Thorium-232	2.1E-02	1	UI			0	GP								pCi/L
Thorium-234	2.4E+02	1	UI			0	GP								pCi/L
Tritium	5.7E+03	1		■		2	GP	4.5E+03	1		■		2	GP	pCi/mL
Uranium-233/234	3.1E+00	1				0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.5E+00	1	J3			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.6E-03					0									pCi/L
Nickel-63	1.0E+02			■		2									pCi/L
Plutonium-241	1.1E-01					0									pCi/L
Plutonium-242	5.7E-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 HSB114C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72464.6 E56107.0	33.277589 °N 81.659820 °W	195.6-185.6 ft msl	263.8 ft msl	4" PVC	V	Barnwell (IIB_1)

SAMPLE DATE	07/07/94	10/11/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	221.5	221.1	ft msl
pH	4.6	4.5	pH
Sp. conductance	409	386	µS/cm
Water temperature	21.7	19.8	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.1	0.2	NTU
Volume purged	4.4	2.4	well volumes
Sampling code			
Synchronous water level	221.2 (09/28/94)	222.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	57	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	4.7	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	0.22	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	VY			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	5.2	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	9.6	1	Y	■		0	WA								µg/L
Nickel, total recoverable	8.5	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	34	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	370	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	41,000	100	Y	■		2	WA	500,000	800		■		2	GE	µg/L
pH	4.6	1	JY3	■	●	0	WA	4.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB114C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.8E+00	1				1	GP	1.2E+01	1				1	GP	pCi/L
Nonvolatile beta	1.2E+02	1		■		2	GP	8.9E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-2.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.4E+00	1	UI			0	GP								pCi/L
Curium-242	-1.1E-02	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	5.5E+00	1		■		2	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.0E-02	1	UI			0	GP								pCi/L
Radium-226	7.0E+00	1				0	GP								pCi/L
Radium-228	1.5E+00	1	UI			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	1.8E+00	1	UI			0	GP								pCi/L
Technetium-99	2.2E+02	1				0	GP								pCi/L
Thorium-228	5.1E-02	1	UI			0	GP								pCi/L
Thorium-230	4.6E-02	1	UI			0	GP								pCi/L
Thorium-232	-4.5E-03	1	UI			0	GP								pCi/L
Thorium-234	8.9E+00	1	UI			0	GP								pCi/L
Tritium	9.3E+03	1		■		2	GP	7.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234	-1.6E-01	1	UI			0	GP								pCi/L
Uranium-235	2.0E-01	1	UI			0	GP								pCi/L
Uranium-238	4.5E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	7.4E-05					0									pCi/L
Nickel-63	1.4E+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 HSB114D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72474.2 E56104.6	33.277606 °N 81.659845 °W	232.8-212.8 ft msl	264 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/07/94	10/11/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	221.5	221.0	ft msl
pH	4	3.8	pH
Sp. conductance	295	330	µS/cm
Water temperature	21.8	19.9	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.3	5.6	well volumes
Sampling code			
Synchronous water level	221.1 (09/28/94)	222.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	60	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	6.2	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.054	1.08	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	17	1	Y			0	WA								µg/L
Copper, total recoverable	9.8	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	19	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	75	1	Y	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	5,400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	25,000	100	Y	■		2	WA	560,000	800		■		2	GE	µg/L
pH	3.9	1	JY3	■	●	1	WA	3.9	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<130	1	JVY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB114D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.8E+01	1		■		2	GP	4.6E+01	1		■		2	GP	pCi/L
Nonvolatile beta	2.0E+03	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	8.3E+01	1				1	GP								pCi/L
Curium-242	-4.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	4.3E-01	1	UI			0	GP								pCi/L
Curium-245/246	-1.3E-02	1	UI			0	GP								pCi/L
Iodine-129	1.6E+02	1		■		2	GP								pCi/L
Plutonium-238	3.3E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.2E-02	1	UI			0	GP								pCi/L
Radium-226	1.7E+01	1				1	GP								pCi/L
Radium-228	7.2E+00	1				0	GP								pCi/L
Strontium-89	5.9E+00	1				0	GP								pCi/L
Strontium-90	8.0E+02	1		■		2	GP								pCi/L
Technetium-99	3.0E+02	1				0	GP								pCi/L
Thorium-228	1.3E-01	1	UI			0	GP								pCi/L
Thorium-230	7.1E-02	1	UI			0	GP								pCi/L
Thorium-232	4.0E-02	1	UI			0	GP								pCi/L
Thorium-234	1.8E+01	1	UI			0	GP								pCi/L
Tritium	4.9E+03	1		■		2	GP	6.0E+03	1		■		2	GP	pCi/mL
Uranium-233/234	2.5E+00	1				0	GP								pCi/L
Uranium-235	1.1E-01	1	UI			0	GP								pCi/L
Uranium-238	1.6E+00	1	J3			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.3E-03					0									pCi/L
Nickel-63	8.3E+01			■		2									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 HSB115C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72653.2 E56043.2	33.277902 °N 81.660355 °W	192.8-182.8 ft msl	269.3 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/11/94	10/12/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	222.1	221.9	ft msl
pH	6.1	6.1	pH
Sp. conductance	395	358	µS/cm
Water temperature	21.2	20	°C
Alkalinity as $CaCO_3$	7	8	mg/L
Turbidity	0.4	0.3	NTU
Volume purged	4.3	4.2	well volumes
Sampling code			
Synchronous water level	221.8 (09/28/94)	223.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	42	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	22	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	180	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	33,000	100	Y	■		2	WA	550,000	800		■		2	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	6.8	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	2.1	JY			0	WA								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB115C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.9E+00	1				0	GP	1.1E+01	1				1	GP	pCi/L
Nonvolatile beta	6.1E+01	1		■		2	GP	1.1E+02	1		■		2	TM	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.8E-02	1	UI			0	GP								pCi/L
Cobalt-60	3.1E+00	1	UI			0	GP								pCi/L
Curium-242	4.5E-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	1.4E+01	1		■		2	GP								pCi/L
Plutonium-238	4.2E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	4.1E+00	1				0	GP								pCi/L
Radium-228	4.1E-02	1	UI			0	GP								pCi/L
Strontium-89	-1.2E-01	1	UI			0	GP								pCi/L
Strontium-90	6.8E+00	1				1	GP								pCi/L
Technetium-99	1.7E+02	1				0	GP								pCi/L
Thorium-228	4.6E-02	1	UI			0	GP								pCi/L
Thorium-230	1.2E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	2.1E+01	1	UI			0	GP								pCi/L
Tritium	1.2E+04	1		■		2	GP	1.2E+04	1		■		2	TM	pCi/mL
Uranium-233/234	6.5E-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	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-9.4E-05					0									pCi/L
Nickel-63	3.1E+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 HSB115D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72662.3 E56039.8	33.277916 °N 81.660381·°W	233.9-213.9 ft msl	269.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/12/94	10/12/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	222.0	221.6	ft msl
pH	3.9	3.8	pH
Sp. conductance	383	389	µS/cm
Water temperature	22.8	18.1	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	116	50.8	NTU
Volume purged	0.19	0.20	well volumes
Sampling code	X	X	
Synchronous water level	221.7 (09/28/94)	223.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	150	1	Y			0	WA								µg/L
Cadmium, total recoverable	3.8	1	Y			1	WA								µg/L
Chromium, total recoverable	17	1	Y			0	WA								µg/L
Lead, total recoverable	72	4	Y	■		2	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	31	1	Y			1	WA								µg/L
Copper, total recoverable	17	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	52	1	Y	■		1	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	31	1	Y			0	WA								µg/L
Zinc, total recoverable	92	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	10,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	32,000	100	Y	■		2	WA	39,000	20		■		2	GE	µg/L
pH	4.2	1	JY3	■	●	0	WA	3.9	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB115D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.0E+01	1		■		2	GP	2.9E+01	1		■		2	GP	pCi/L
Nonvolatile beta	3.4E+03	1		■		2	GP	2.6E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	9.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	1.1E+02	1		■		2	GP								pCi/L
Curium-242	-3.3E-02	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	4.1E+01	1		■		2	GP								pCi/L
Plutonium-238	1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-1.2E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+01	1				1	GP								pCi/L
Radium-228	1.2E+01	1				1	GP								pCi/L
Strontium-89	-3.7E+01	1	UI			0	GP								pCi/L
Strontium-90	1.5E+03	1		■		2	GP								pCi/L
Technetium-99	1.4E+02	1	J			0	GP								pCi/L
Thorium-228	1.3E-01	1	UI			0	GP								pCi/L
Thorium-230	7.0E-02	1	UI			0	GP								pCi/L
Thorium-232	-4.9E-03	1	UI			0	GP								pCi/L
Thorium-234	2.0E+01	1	UI			0	GP								pCi/L
Tritium	7.9E+03	1		■		2	GP	7.1E+03	1		■		2	GP	pCi/mL
Uranium-233/234	8.4E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	6.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-7.5E-05					0									pCi/L
Nickel-63	1.1E+02			■		2									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 HSB116C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72888.1 E55989.1	33.278333 °N 81.660953 °W	190.5-180.5 ft msl	257.5 ft msl	4" PVC	V	Barnwell (IIB_1)

SAMPLE DATE	07/11/94	10/10/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	223.1	222.8	ft msl
pH	4.9	4.9	pH
Sp. conductance	437	367	µS/cm
Water temperature	21.2	20.4	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.1	0.1	NTU
Volume purged	2.2	2.2	well volumes
Sampling code			
Synchronous water level	222.8 (09/28/94)	224.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	47	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	JY3		•	0	WA								µg/L
Mercury, total recoverable	0.90	1	JY			0	WA	0.79	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	38	1	Y			1	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	6.2	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	12	1	Y			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	120	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	39,000	100	Y	■		2	WA	34,000	40		■		2	GE	µg/L
pH	5.0	1	JY3	■	•	0	WA	5.3	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB116C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.9E+00	1				0	GP	5.2E+00	1				0	GP	pCi/L
Nonvolatile beta	3.8E+01	1				1	GP	2.5E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-3.1E-02	1	UI			0	GP								pCi/L
Cobalt-60	-7.4E-01	1	UI			0	GP								pCi/L
Curium-242	-2.2E-02	1	UI			0	GP								pCi/L
Curium-243/244	6.3E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	2.3E+01	1		■		2	GP								pCi/L
Plutonium-238	-1.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	1.2E-02	1	UI			0	GP								pCi/L
Radium-226	2.7E+00	1				0	GP								pCi/L
Radium-228	1.2E+00	1	J3			0	GP								pCi/L
Strontium-89	2.7E-01	1	UI			0	GP								pCi/L
Strontium-90	4.5E-01	1	UI			0	GP								pCi/L
Technetium-99	2.1E+02	1				0	GP								pCi/L
Thorium-228	-7.6E-03	1	UI			0	GP								pCi/L
Thorium-230	-8.6E-03	1	UI			0	GP								pCi/L
Thorium-232	3.8E-02	1	UI			0	GP								pCi/L
Thorium-234	3.3E+02	1	UI			0	GP								pCi/L
Tritium	9.5E+03	1		■		2	GP	9.1E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.3E-01	1	UI			0	GP								pCi/L
Uranium-235	1.1E-01	1	UI			0	GP								pCi/L
Uranium-238	1.1E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.9E-05					0									pCi/L
Nickel-63	-7.4E-01					0									pCi/L
Plutonium-241	4.6E-02					0									pCi/L
Plutonium-242	2.3E-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 HSB116D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72898.1 E55988.2	33.278354 °N 81.660975 °W	234.5-214.5 ft msl	256.8 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation			ft msl
pH			pH
Sp. conductance			µS/cm
Water temperature			°C
Alkalinity as $CaCO_3$			mg/L
Turbidity			NTU
Volume purged			well volumes
Sampling code			
Synchronous water level	223.0 (09/28/94)	224.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene															
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

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

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB116D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha															
Nonvolatile beta															

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB117A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72733.6 E55170.1	33.276655 °N 81.662810·°W	94.8-84.8 ft msl	237.3 ft msl	4" PVC	S	M. Congaree (IIA)

SAMPLE DATE	07/13/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	165.9	166.0	ft msl
pH	6.8	6.7	pH
Sp. conductance	150	162	µS/cm
Water temperature	18.9	18.6	°C
Alkalinity as $CaCO_3$	55	54	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	6.8	3.9	well volumes
Sampling code			
Synchronous water level	165.7 (09/28/94)	166.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.0	1	JY3		•	0	WA	7.1	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB117A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.9E-02	1	UI			0	GP	-6.0E-03	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	1.5E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	UI			0	GP	3.6E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB117C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72740.7 E55162.9	33.276659 °N 81.662842 °W	175.1-165.1 ft msl	237.4 ft msl	4" PVC	V	Barnwell (IIB$_1$)

SAMPLE DATE	07/13/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	219.0	221.5	ft msl
pH	4.6	4.6	pH
Sp. conductance	445	471	µS/cm
Water temperature	19.3	19	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.2	NTU
Volume purged	2.4	2.4	well volumes
Sampling code			
Synchronous water level	218.8 (09/28/94)	220.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	78	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	5.8	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	32	1	Y	■		2	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	16	1	VY			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	680	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	43,000	100	Y	■		2	WA	51,000	40		■		2	GE	µg/L
pH	4.6	1	JY3	■	●	0	WA	5.0	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB117C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+01	1		■		2	GP	2.1E+01	1		■		2	GP	pCi/L
Nonvolatile beta	5.7E+01	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	-1.2E+00	1	UI			0	GP								pCi/L
Curium-242	2.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	3.0E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	6.4E+00	1		■		2	GP								pCi/L
Plutonium-238	4.5E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	3.2E-02	1	UI			0	GP								pCi/L
Radium-226	5.0E+00	1				0	GP								pCi/L
Radium-228	5.5E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.9E-01	1	UI			0	GP								pCi/L
Strontium-90	5.0E-01	1	UI			0	GP								pCi/L
Technetium-99	1.1E+02	1				0	GP								pCi/L
Thorium-228	5.8E-02	1	UI			0	GP								pCi/L
Thorium-230	9.3E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	8.7E+01	1	UI			0	GP								pCi/L
Tritium	8.8E+03	1		■		2	GP	8.9E+03	1		■		2	GP	pCi/mL
Uranium-233/234	0.0E+00	1	UI			0	GP								pCi/L
Uranium-235	-9.5E-02	1	UI			0	GP								pCi/L
Uranium-238	0.0E+00	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.9E-05					0									pCi/L
Nickel-63	-1.2E+00					0									pCi/L
Plutonium-241	1.3E-01					0									pCi/L
Plutonium-242	6.4E-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 HSB117D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72747.6 E55155.6	33.276662 °N 81.662875·°W	220.3-200.3 ft msl	237.6 ft msl	4" PVC	S	Water Table (HB_2)

SAMPLE DATE	07/13/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.5	224.5	ft msl
pH	5.3	5.1	pH
Sp. conductance	39	29	µS/cm
Water temperature	18.8	19.3	°C
Alkalinity as $CaCO_3$	0	1	mg/L
Turbidity	6.4	3	NTU
Volume purged	12	5.9	well volumes
Sampling code			
Synchronous water level	220.2 (09/28/94)	222.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	74	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	1,900	5	Y			0	WA	900	1				0	GE	µg/L
pH	5.3	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB117D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.0E-01	1	UI			0	GP	1.7E-02	1	UI			0	GP	pCi/L
Nonvolatile beta	2.3E+00	1	J3			0	GP	7.1E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.7E+02	1		■		2	GP	6.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB118A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72696.4 E55775.6	33.277561 °N 81.661143 °W	101.0-91.0 ft msl	247.3 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/11/94	10/11/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	167.2	167.0	ft msl
pH	6.6	6.6	pH
Sp. conductance	340	314	µS/cm
Water temperature	19.9	19.2	°C
Alkalinity as $CaCO_3$	23	36	mg/L
Turbidity	0.3	0.2	NTU
Volume purged	3.9	4.4	well volumes
Sampling code			
Synchronous water level	166.9 (09/28/94)	167.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	21,000	100	Y	■		2	WA	20,000	20		■		2	GE	µg/L
pH	6.6	1	JY3	■	●	0	WA	7.0	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB118A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.1E-01	1	UI			0	GP	2.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.5E+01	1				0	GP	1.9E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	9.0E+03	1		■		2	GP	9.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB119A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73082.5 E56100.2	33.278944 °N 81.661038 °W	103.3-93.3 ft msl	257.1 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/12/94	10/12/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	166.4	166.3	ft msl
pH	6.6	6.5	pH
Sp. conductance	155	160	µS/cm
Water temperature	22.1	18.6	°C
Alkalinity as $CaCO_3$	14	33	mg/L
Turbidity	0.7	0.5	NTU
Volume purged	0.81	0.88	well volumes
Sampling code	X	X	
Synchronous water level	166.3 (09/28/94)	166.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	4.3	1	Y			0	WA								µg/L
Barium, total recoverable	11	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	48	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	43	1	Y			1	WA								µg/L
Nitrate as nitrogen	5,100	10	Y			1	WA	5,200	5				1	GE	µg/L
pH	6.7	1	JY3	■	●	0	WA	6.8	1	J1		●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	1.2	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB119A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E-01	1	UI			0	GP	9.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+01	1				0	GP	1.1E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-3.9E-03	1	UI			0	GP								pCi/L
Cobalt-60	5.4E-02	1	UI			0	GP								pCi/L
Curium-242	7.7E-03	1	UI			0	GP								pCi/L
Curium-243/244	-9.3E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.9E-01	1	UI			0	GP								pCi/L
Plutonium-238	0.0E+00	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.9E-03	1	UI			0	GP								pCi/L
Radium-226	2.7E-01	1	UI			0	GP								pCi/L
Radium-228	-2.6E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.2E-01	1	UI			0	GP								pCi/L
Strontium-90	6.0E-02	1	UI			0	GP								pCi/L
Technetium-99	3.7E+01	1	J3			0	GP								pCi/L
Thorium-228	4.0E-02	1	UI			0	GP								pCi/L
Thorium-230	3.3E-02	1	UI			0	GP								pCi/L
Thorium-232	5.8E-02	1	UI			0	GP								pCi/L
Thorium-234	1.7E+01	1	UI			0	GP								pCi/L
Tritium	4.6E+02	1		■		2	GP	4.6E+02	1		■		2	GP	pCi/mL
Uranium-233/234	2.4E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.8E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.8E-05					0									pCi/L
Nickel-63	5.4E-02					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 HSB120A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73395.1 E56431.9	33.280177 °N 81.660772 °W	101.0-91.0 ft msl	268.2 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/12/94	10/11/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	165.9	165.7	ft msl
pH	7.3	7.2	pH
Sp. conductance	225	222	µS/cm
Water temperature	20.8	19.3	°C
Alkalinity as $CaCO_3$	68	86	mg/L
Turbidity	0.5	0.9	NTU
Volume purged	3.8	3.4	well volumes
Sampling code			
Synchronous water level	165.5 (09/28/94)	165.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.0	1	Y			0	WA								µg/L
Barium, total recoverable	36	1				0	GE								µg/L
Cadmium, total recoverable	<2.0	1				0	GE								µg/L
Chromium, total recoverable	<4.0	1				0	GE								µg/L
Lead, total recoverable	<3.0	1				0	GE								µg/L
Lindane	<0.054	1.08	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1				0	GE	<0.20	1				0	GE	µg/L
Selenium, total recoverable	2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1				0	GE								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<2.0	1				0	GE								µg/L
Benzene	<1.0	1				0	GE								µg/L
Cobalt, total recoverable	<4.0	1				0	GE								µg/L
Copper, total recoverable	<4.0	1				0	GE								µg/L
Cyanide	<5.0	1				0	GE								µg/L
Nickel, total recoverable	<4.0	1				0	GE								µg/L
Tin, total recoverable	2.7	1	J3			0	GE								µg/L
Trichloroethylene	<1.0	1				0	GE								µg/L
Trichlorofluoromethane	<1.0	1				0	GE								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	19	1				0	GE								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	51	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.6	1	JY3		•	0	WA	7.4	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.8	1				0	GE								µg/L
Dichloromethane	<1.0	1				0	GE								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB120A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E+00	1	J1			0	TM	9.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	5.2E+00	1	V			0	TM	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-3.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN								pCi/L
Curium-242	-1.7E-03	1	UI			0	GP								pCi/L
Curium-243/244	-1.7E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.1E-01	1				0	CN								pCi/L
Iodine-129	-4.8E-02	1	UI			0	GP								pCi/L
Plutonium-238	6.3E-04	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	5.5E-01	1	V			0	TM								pCi/L
Radium-228	1.7E+00	1	V			0	TM								pCi/L
Strontium-89	-5.0E-02	1	UI			0	CN								pCi/L
Strontium-90	-4.3E-02	1	UIV			0	CN								pCi/L
Technetium-99	2.4E+00	1	UJI			0	CN								pCi/L
Thorium-228	2.1E-01	1	V			0	CN								pCi/L
Thorium-230	5.1E-01	1	V			0	CN								pCi/L
Thorium-232	5.4E-02	1				0	CN								pCi/L
Thorium-234	1.3E+02	1				0	CN								pCi/L
Tritium	-1.0E-01	1	UI			0	TM	3.3E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	2.8E-01	1				0	CN								pCi/L
Uranium-235	-8.5E-03	1	UI			0	GP								pCi/L
Uranium-238	1.1E-01	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.0E-05					0									pCi/L
Nickel-63	0.0E+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 HSB121A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72024.8 E57389.6	33.278709 °N 81.655589·°W	98.3-88.3 ft msl	274.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/15/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	171.0	170.9	ft msl
pH	7.5	7.4	pH
Sp. conductance	230	243	µS/cm
Water temperature	20.3	19.7	°C
Alkalinity as $CaCO_3$	63	89	mg/L
Turbidity	0.2	0.1	NTU
Volume purged	3.7	3.7	well volumes
Sampling code			
Synchronous water level	170.8 (09/28/94)	171.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	33	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.054	1.08	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	5.9	1	Y	■		0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	19	1	Y	■		1	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<19	1	JVY2			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.2	1	JY3		•	0	WA	7.4	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB121A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+00	1	J3			0	GP	1.1E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	9.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-4.1E-03	1	UI			0	GP								pCi/L
Cobalt-60	-3.9E-02	1	UI			0	GP								pCi/L
Curium-242	1.9E-02	1	UI			0	GP								pCi/L
Curium-243/244	-2.9E-02	1	UI			0	GP								pCi/L
Curium-245/246	-4.1E-03	1	UI			0	GP								pCi/L
Iodine-129	2.4E-01	1	UI			0	GP								pCi/L
Plutonium-238	7.7E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	-5.9E-03	1	UI			0	GP								pCi/L
Radium-226	7.3E-01	1	UI			0	GP								pCi/L
Radium-228	2.8E-01	1	UI			0	GP								pCi/L
Strontium-89	-4.3E-01	1	UI			0	GP								pCi/L
Strontium-90	4.5E-01	1	UI			0	GP								pCi/L
Technetium-99	1.3E+01	1	UI			0	GP								pCi/L
Thorium-228	4.3E-02	1	UI			0	GP								pCi/L
Thorium-230	6.5E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.1E+02	1	UI			0	GP								pCi/L
Tritium	1.5E-02	1	UI			0	GP	1.1E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	5.2E-01	1	UI			0	GP								pCi/L
Uranium-235	9.0E-02	1	UI			0	GP								pCi/L
Uranium-238	3.6E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-8.6E-05					0									pCi/L
Nickel-63	-3.9E-02					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 HSB122A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72195.9 E57747.4	33.279671 °N 81.654979 °W	95.4-85.4 ft msl	271.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/15/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	170.7	170.6	ft msl
pH	7.2	7.1	pH
Sp. conductance	225	235	µS/cm
Water temperature	19.8	19.5	°C
Alkalinity as $CaCO_3$	63	88	mg/L
Turbidity	0.2	0.1	NTU
Volume purged	4.3	3.8	well volumes
Sampling code			
Synchronous water level	170.6 (09/28/94)	171.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	23	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.09	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	150	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.1	1	JY3		•	0	WA	7.4	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	<40	1	JVY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB122A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.6E-01	1	J3			0	GP	2.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	3.4E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	7.8E-02	1	UI			0	GP								pCi/L
Cobalt-60	-3.7E-02	1	UI			0	GP								pCi/L
Curium-242	2.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	9.3E-03	1	UI			0	GP								pCi/L
Curium-245/246	-7.2E-03	1	UI			0	GP								pCi/L
Iodine-129	1.5E-01	1	UI			0	GP								pCi/L
Plutonium-238	8.8E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	2.8E-02	1	UI			0	GP								pCi/L
Radium-226	9.4E-01	1	UI			0	GP								pCi/L
Radium-228	2.1E-01	1	UI			0	GP								pCi/L
Strontium-89	7.0E-02	1	UI			0	GP								pCi/L
Strontium-90	2.7E-01	1	UI			0	GP								pCi/L
Technetium-99	6.8E+00	1	UI			0	GP								pCi/L
Thorium-228	4.0E-02	1	UI			0	GP								pCi/L
Thorium-230	9.0E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	2.0E+01	1	UI			0	GP								pCi/L
Tritium	2.5E-01	1	UI			0	GP	3.7E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	4.6E-01	1	UI			0	GP								pCi/L
Uranium-235	9.6E-02	1	UI			0	GP								pCi/L
Uranium-238	1.9E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.8E-05					0									pCi/L
Nickel-63	-3.7E-02					0									pCi/L
Plutonium-241	1.1E-01					0									pCi/L
Plutonium-242	5.5E-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 HSB123A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72189.8 E58124.8	33.280273 °N 81.653973 °W	103.6-93.6 ft msl	265.7 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/15/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	171.2	171.6	ft msl
pH	11.9	11.9	pH
Sp. conductance	1,211	1,610	µS/cm
Water temperature	20.5	18.2	°C
Alkalinity as $CaCO_3$	252	253	mg/L
Turbidity	1.3	4.4	NTU
Volume purged	0.73	0.72	well volumes
Sampling code	X	X	
Synchronous water level	171.2 (09/28/94)	171.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	310	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	7.6	1	Y	■		0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<19	1	JVY2			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	53	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	12	1	JY3	■	●	2	WA	12	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB123A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.1E+00	1	J3			0	GP	1.0E+01	1				1	GP	pCi/L
Nonvolatile beta	3.7E+00	1				0	GP	6.4E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	-5.8E-02	1	UI			0	GP								pCi/L
Curium-242	-4.8E-03	1	UI			0	GP								pCi/L
Curium-243/244	3.5E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	6.5E-01	1	UI			0	GP								pCi/L
Plutonium-238	2.6E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-3.3E-02	1	UI			0	GP								pCi/L
Radium-226	4.5E+00	1				0	GP								pCi/L
Radium-228	-1.1E-01	1	UI			0	GP								pCi/L
Strontium-89	-1.0E-01	1	UI			0	GP								pCi/L
Strontium-90	2.8E-01	1	UI			0	GP								pCi/L
Technetium-99	1.2E+01	1	UI			0	GP								pCi/L
Thorium-228	2.8E-01	1	UI			0	GP								pCi/L
Thorium-230	1.1E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.1E+02	1				0	GP								pCi/L
Tritium	2.7E-01	1	UI			0	GP	6.8E-01	1	J			0	GP	pCi/mL
Uranium-233/234	4.2E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.4E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-04					0									pCi/L
Nickel-63	-5.8E-02					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 HSB124AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72202.7 E58531.7	33.280965 °N 81.652927 °W	104.6-94.6 ft msl	266.8 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/15/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	171.3	171.1	ft msl
pH	7.1	7.1	pH
Sp. conductance	235	247	µS/cm
Water temperature	19.9	19.7	°C
Alkalinity as $CaCO_3$	71	89	mg/L
Turbidity	0.2	0.1	NTU
Volume purged	4.6	4.9	well volumes
Sampling code			
Synchronous water level	171.1 (09/28/94)	171.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	34	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.055	1.09	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<19	1	JVY2			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.4	1	JY3		•	0	WA	7.3	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	<40	1	JVY2			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB124AR (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+00	1	J3			0	GP	1.1E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	3.7E+00	1				0	GP	1.7E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.9E-02	1	UI			0	GP								pCi/L
Cobalt-60	-5.8E-01	1	UI			0	GP								pCi/L
Curium-242	-5.1E-03	1	UI			0	GP								pCi/L
Curium-243/244	3.1E-03	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	6.7E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-4.9E-03	1	UI			0	GP								pCi/L
Radium-226	5.1E-01	1	UI			0	GP								pCi/L
Radium-228	4.2E-01	1	UI			0	GP								pCi/L
Strontium-89	-5.5E-01	1	UI			0	GP								pCi/L
Strontium-90	2.5E-01	1	UI			0	GP								pCi/L
Technetium-99	-1.9E+00	1	UJI			0	GP								pCi/L
Thorium-228	3.1E-01	1	UJI			0	GP								pCi/L
Thorium-230	4.2E-01	1	UJI			0	GP								pCi/L
Thorium-232	4.0E-02	1	UI			0	GP								pCi/L
Thorium-234	5.1E-01	1	UI			0	GP								pCi/L
Tritium	4.0E-02	1	UI			0	GP	1.5E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	1.4E-01	1	UI			0	GP								pCi/L
Uranium-235	-1.1E-02	1	UI			0	GP								pCi/L
Uranium-238	3.5E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	9.3E-06					0									pCi/L
Nickel-63	-5.8E-01					0									pCi/L
Plutonium-241	-1.9E-02					0									pCi/L
Plutonium-242	-9.7E-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 HSB125C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71503.6 E58592.8	33.279519 °N 81.651408 °W	155.6-145.6 ft msl	231.9 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/11/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	222.1	222.1	ft msl
pH	5.7	5.5	pH
Sp. conductance	44	30	µS/cm
Water temperature	19.4	19.2	°C
Alkalinity as $CaCO_3$	7	2	mg/L
Turbidity	1.6	1.9	NTU
Volume purged	4.3	2.7	well volumes
Sampling code			
Synchronous water level	222.0 (09/28/94)	222.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	40	1	Y			1	WA								µg/L
Nitrate as nitrogen	73	1	Y			0	WA	83	1	J			0	GE	µg/L
pH	6.2	1	JY3	■	●	0	WA	6.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB125C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.9E-01	1	UI			0	GP	-1.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	J			0	GP	-2.3E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.5E+00	1				0	GP	3.2E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB125D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71498.2 E58584.1	33.279492 °N 81.651421 °W	219.4-199.4 ft msl	231.7 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/11/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.1	220.2	ft msl
pH	4.9	5.3	pH
Sp. conductance	371	308	µS/cm
Water temperature	18.7	19	°C
Alkalinity as $CaCO_3$	0	1	mg/L
Turbidity	0.4	0.5	NTU
Volume purged	3.7	1.9	well volumes
Sampling code			
Synchronous water level	220.0 (09/28/94)	220.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	9.4	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.054	1.08	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	2.9	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	24	1	Y	■		2	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<19	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	61	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	30,000	100	Y	■		2	WA	23,000	40		■		2	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1				0	GE								µg/L
Dichloromethane	1.4	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB125D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.5E+00	1	J3			0	GP	1.1E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	1.6E+01	1				0	GP	3.9E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.1E-01	1	UI			0	GP								pCi/L
Cobalt-60	-2.7E-01	1	UI			0	GP								pCi/L
Curium-242	-4.6E-02	1	UI			0	GP								pCi/L
Curium-243/244	-1.9E-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	J3	■		2	GP								pCi/L
Plutonium-238	4.0E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	8.9E-03	1	UI			0	GP								pCi/L
Radium-226	2.3E-01	1	UI			0	GP								pCi/L
Radium-228	8.3E-01	1	UI			0	GP								pCi/L
Strontium-89	4.7E-01	1	UI			0	GP								pCi/L
Strontium-90	1.7E+00	1	UI			0	GP								pCi/L
Technetium-99	1.3E+02	1				0	GP								pCi/L
Thorium-228	5.6E-02	1	UI			0	GP								pCi/L
Thorium-230	2.7E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.6E-02	1	UI			0	GP								pCi/L
Thorium-234	6.1E+01	1	UI			0	GP								pCi/L
Tritium	3.0E+03	1		■		2	GP	2.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234	4.0E-02	1	UI			0	GP								pCi/L
Uranium-235	-1.8E-02	1	UI			0	GP								pCi/L
Uranium-238	7.6E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-5.8E-05					0									pCi/L
Nickel-63	-2.7E-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 HSB126C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70627.7 E57178.2	33.275273 °N 81.653432 °W	181.3-176.3 ft msl	212.6 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/12/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	203.5	204.3	ft msl
pH	7.7	7.8	pH
Sp. conductance	244	253	µS/cm
Water temperature	18.9	18	°C
Alkalinity as $CaCO_3$	58	6	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.1	3.3	well volumes
Sampling code			
Synchronous water level	203.5 (09/28/94)	204.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	7,100	10	Y			1	WA	7,800	10				1	GE	µg/L
pH	7.5	1	JY3		•	0	WA	8.0	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB126C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	-5.8E-01	1	UI			0	GP	4.1E+00	1				0	GP	pCi/L
Nonvolatile beta	4.6E+00	1				0	GP	1.0E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.9E+02	1		■		2	GP	4.0E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB126D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70633.4 E57169.6	33.275272 °N 81.653466 °W	200.5-190.5 ft msl	212.7 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/12/94	10/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	204.5	205.8	ft msl
pH	5.1	4.5	pH
Sp. conductance	385	393	µS/cm
Water temperature	20.1	17.9	°C
Alkalinity as $CaCO_3$	1	0	mg/L
Turbidity	2.3	2.6	NTU
Volume purged	0.54	0.80	well volumes
Sampling code	X	X	
Synchronous water level	204.2 (09/28/94)	205.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	57	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	5.6	1	Y			0	WA								µg/L
Lead, total recoverable	38	1	Y			1	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	4.0	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	4.2	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	12	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	22	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	380	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	38,000	100	Y	■		2	WA	42,000	40		■		2	GE	µg/L
pH	5.1	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<10	1	Y			0	GE								µg/L
Dichloromethane	1.4	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB126D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E+00	1	J3			0	GP	2.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.7E+01	1				0	GP	7.5E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	4.7E-02	1	UI			0	GP								pCi/L
Cobalt-60	-7.6E-01	1	UI			0	GP								pCi/L
Curium-242	0.0E+00	1	UI			0	GP								pCi/L
Curium-243/244	3.9E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	2.1E+01	1		■		2	GP								pCi/L
Plutonium-238	3.2E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.6E+00	1	J3			0	GP								pCi/L
Radium-228	1.4E+00	1	J3			0	GP								pCi/L
Strontium-89	-1.9E-01	1	UI			0	GP								pCi/L
Strontium-90	6.8E-01	1	UI			0	GP								pCi/L
Technetium-99	6.8E+01	1	J3			0	GP								pCi/L
Thorium-228	2.2E-02	1	UI			0	GP								pCi/L
Thorium-230	2.0E-01	1	UI			0	GP								pCi/L
Thorium-232	5.7E-03	1	UI			0	GP								pCi/L
Thorium-234	7.3E+01	1	UI			0	GP								pCi/L
Tritium	4.2E+03	1		■		2	GP	3.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234	7.7E-02	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	3.9E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.2E-04					0									pCi/L
Nickel-63	-7.6E-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 HSB127C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71210.1 E56792.1	33.275932 °N 81.655580 °W	158.4-148.4 ft msl	225.7 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/12/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	209.5	210.2	ft msl
pH	7.8	7.7	pH
Sp. conductance	280	294	µS/cm
Water temperature	20.4	19.4	°C
Alkalinity as $CaCO_3$	69	77	mg/L
Turbidity	0.2	0.7	NTU
Volume purged	4.4	3.4	well volumes
Sampling code			
Synchronous water level	209.4 (09/28/94)	210.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	JY			0	WA	0.35	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	8,700	20	Y			1	WA	8,900	10				1	GE	µg/L
pH	6.0	1	JY3	■	●	0	WA	7.8	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB127C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.6E-01	1	UI			0	GP	-1.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.3E+00	1	J3			0	GP	2.3E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.0E+03	1		■		2	GP	1.0E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB127D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71218.9 E56788.0	33.275945 °N 81.655608 °W	217.8-197.8 ft msl	226.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/12/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	216.9	218.7	ft msl
pH	4.7	4.8	pH
Sp. conductance	201	155	µS/cm
Water temperature	19.7	20.2	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	1.1	NTU
Volume purged	8.4	8.0	well volumes
Sampling code			
Synchronous water level	216.9 (09/28/94)	217.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	11	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	JY			0	WA	2.7	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	6.1	1	Y	■		0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<19	1	JVY3			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	65	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	17,000	25	Y	■		2	WA	13,000	10		■		2	GE	µg/L
pH	5.2	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB127D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.4E+00	1				0	GP	9.3E+00	1				1	GP	pCi/L
Nonvolatile beta	5.3E+01	1		■		2	GP	4.8E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	4.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	8.9E-01	1	UI			0	GP								pCi/L
Curium-242	5.1E-02	1	UI			0	GP								pCi/L
Curium-243/244	-9.7E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	8.4E+00	1		■		2	GP								pCi/L
Plutonium-238	-7.3E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	1.4E-02	1	UI			0	GP								pCi/L
Radium-226	1.3E+00	1	J3			0	GP								pCi/L
Radium-228	9.7E-01	1	UI			0	GP								pCi/L
Strontium-89	1.9E+00	1	UI			0	GP								pCi/L
Strontium-90	1.1E+01	1		■		2	GP								pCi/L
Technetium-99	6.5E+01	1	J3			0	GP								pCi/L
Thorium-228	6.3E-02	1	UI			0	GP								pCi/L
Thorium-230	1.4E-01	1	UI			0	GP								pCi/L
Thorium-232	-4.6E-03	1	UI			0	GP								pCi/L
Thorium-234	8.8E+00	1	UI			0	GP								pCi/L
Tritium	3.7E+03	1		■		2	GP	1.8E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.7E-01	1	UI			0	GP								pCi/L
Uranium-235	0.0E+00	1	UI			0	GP								pCi/L
Uranium-238	1.3E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.9E-05					0									pCi/L
Nickel-63	8.9E-01					0									pCi/L
Plutonium-241	5.6E-02					0									pCi/L
Plutonium-242	2.8E-07					0									pCi/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB129C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71830.4 E55110.0	33.274559 °N 81.661214 °W	157.8-147.8 ft msl	215.1 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/14/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	204.7	206.2	ft msl
pH	5.9	6	pH
Sp. conductance	196	203	µS/cm
Water temperature	18.5	16.3	°C
Alkalinity as $CaCO_3$	13	11	mg/L
Turbidity	2.2	2	NTU
Volume purged	0.80	0.78	well volumes
Sampling code	X	X	
Synchronous water level	204.8 (09/28/94)	205.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	91	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	14,000	25	Y	■		2	WA	21,000	20		■		2	GE	µg/L
pH	6.2	1	JY3	■	●	0	WA	6.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB129C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	2.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.9E+01	1				1	GP	4.7E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.9E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB129D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71837.1 E55103.4	33.274563 °N 81.661244·°W	205.2-185.2 ft msl	214.7 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/13/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	206.4	209.2	ft msl
pH	4.6	4.9	pH
Sp. conductance	267	268	µS/cm
Water temperature	19.4	18.7	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.8	0.6	NTU
Volume purged	3.5	5.9	well volumes
Sampling code			
Synchronous water level	207.0 (09/28/94)	208.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.34	1	Y			0	WA	0.35	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	110	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	26,000	50	Y	■		2	WA	25,000	20	Y	■		2	GE	µg/L
pH	4.9	1	JY3	■	●	0	WA	5.0	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB129D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.3E+00	1	J3			0	GP	2.4E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.0E+01	1				1	GP	3.0E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.6E+03	1		■		2	GP	3.6E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB130C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70762.4 E54643.6	33.271436 °N 81.660367 °W	169.9-159.9 ft msl	218.3 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/14/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	199.6	200.1	ft msl
pH	8	7.6	pH
Sp. conductance	183	186	µS/cm
Water temperature	19.2	18.9	°C
Alkalinity as $CaCO_3$	72	67	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	2.8	3.6	well volumes
Sampling code			
Synchronous water level	199.7 (09/28/94)	199.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	200	1	Y			0	WA	190	1				0	GE	µg/L
pH	7.8	1	JY3		•	0	WA	6.8	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB130C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.6E-01	1	UI			0	GP	5.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.1E+00	1	UI			0	GP	1.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	9.7E-01	1	J3			0	GP	1.4E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB130D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70757.2 E54651.7	33.271438 °N 81.660336 °W	202.1-182.1 ft msl	218.6 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/14/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	199.8	200.5	ft msl
pH	6.3	6.2	pH
Sp. conductance	68	106	µS/cm
Water temperature	19.6	19.4	°C
Alkalinity as $CaCO_3$	19	24	mg/L
Turbidity	0.4	0.2	NTU
Volume purged	2.9	3.5	well volumes
Sampling code			
Synchronous water level	199.7 (09/28/94)	200.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	30	1	Y			1	WA								µg/L
Nitrate as nitrogen	410	1	Y			0	WA	350	1				0	GE	µg/L
pH	6.7	1	JY3	■	●	0	WA	6.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB130D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.6E-02	1	UI			0	GP	7.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.7E-02	1	UI			0	GP	6.7E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	8.6E+00	1				0	GP	9.5E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB131C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70374.7 E56894.9	33.274252 °N 81.653687 °W	158.5-148.5 ft msl	211.7 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	203.4	204.1	ft msl
pH	7.9	7.8	pH
Sp. conductance	239	245	µS/cm
Water temperature	18.5	18	°C
Alkalinity as $CaCO_3$	72	81	mg/L
Turbidity	0.6	0.4	NTU
Volume purged	6.4	5.4	well volumes
Sampling code			
Synchronous water level	203.2 (09/28/94)	203.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	2,900	10	Y			0	WA	3,000	2				0	GE	µg/L
pH	7.5	1	JY3		•	0	WA	7.9	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB131C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.8E-01	1	UI			0	GP	2.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	4.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.6E+02	1		■		2	GP	1.7E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB131D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70365.0 E56891.1	33.274224 °N 81.653678 °W	205.7-195.7 ft msl	212.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	204.3	204.0	ft msl
pH	5.2	5.1	pH
Sp. conductance	28	39	µS/cm
Water temperature	20.9	20.9	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.4	2.9	NTU
Volume purged	12	9.9	well volumes
Sampling code			
Synchronous water level	203.8 (09/28/94)	204.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	52	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	320	1	Y			0	WA	170	1				0	GE	µg/L
pH	5.4	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB131D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.4E-01	1	UI			0	GP	9.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	2.8E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.0E+01	1				1	GP	6.6E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB132C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71472.4 E58787.7	33.279768 °N 81.650835 °W	178.6-168.6 ft msl	240.5 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/19/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.5	221.5	ft msl
pH	5.4	5.6	pH
Sp. conductance	39	35	µS/cm
Water temperature	19.5	17.3	°C
Alkalinity as $CaCO_3$	3	4	mg/L
Turbidity	6.3	5.4	NTU
Volume purged	0.94	0.92	well volumes
Sampling code	X	X	
Synchronous water level	220.5 (09/28/94)	221.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	5.5	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	79	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	40	1	Y			0	WA	66	1	J3			0	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB132C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.9E-01	1	UI			0	GP	5.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.3E+00	1	UI			0	GP	-1.4E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	7.1E-02	1	UI			0	GP	2.3E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB132D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71469.5 E58799.3	33.279780 °N 81.650798 °W	226.5-206.5 ft msl	240.7 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.1	221.0	ft msl
pH	5.1	5.1	pH
Sp. conductance	24	22	µS/cm
Water temperature	18.9	17	°C
Alkalinity as $CaCO_3$	1	2	mg/L
Turbidity	14.2	4.2	NTU
Volume purged	0.79	0.84	well volumes
Sampling code	X	X	
Synchronous water level	220.0 (09/28/94)	220.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	9.4	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	48	1	Y			1	WA								µg/L
Nitrate as nitrogen	580	1	Y			0	WA	800	1				0	GE	µg/L
pH	5.4	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB132D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.8E-01	1	UI			0	GP	1.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	5.4E-01	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

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

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB133C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71949.5 E59110.3	33.281349 °N 81.650912 °W	183.3-173.3 ft msl	255.6 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/15/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	229.1	229.2	ft msl
pH	5.9	6.2	pH
Sp. conductance	46	54	µS/cm
Water temperature	19.7	19.4	°C
Alkalinity as $CaCO_3$	11	10	mg/L
Turbidity	0.3	0.3	NTU
Volume purged	3.1	3.1	well volumes
Sampling code			
Synchronous water level	229.1 (09/28/94)	230.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1				0	GE								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1				0	GE								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1				0	GE								µg/L
Lindane															
Mercury, total recoverable	<0.20	1				0	GE	0.56	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1				0	GE								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene	1.2	1	J3			0	GE								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	72	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.3	1	JY3	■	●	0	WA	6.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB133C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	-2.3E-02	1	UI			0	GP	-8.5E-03	1	UI			0	GP	pCi/L
Nonvolatile beta	2.0E+00	1				0	TM	1.8E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	4.3E-01	1	V			0	TM	2.9E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB133D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71943.5 E59102.3	33.281323 °N 81.650921 °W	228.5-208.5 ft msl	255.3 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/15/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	233.9	233.9	ft msl
pH	5.3	5.5	pH
Sp. conductance	67	74	µS/cm
Water temperature	19.3	18.8	°C
Alkalinity as $CaCO_3$	4	4	mg/L
Turbidity	2.2	1.4	NTU
Volume purged	2.8	3.3	well volumes
Sampling code			
Synchronous water level	233.8 (09/28/94)	234.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	60	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	460	1	Y			0	WA	400	1				0	GE	µg/L
pH	5.5	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB133D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1	J3			0	GP	3.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.2E-01	1	UI			0	GP	9.8E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E+01	1		■		2	GP	2.3E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB134C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71210.3 E58289.9	33.278376 °N 81.651636 °W	159.1-149.1 ft msl	238.4 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/13/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	219.6	219.6	ft msl
pH	5.7	5.6	pH
Sp. conductance	46	43	µS/cm
Water temperature	19.8	18.9	°C
Alkalinity as $CaCO_3$	6	3	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.4	2.5	well volumes
Sampling code			
Synchronous water level	219.5 (09/28/94)	220.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	31	1	Y			1	WA								µg/L
Nitrate as nitrogen	1,100	5	Y			0	WA	1,400	1				0	GE	µg/L
pH	7.5	1	JY3		•	0	WA	5.8	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB134C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.7E-01	1	UI			0	GP	8.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	8.6E-01	1	UI			0	GP	1.7E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.4E+01	1		■		2	GP	3.3E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB134D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71217.3 E58296.5	33.278402 °N 81.651633 °W	225.8-205.8 ft msl	238.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/13/94	10/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.3	220.5	ft msl
pH	4.3	4.3	pH
Sp. conductance	144	185	µS/cm
Water temperature	19.1	18.9	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.3	NTU
Volume purged	4.7	3.1	well volumes
Sampling code			
Synchronous water level	220.4 (09/28/94)	221.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	56	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	4.3	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	0.80	1	Y			0	WA	0.47	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	4.7	1	Y			0	WA								µg/L
Copper, total recoverable	5.9	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	4.2	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	7.7	1	VY			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	710	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	13,000	25	Y	■		2	WA	13,000	40		■		2	GE	µg/L
pH	4.3	1	JY3	■	●	0	WA	4.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB134D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.0E+00	1				0	GP	5.8E+00	1				0	GP	pCi/L
Nonvolatile beta	1.2E+03	1		■		2	GP	7.0E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	2.3E-02	1	UI			0	GP								pCi/L
Cobalt-60	9.4E-01	1	UI			0	GP								pCi/L
Curium-242	4.5E-02	1	UI			0	GP								pCi/L
Curium-243/244	7.1E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	9.3E+00	1		■		2	GP								pCi/L
Plutonium-238	-4.8E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	-4.8E-03	1	UI			0	GP								pCi/L
Radium-226	4.5E-01	1	UI			0	GP								pCi/L
Radium-228	2.0E+00	1				0	GP								pCi/L
Strontium-89	1.1E+02	1		■		2	GP								pCi/L
Strontium-90	4.0E+02	1		■		2	GP								pCi/L
Technetium-99	3.0E+01	1	J3			0	GP								pCi/L
Thorium-228	7.8E-02	1	UI			0	GP								pCi/L
Thorium-230	6.2E-02	1	UI			0	GP								pCi/L
Thorium-232	-5.6E-03	1	UI			0	GP								pCi/L
Thorium-234	1.7E+02	1	UI			0	GP								pCi/L
Tritium	1.3E+03	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.9E-01	1	UI			0	GP								pCi/L
Uranium-235	-1.2E-02	1	UI			0	GP								pCi/L
Uranium-238	3.5E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.1E-05					0									pCi/L
Nickel-63	9.4E-01					0									pCi/L
Plutonium-241	-1.9E-02					0									pCi/L
Plutonium-242	-9.6E-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 HSB135C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71390.2 E56560.8	33.275953 °N 81.656539 °W	157.3-147.3 ft msl	232 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/01/94	10/05/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	206.2	206.3	ft msl
pH	8	7.7	pH
Sp. conductance	206	213	µS/cm
Water temperature	20.5	19.5	°C
Alkalinity as $CaCO_3$	71	83	mg/L
Turbidity	23.3	9.3	NTU
Volume purged	7.9	6.7	well volumes
Sampling code			
Synchronous water level	206.2 (09/28/94)	206.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	910	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	870	1	Y			0	WA	390	1				0	GE	µg/L
pH	7.3	1	JY3		•	0	WA	8.0	1	J1		•	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB135C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.9E-01	1	UI			0	GP	6.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.1E+00	1	J3			0	GP	2.1E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	8.4E+01	1		■		2	GP	7.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB135D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71396.7 E56552.8	33.275954 °N 81.656572 °W	219.9-199.9 ft msl	232.3 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/01/94	10/05/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	217.2	217.2	ft msl
pH	5	4.8	pH
Sp. conductance	52	49	µS/cm
Water temperature	19.6	19.6	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	1.4	0.3	NTU
Volume purged	12	11	well volumes
Sampling code			
Synchronous water level	217.0 (09/28/94)	217.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.33	1	Y			0	WA	0.29	1	J			0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	220	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	3,200	5	Y			0	WA	2,000	4				0	GE	µg/L
pH	5.6	1	JY3	■	●	0	WA	5.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB135D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.8E-01	1	UI			0	GP	9.6E-01	1	J			0	GP	pCi/L
Nonvolatile beta	8.7E+01	1		■		2	GP	5.9E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	8.6E+01	1		■		2	GP	6.5E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB136C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71900.3 E55949.6	33.276084 °N 81.659139 °W	170.5-160.5 ft msl	227.9 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/14/94	10/18/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	215.9	217.0	ft msl
pH	10.1	9	pH
Sp. conductance	394	413	µS/cm
Water temperature	19.9	17.8	°C
Alkalinity as $CaCO_3$	17	25	mg/L
Turbidity	1.8	1	NTU
Volume purged	0.80	0.81	well volumes
Sampling code	X	X	
Synchronous water level	215.8 (09/28/94)	216.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	60	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.04	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	<19	1	JVY2			0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	50	1	Y			1	WA								µg/L
Nitrate as nitrogen	31,000	50	Y	■		2	WA	36,000	40		■		2	GE	µg/L
pH	9.6	1	JY3	■	●	1	WA	9.4	1	J1	■	●	1	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB136C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.2E+00	1	J3			0	GP	4.0E+00	1	J			0	GP	pCi/L
Nonvolatile beta	6.4E+01	1		■		2	GP	9.3E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.0E-01	1	UI			0	GP								pCi/L
Cobalt-60	1.4E+00	1	UI			0	GP								pCi/L
Curium-242	1.3E-02	1	UI			0	GP								pCi/L
Curium-243/244	-5.3E-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	-5.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.3E+00	1	J3			0	GP								pCi/L
Radium-228	-9.4E-01	1	UI			0	GP								pCi/L
Strontium-89	5.0E-02	1	UI			0	GP								pCi/L
Strontium-90	3.0E-01	1	UI			0	GP								pCi/L
Technetium-99	1.5E+02	1				0	GP								pCi/L
Thorium-228	5.9E-02	1	UI			0	GP								pCi/L
Thorium-230	6.6E-02	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	1.8E+02	1	UI			0	GP								pCi/L
Tritium	7.5E+03	1		■		2	GP	8.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234	5.1E-02	1	UI			0	GP								pCi/L
Uranium-235	8.3E-02	1	UI			0	GP								pCi/L
Uranium-238	1.9E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-1.6E-04					0									pCi/L
Nickel-63	1.4E+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 HSB136D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71906.0 E55941.7	33.276084 °N 81.659171 °W	220.2-200.2 ft msl	228 ft msl	4" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/13/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	219.2	220.5	ft msl
pH	4.1	4.4	pH
Sp. conductance	267	264	µS/cm
Water temperature	20	20.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.6	0.2	NTU
Volume purged	3.0	2.6	well volumes
Sampling code			
Synchronous water level	219.1 (09/28/94)	219.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	79	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	8.2	1	Y			0	WA								µg/L
Copper, total recoverable	4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	12	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	45	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	3,500	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	23,000	50	Y	■		2	WA	600,000	800	Y	■		2	GE	µg/L
pH	4.1	1	JY3	■	●	0	WA	5.1	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<11	1	Y			0	GE								µg/L
Dichloromethane	<5.0	1	Y			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB136D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.1E+01	1		■		2	GP	3.4E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.8E+03	1		■		2	GP	1.6E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.4E-01	1	UI			0	GP								pCi/L
Cobalt-60	6.8E+01	1				1	GP								pCi/L
Curium-242	0.0E+00	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	3.2E+01	1		■		2	GP								pCi/L
Plutonium-238	-1.5E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	2.7E+01	1		■		2	GP								pCi/L
Radium-228	8.5E+00	1				0	GP								pCi/L
Strontium-89	8.9E+01	1		■		2	GP								pCi/L
Strontium-90	7.1E+02	1		■		2	GP								pCi/L
Technetium-99	6.6E+01	1	J3			0	GP								pCi/L
Thorium-228	7.7E-02	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	3.2E+01	1	UI			0	GP								pCi/L
Tritium	6.9E+03	1		■		2	GP	3.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234	-6.8E-02	1	UI			0	GP								pCi/L
Uranium-235	3.4E-01	1	UI			0	GP								pCi/L
Uranium-238	3.2E-01	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	3.2E-04					0									pCi/L
Nickel-63	6.8E+01			■		2									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 HSB137C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72269.9 E55700.2	33.276494 °N 81.660513 °W	173.8-163.8 ft msl	236 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/14/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	218.2	219.8	ft msl
pH	8.4	8.4	pH
Sp. conductance	544	523	µS/cm
Water temperature	18.9	16.9	°C
Alkalinity as $CaCO_3$	26	32	mg/L
Turbidity	0.7	1.3	NTU
Volume purged	0.73	0.71	well volumes
Sampling code	X	X	
Synchronous water level	218.2 (09/28/94)	219.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	52	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane	<0.053	1.05	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	37	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	48,000	50	Y	■		2	WA	49,000	40		■		2	GE	µg/L
pH	7.9	1	JY3		•	0	WA	8.3	1	J1		•	1	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB137C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.9E+00	1	J3			0	GP	3.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	5.3E+01	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	7.0E-02	1	UI			0	GP								pCi/L
Cobalt-60	-1.3E+00	1	UI			0	GP								pCi/L
Curium-242	2.8E-02	1	UI			0	GP								pCi/L
Curium-243/244	2.7E-03	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	1.1E+01	1		■		2	GP								pCi/L
Plutonium-238	-9.7E-03	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	9.9E-01	1	UI			0	GP								pCi/L
Radium-228	-8.1E-01	1	UI			0	GP								pCi/L
Strontium-89	-5.1E-01	1	UI			0	GP								pCi/L
Strontium-90	6.4E-01	1	UI			0	GP								pCi/L
Technetium-99	2.0E+02	1				0	GP								pCi/L
Thorium-228	7.2E-02	1	UI			0	GP								pCi/L
Thorium-230	2.8E-01	1	UI			0	GP								pCi/L
Thorium-232	0.0E+00	1	UI			0	GP								pCi/L
Thorium-234	3.6E+01	1	UI			0	GP								pCi/L
Tritium	1.3E+04	1		■		2	GP	1.2E+04	1		■		2	GP	pCi/mL
Uranium-233/234	1.0E-01	1	UI			0	GP								pCi/L
Uranium-235	2.7E-02	1	UI			0	GP								pCi/L
Uranium-238	-1.2E-02	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.0E-06					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 HSB137D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72278.9 E55696.1	33.276508 °N 81.660542 °W	225.3-205.3 ft msl	236.6 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/13/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	219.9	221.7	ft msl
pH	4.9	5.1	pH
Sp. conductance	195	165	µS/cm
Water temperature	18.8	18.9	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.2	0.6	NTU
Volume purged	5.9	7.9	well volumes
Sampling code			
Synchronous water level	219.8 (09/28/94)	221.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	7.7	1	JY			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	120	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	19,000	25	Y	■		2	WA	500,000	800	Y	■		2	GE	µg/L
pH	5.1	1	JY3	■	●	0	WA	4.3	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB137D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E+00	1	J3			0	GP	3.7E+01	1		■		2	GP	pCi/L
Nonvolatile beta	2.2E+02	1		■		2	GP	1.7E+03	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	4.6E+03	1		■		2	GP	5.1E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB138D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73160.2 E55260.7	33.277746 °N 81.663400 °W	228.1-208.1 ft msl	252.4 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/13/94	10/19/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	222.1	223.4	ft msl
pH	5.4	5.9	pH
Sp. conductance	20	27	µS/cm
Water temperature	18.4	18.2	°C
Alkalinity as $CaCO_3$	2	5	mg/L
Turbidity	3.5	2.3	NTU
Volume purged	0.65	0.70	well volumes
Sampling code	X	X	
Synchronous water level	221.6 (09/28/94)	223.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	42	1	Y			1	WA								µg/L
Nitrate as nitrogen	61	1	Y			0	WA	600	1				0	GE	µg/L
pH	6.5	1	JY3	■	●	0	WA	6.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB138D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E-01	1	UI			0	GP	1.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.6E+00	1	UI			0	GP	7.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.2E+01	1		■		2	GP	4.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB139A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71127.4 E57365.4	33.276684 °N 81.653910 °W	97.6-87.6 ft msl	233.7 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/18/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	173.1	173.0	ft msl
pH	7.6	7.8	pH
Sp. conductance	243	251	µS/cm
Water temperature	19.2	18.4	°C
Alkalinity as $CaCO_3$	74	98	mg/L
Turbidity	0.5	0.3	NTU
Volume purged	6.1	3.9	well volumes
Sampling code			
Synchronous water level	173.1 (09/28/94)	173.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	63	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.7	1	J1		•	0	GE	7.7	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB139A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1	J1			0	TM	6.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.4E+00	1	J1			0	TM	7.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	0.0E+00	1	UI			0	TM	2.2E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB139C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71129.8 E57374.5	33.276704 °N 81.653890 °W	158.5-148.5 ft msl	233.8 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/19/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	213.4	214.5	ft msl
pH	5.2	5.3	pH
Sp. conductance	390	379	µS/cm
Water temperature	19.8	16.9	°C
Alkalinity as $CaCO_3$	2	3	mg/L
Turbidity	0.3	0.5	NTU
Volume purged	0.70	0.67	well volumes
Sampling code	X	X	
Synchronous water level	213.3 (09/28/94)	214.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.93	1	Y			0	WA	0.86	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene	1.4	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	150	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	37,000	50	Y	■		2	WA	39,000	40		■		2	GE	µg/L
pH	5.3	1	JY3	■	●	0	WA	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB139C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.1E+00	1	J3			0	GP	3.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.9E+01	1				0	GP	3.1E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.9E+03	1		■		2	GP	2.9E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB139D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71133.2 E57384.4	33.276728 °N 81.653871 °W	226.7-206.7 ft msl	233.8 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/18/94	10/17/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	220.6	223.7	ft msl
pH	4.8	5.5	pH
Sp. conductance	60	63	µS/cm
Water temperature	19	20.1	°C
Alkalinity as $CaCO_3$	0	4	mg/L
Turbidity	1.9	0.4	NTU
Volume purged	6.2	5.6	well volumes
Sampling code			
Synchronous water level	220.3 (09/28/94)	221.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.45	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	140	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,600	5	Y			0	WA	260	1				0	GE	µg/L
pH	4.9	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB139D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1	J3			0	GP	2.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.1E+01	1				0	GP	3.6E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.3E+03	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB140A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70050.3 E56535.4	33.272948 °N 81.654003 °W	91.0-81.0 ft msl	235.9 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	174.8	175.0	ft msl
pH	6.9	6.7	pH
Sp. conductance	162	167	µS/cm
Water temperature	19.7	19.1	°C
Alkalinity as $CaCO_3$	54	54	mg/L
Turbidity	0.6	0.2	NTU
Volume purged	3.4	4.2	well volumes
Sampling code			
Synchronous water level	174.5 (09/28/94)	175.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.7	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB140A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.3E-01	1	UI			0	GP	5.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	9.4E-01	1	UI			0	GP	8.5E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.9E-01	1	UI			0	GP	2.7E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB140C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70049.2 E56551.8	33.272972 °N 81.653958 °W	171.6-161.6 ft msl	235.6 ft msl	4" PVC	S	Barnwell (IIB_4)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	205.0	205.5	ft msl
pH	5.6	5.8	pH
Sp. conductance	28	30	µS/cm
Water temperature	19.9	19.5	°C
Alkalinity as $CaCO_3$	3	4	mg/L
Turbidity	0.2	0.2	NTU
Volume purged	3.3	2.8	well volumes
Sampling code			
Synchronous water level	204.7 (09/28/94)	205.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	34	1	Y			1	WA								µg/L
Nitrate as nitrogen	470	1	Y			0	WA	500	1				0	GE	µg/L
pH	6.0	1	JY3	■	●	0	WA	7.1	1	J1		●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB140C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.6E-01	1	UI			0	GP	1.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	9.1E-01	1	UI			0	GP	8.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	4.1E+00	1				0	GP	3.9E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB140D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70036.0 E56560.6	33.272957 °N 81.653909 °W	214.1-194.1 ft msl	236.2 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	211.7	211.6	ft msl
pH	5	4.9	pH
Sp. conductance	22	22	µS/cm
Water temperature	20.3	19.7	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.6	0.4	NTU
Volume purged	4.8	3.6	well volumes
Sampling code			
Synchronous water level	211.1 (09/28/94)	212.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	44	1	Y			1	WA								µg/L
Nitrate as nitrogen	510	1	Y			0	WA	510	1				0	GE	µg/L
pH	5.2	1	JY3	■	●	0	WA	5.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB140D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	4.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	5.7E-01	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB141A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71213.6 E59168.7	33.279817 °N 81.649329 °W	90.6-80.6 ft msl	254.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/18/94	10/18/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	173.9	174.2	ft msl
pH	11.8	11.5	pH
Sp. conductance	1,003	1,060	µS/cm
Water temperature	21	20	°C
Alkalinity as $CaCO_3$	77	259	mg/L
Turbidity	0.1	0.2	NTU
Volume purged	2.7	2.6	well volumes
Sampling code			
Synchronous water level	173.8 (09/28/94)	174.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	JY			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	2.3	1	JY3			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,200	1	JY3	■		2	WA								µg/L
Nitrate as nitrogen	37	1	Y			0	WA	<50	1				0	GE	µg/L
pH	11	1	JY3	■	●	2	WA	12	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB141A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	UI			0	GP	1.2E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	3.5E+00	1				0	GP	3.3E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	7.2E-01	1	J3			0	GP	1.4E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB141C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71196.7 E59170.2	33.279782 °N 81.649292 °W	164.7-154.7 ft msl	254.7 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/19/94	10/19/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	226.5	228.2	ft msl
pH	9.3	9.5	pH
Sp. conductance	104	104	µS/cm
Water temperature	20.1	17.7	°C
Alkalinity as $CaCO_3$	18	29	mg/L
Turbidity	3.9	4.7	NTU
Volume purged	1.0	1.0	well volumes
Sampling code	X	X	
Synchronous water level	226.7 (09/28/94)	228.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	250	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	86	1	Y			0	WA	140	1	Y			0	GE	µg/L
pH	6.5	1	JY3	■	●	0	WA	9.5	1	JY1	■	●	1	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB141C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	8.0E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.5E+00	1	J3			0	GP	2.6E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.9E-01	1	UI			0	GP	4.2E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB141D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71184.4 E59170.9	33.279756 °N 81.649266 °W	237.8-217.8 ft msl	254.8 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/19/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	233.9	245.1	ft msl
pH	5.7	5.8	pH
Sp. conductance	38	54	µS/cm
Water temperature	19.7	18	°C
Alkalinity as $CaCO_3$	0	9	mg/L
Turbidity	591	235	NTU
Volume purged	0.85	1.1	well volumes
Sampling code	X	X	
Synchronous water level	235.6 (09/28/94)	239.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	43	1	Y			1	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	2,900	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	150	1	Y			0	WA	250	1				0	GE	µg/L
pH	6.5	1	JY3	■	●	0	WA	5.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB141D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.9E+00	1				0	GP	6.1E+00	1				0	GP	pCi/L
Nonvolatile beta	2.1E+00	1	J3			0	GP	3.4E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.8E+01	1				1	GP	1.7E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB142C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73119.0 E53505.3	33.274791 °N 81.667942 °W	171.6-161.6 ft msl	204 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/19/94	10/20/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	197.6	198.9	ft msl
pH	5.4	5.6	pH
Sp. conductance	27	22	µS/cm
Water temperature	18.9	18.1	°C
Alkalinity as $CaCO_3$	1	2	mg/L
Turbidity	1.5	0.6	NTU
Volume purged	4.3	3.2	well volumes
Sampling code			
Synchronous water level	197.7 (09/28/94)	198.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	32	1	Y			1	WA								µg/L
Nitrate as nitrogen	290	1	Y			0	WA	250	1				0	GE	µg/L
pH	6.1	1	JY3	■	●	0	WA	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB142C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.8E-01	1	UI			0	GP	2.9E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	7.1E-01	1	UI			0	GP	6.2E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.5E+00	1				0	GP	2.2E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB142D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73113.0 E53493.1	33.274758 °N 81.667962 °W	199.7-189.7 ft msl	204.2 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/20/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	196.2	199.0	ft msl
pH	5.4	5.1	pH
Sp. conductance	49	46	µS/cm
Water temperature	21.7	18.9	°C
Alkalinity as $CaCO_3$	4	1	mg/L
Turbidity	21.7	35.4	NTU
Volume purged	0.24	0.49	well volumes
Sampling code	X	X	
Synchronous water level	196.6 (09/28/94)	198.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	9.4	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	690	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	1,500	5	Y			0	WA	120	1				0	GE	µg/L
pH	4.9	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB142D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.3E-01	1	UI			0	GP	1.9E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.0E+00	1	J3			0	GP	2.3E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	6.4E+02	1		■		2	GP	2.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB143C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73738.2 E52773.2	33.274966 °N 81.671072 °W	179.1-169.1 ft msl	222.2 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/18/94	10/14/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	208.0	209.1	ft msl
pH	5.2	5.1	pH
Sp. conductance	40	41	µS/cm
Water temperature	18.7	18.3	°C
Alkalinity as $CaCO_3$	1	1	mg/L
Turbidity	0.3	0.1	NTU
Volume purged	14	7.7	well volumes
Sampling code			
Synchronous water level	207.8 (09/28/94)	208.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1				0	GE								µg/L
Nitrate as nitrogen	580	1				0	GE	600	1				0	GE	µg/L
pH	6.5	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB143C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1	J1			0	TM	3.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	6.0E-01	1	UI			0	TM	3.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.1E+01	1				1	TM	1.0E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB143D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73754.0 E52774.5	33.275003 °N 81.671099 °W	216.9-196.9 ft msl	222.9 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/18/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	211.7	212.8	ft msl
pH	4.6	4.6	pH
Sp. conductance	20	23	µS/cm
Water temperature	18.9	19.4	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	0.3	0.8	NTU
Volume purged	6.4	5.5	well volumes
Sampling code			
Synchronous water level	211.5 (09/28/94)	212.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	58	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	340	1	Y			0	WA	350	1				0	GE	µg/L
pH	7.1	1	JY3		●	0	WA	4.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB143D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1	J3			0	GP	1.2E+00	1	J			0	GP	pCi/L
Nonvolatile beta	6.8E-01	1	UI			0	GP	6.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	9.9E+00	1				0	GP	1.1E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB144A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71892.1 E56200.5	33.276475 °N 81.658462 °W	88.6-78.6 ft msl	235.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	170.2	170.2	ft msl
pH	6.8	6.7	pH
Sp. conductance	165	168	µS/cm
Water temperature	20	19.6	°C
Alkalinity as $CaCO_3$	53	48	mg/L
Turbidity	0.2	0.6	NTU
Volume purged	3.4	3.1	well volumes
Sampling code			
Synchronous water level	169.8 (09/28/94)	170.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	410	1	Y			0	WA	370	1				0	GE	µg/L
pH	6.7	1	JY3	■	•	0	WA	7.0	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB144A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.8E-01	1	UI			0	GP	1.1E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	4.9E+00	1				0	GP	4.2E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E+02	1		■		2	GP	2.3E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB145C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71098.9 E57769.0	33.277280 °N 81.652792·°W	174.7-164.7 ft msl	235.7 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/14/94	10/17/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	212.5	213.6	ft msl
pH	6.2	6.5	pH
Sp. conductance	357	370	µS/cm
Water temperature	20.7	19.9	°C
Alkalinity as $CaCO_3$	14	12	mg/L
Turbidity	0.5	0.8	NTU
Volume purged	4.0	2.7	well volumes
Sampling code			
Synchronous water level	212.3 (09/28/94)	213.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.38	1	Y			0	WA	0.35	1				0	WA	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene															
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable															
Tin, total recoverable															
Trichloroethylene	1.7	1	Y			0	WA								µg/L
Trichlorofluoromethane															
Vanadium, total recoverable															
Zinc, total recoverable															

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	240	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	34,000	100	Y	■		2	WA	36,000	100		■		2	WA	µg/L
pH	6.2	1	JY3	■	●	0	WA	6.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB145C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.0E+00	1	J3			0	GP	1.4E+01	1				1	GP	pCi/L
Nonvolatile beta	3.3E+01	1				1	GP	6.0E+01	1		■		2	TM	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.8E+03	1		■		2	GP	2.2E+03	1		■		2	TM	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB145D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71088.0 E57753.9	33.277231 °N 81.652810 °W	194.2-184.2 ft msl	236.2 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/14/94	10/17/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	219.1	222.0	ft msl
pH	5.5	5.5	pH
Sp. conductance	338	330	µS/cm
Water temperature	20.4	19.3	°C
Alkalinity as $CaCO_3$	7	6	mg/L
Turbidity	2.1	0.3	NTU
Volume purged	2.8	2.7	well volumes
Sampling code			
Synchronous water level	218.3 (09/28/94)	220.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	170	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA								µg/L
Lead, total recoverable	6.5	1	Y			0	WA								µg/L
Lindane	<0.052	1.03	RY1			0	WA								µg/L
Mercury, total recoverable	2.7	1	Y	■		2	WA	2.1	1		■		2	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	13	1	Y			0	WA								µg/L
Copper, total recoverable	<4.0	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	7.3	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA								µg/L
Zinc, total recoverable	34	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,000	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	32,000	50	Y	■		2	WA	34,000	20		■		2	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	5.7	1	JY1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB145D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.7E+01	1		■		2	GP	3.7E+01	1		■		2	GP	pCi/L
Nonvolatile beta	4.2E+02	1		■		2	GP	4.4E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-7.3E-03	1	UI			0	GP								pCi/L
Cobalt-60	8.3E+00	1	UI3			0	GP								pCi/L
Curium-242	-9.1E-03	1	UI			0	GP								pCi/L
Curium-243/244	-1.6E-02	1	UI			0	GP								pCi/L
Curium-245/246	3.6E-02	1	UI			0	GP								pCi/L
Iodine-129	1.7E+01	1		■		2	GP								pCi/L
Plutonium-238	-4.4E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	-2.2E-02	1	UI			0	GP								pCi/L
Radium-226	1.5E+01	1				1	GP								pCi/L
Radium-228	4.2E+00	1				0	GP								pCi/L
Strontium-89	-1.8E+01	1	UI			0	GP								pCi/L
Strontium-90	1.9E+02	1		■		2	GP								pCi/L
Technetium-99	6.3E+01	1	J3			0	GP								pCi/L
Thorium-228	3.7E-02	1	UI			0	GP								pCi/L
Thorium-230	6.0E-01	1	UI			0	GP								pCi/L
Thorium-232	-1.1E-01	1	UI			0	GP								pCi/L
Thorium-234	1.2E+02	1	UI			0	GP								pCi/L
Tritium	6.3E+03	1		■		2	GP	5.7E+03	1		■		2	GP	pCi/mL
Uranium-233/234	7.9E-01	1	UI			0	GP								pCi/L
Uranium-235	1.1E-01	1	UI			0	GP								pCi/L
Uranium-238	1.9E+00	1				0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-4.8E-05					0									pCi/L
Nickel-63	8.3E+00					0									pCi/L
Plutonium-241	-8.8E-02					0									pCi/L
Plutonium-242	-4.4E-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 HSB146A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70478.9 E58454.0	33.277026 °N 81.649784 °W	95.5-85.5 ft msl	251.6 ft msl	4" PVC	S	U. Congaree (IIA)

SAMPLE DATE	07/18/94	10/18/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	175.0	175.3	ft msl
pH	7.2	7.2	pH
Sp. conductance	202	207	µS/cm
Water temperature	19.9	19.3	°C
Alkalinity as $CaCO_3$	51	71	mg/L
Turbidity	0.5	0.4	NTU
Volume purged	4.4	3.7	well volumes
Sampling code			
Synchronous water level	174.9 (09/28/94)	175.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.9	1	JY3		•	0	WA	7.2	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB146A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.8E-01	1	UI			0	GP	3.7E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	5.4E-01	1	UI			0	GP	1.6E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	-2.1E-01	1	UI			0	GP	1.4E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB146C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70471.6 E58473.1	33.277041 °N 81.649719 °W	162.3-152.3 ft msl	252.3 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/18/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	208.9	209.8	ft msl
pH	7.3	7.8	pH
Sp. conductance	108	95	µS/cm
Water temperature	20.3	19.5	°C
Alkalinity as $CaCO_3$	24	28	mg/L
Turbidity	0.2	0.5	NTU
Volume purged	2.8	4.1	well volumes
Sampling code			
Synchronous water level	208.8 (09/28/94)	209.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	33	1	Y			1	WA								µg/L
Nitrate as nitrogen	560	1	Y			0	WA	720	1				0	GE	µg/L
pH	7.3	1	JY3		•	0	WA	7.4	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB146C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1	UI			0	GP	8.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	2.4E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.2E+01	1				1	GP	1.3E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB146D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70469.7 E58493.0	33.277069 °N 81.649663 °W	224.1-204.0 ft msl	253.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/19/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	220.0	220.2	ft msl
pH	5.1	5.1	pH
Sp. conductance	20	23	µS/cm
Water temperature	19.8	17.1	°C
Alkalinity as $CaCO_3$	1	1	mg/L
Turbidity	27.7	4.1	NTU
Volume purged	1.1	1.3	well volumes
Sampling code	X	X	
Synchronous water level	219.7 (09/28/94)	221.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	9.6	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	150	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	500	1	Y			0	WA	1,100	1				0	GE	µg/L
pH	5.9	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB146D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.9E-01	1	J3			0	GP	6.1E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	9.9E-01	1	UI			0	GP	1.8E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.2E+01	1		■		2	GP	2.2E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB147D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N73827.9 E55804.4	33.280110 °N 81.663265 °W	235.2-215.2 ft msl	267.3 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	229.5	229.8	ft msl
pH	5.3	5.3	pH
Sp. conductance	36	40	µS/cm
Water temperature	18.9	17.4	°C
Alkalinity as $CaCO_3$	1	2	mg/L
Turbidity	21.7	23.7	NTU
Volume purged	0.85	1.0	well volumes
Sampling code	X	X	
Synchronous water level	229.2 (09/28/94)	230.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	13	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,400	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	390	1	Y			0	WA	530	1				0	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	5.5	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB147D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.9E-01	1	UI			0	GP	5.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	9.0E-01	1	UI			0	GP	6.4E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.9E+01	1				1	GP	1.8E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB148C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70151.5 E55344.2	33.271228 °N 81.657336 °W	168.9-158.9 ft msl	250.9 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/19/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	201.1	201.6	ft msl
pH	10.9	11.4	pH
Sp. conductance	294	302	µS/cm
Water temperature	18.6	17.4	°C
Alkalinity as $CaCO_3$	48	57	mg/L
Turbidity	0.6	0.9	NTU
Volume purged	0.90	0.86	well volumes
Sampling code	X	X	
Synchronous water level	201.0 (09/28/94)	201.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	430	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	420	1	Y			0	WA	590	1				0	GE	µg/L
pH	11	1	JY3	■	●	2	WA	11	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB148C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1	J3			0	GP	2.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	4.3E+00	1				0	GP	6.7E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.2E+00	1				0	GP	2.3E+00	1				0	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB148D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70160.9 E55355.7	33.271268 °N 81.657324 °W	218.1-198.1 ft msl	251.1 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	212.0	211.9	ft msl
pH	8	7.5	pH
Sp. conductance	121	166	µS/cm
Water temperature	18.4	16.9	°C
Alkalinity as $CaCO_3$	26	61	mg/L
Turbidity	32.6	10.9	NTU
Volume purged	0.55	0.55	well volumes
Sampling code	X	X	
Synchronous water level	211.6 (09/28/94)	212.7 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	5.3	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	380	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	65	1	Y			0	WA	310	1				0	GE	µg/L
pH	8.8	1	JY3	■	●	1	WA	8.0	1	J1		●	1	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB148D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.0E+00	1	J3			0	GP	2.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	8.8E-01	1	UI			0	GP	3.1E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	1.6E+01	1				1	GP	1.5E+01	1				1	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB149D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71338.8 E57286.3	33.277023 °N 81.654529 °W	227.0-207.0 ft msl	240 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/14/94	10/14/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	221.5	223.6	ft msl
pH	4.8	4.6	pH
Sp. conductance	24	22	µS/cm
Water temperature	20.2	21.6	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	2.5	0.9	NTU
Volume purged	3.5	3.3	well volumes
Sampling code			
Synchronous water level	221.2 (09/28/94)	221.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

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

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	260	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	600	1	Y			0	WA	180	1				0	GE	µg/L
pH	5.0	1	JY3	■	●	0	WA	4.9	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB149D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.6E+00	1	J3			0	GP	-2.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.2E+00	1	UI			0	GP	2.8E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.5E+01	1		■		2	GP	2.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB150D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71692.6 E58692.8	33.280100 °N 81.651512 °W	226.9-206.9 ft msl	239 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/18/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	224.1	230.3	ft msl
pH	5.2	5.1	pH
Sp. conductance	60	44	µS/cm
Water temperature	19.9	19	°C
Alkalinity as $CaCO_3$	4	5	mg/L
Turbidity	15.5	8.7	NTU
Volume purged	0.80	1.1	well volumes
Sampling code	X	X	
Synchronous water level	223.9 (09/28/94)	226.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable	9.2	1	Y			0	WA								µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable	12	1	Y			0	WA								µg/L
Lead, total recoverable	15	1	Y			0	WA								µg/L
Lindane	<0.053	1.06	Y			0	WA								µg/L
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA								µg/L
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<3.0	1	Y			0	WA								µg/L
Benzene	<5.0	1	Y			0	WA								µg/L
Cobalt, total recoverable	<4.0	1	Y			0	WA								µg/L
Copper, total recoverable	46	1	Y			0	WA								µg/L
Cyanide	<5.0	1	Y			0	WA								µg/L
Nickel, total recoverable	7.5	1	Y			0	WA								µg/L
Tin, total recoverable	<17	1	Y			0	WA								µg/L
Trichloroethylene	<5.0	1	Y			0	WA								µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA								µg/L
Vanadium, total recoverable	6.2	1	Y			0	WA								µg/L
Zinc, total recoverable	65	1	VY	■		0	WA								µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,200	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	1,700	5	Y			0	WA	<50	1				0	GE	µg/L
pH	5.3	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<9.5	1	JY1		●	0	GE								µg/L
Dichloromethane	2.5	1	JY3			0	WA								µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB150D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.1E-01	1	UI			0	GP	1.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.4E+00	1	UI			0	GP	7.2E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	2.9E-02	1	UI			0	GP								pCi/L
Cobalt-60	7.6E-01	1	UI			0	GP								pCi/L
Curium-242	-6.7E-03	1	UI			0	GP								pCi/L
Curium-243/244	9.2E-02	1	UI			0	GP								pCi/L
Curium-245/246	0.0E+00	1	UI			0	GP								pCi/L
Iodine-129	6.5E-01	1	UI			0	GP								pCi/L
Plutonium-238	-2.1E-02	1	UI			0	GP								pCi/L
Plutonium-239/240	0.0E+00	1	UI			0	GP								pCi/L
Radium-226	1.1E-01	1	UI			0	GP								pCi/L
Radium-228	-1.0E+00	1	UI			0	GP								pCi/L
Strontium-89	-1.1E+00	1	UI			0	GP								pCi/L
Strontium-90	7.9E-01	1	UI			0	GP								pCi/L
Technetium-99	6.8E+00	1	UI			0	GP								pCi/L
Thorium-228	0.0E+00	1	UI			0	GP								pCi/L
Thorium-230	1.1E+00	1	J3			0	GP								pCi/L
Thorium-232	-1.1E-02	1	UI			0	GP								pCi/L
Thorium-234	2.4E+02	1	UI			0	GP								pCi/L
Tritium	1.7E+02	1		■		2	GP	2.4E+01	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	-9.5E-03	1	UI			0	GP								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.8E-04					0									pCi/L
Nickel-63	7.6E-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 HSB151C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72997.9 E54014.9	33.275355 °N 81.666365 °W	180.6-170.6 ft msl	213.6 ft msl	4" PVC	S	Barnwell (IIB$_1$)

SAMPLE DATE	07/19/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	206.1	208.4	ft msl
pH	4.7	5	pH
Sp. conductance	110	115	µS/cm
Water temperature	19	18.9	°C
Alkalinity as $CaCO_3$	0	1	mg/L
Turbidity	0.4	1	NTU
Volume purged	3.4	4.0	well volumes
Sampling code			
Synchronous water level	206.2 (09/28/94)	207.5 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	3.6	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	130	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	8,000	25	Y			1	WA	13,000	10		■		2	GE	µg/L
pH	4.7	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB151C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.2E+00	1	J3			0	GP	1.8E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.1E+01	1				0	GP	1.5E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	2.1E+03	1		■		2	GP	2.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB151D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72997.8 E54026.4	33.275373 °N 81.666334 °W	207.6-197.6 ft msl	213.6 ft msl	4" PVC	S	Water Table (IIB_2)

SAMPLE DATE	07/19/94	10/19/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	205.0	208.3	ft msl
pH	4.9	5.1	pH
Sp. conductance	56	29	µS/cm
Water temperature	21	20.4	°C
Alkalinity as $CaCO_3$	0	1	mg/L
Turbidity	231	1.3	NTU
Volume purged	0.82	9.4	well volumes
Sampling code	X		
Synchronous water level	205.2 (09/28/94)	206.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	18	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,100	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	3,300	5	Y			0	WA	1,400	1				0	GE	µg/L
pH	4.8	1	JY3	■	●	0	WA	5.2	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB151D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1	J3			0	GP	5.2E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.8E+00	1	J3			0	GP	1.3E+00	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	3.7E+02	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSB152C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72012.0 E54346.7	33.273716 °N 81.663576·°W	183.1-173.1 ft msl	214.1 ft msl	4" PVC	S	Barnwell (IIB_1)

SAMPLE DATE	07/19/94	10/20/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	198.3	199.0	ft msl
pH	4.6	5.1	pH
Sp. conductance	124	110	µS/cm
Water temperature	17.7	17.7	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	1.5	0.6	NTU
Volume purged	5.8	4.0	well volumes
Sampling code			
Synchronous water level	198.4 (09/28/94)	198.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	<3.0	1	Y			0	WA								µg/L
Lindane															
Mercury, total recoverable	0.25	1	Y			0	WA	0.22	1	J			0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	200	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	8,800	25	Y			1	WA	12,000	20		■		2	GE	µg/L
pH	4.8	1	JY3	■	●	0	WA	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB152C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1	J3			0	GP	7.3E+00	1	J1			0	TM	pCi/L
Nonvolatile beta	3.0E+01	1				1	GP	1.9E+02	1		■		2	TM	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60															
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234															
Tritium	1.3E+03	1		■		2	GP	1.7E+03	1		■		2	TM	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

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

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSB152D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72011.7 E54362.1	33.273740 °N 81.663535 °W	207.0-197.0 ft msl	214.1 ft msl	4" PVC	S	Water Table (llB_2)

SAMPLE DATE	07/19/94	10/20/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation		204.5	ft msl
pH	5.3	5	pH
Sp. conductance	56	35	µS/cm
Water temperature	23.9	18.4	°C
Alkalinity as $CaCO_3$	1	0	mg/L
Turbidity	131	1000	NTU
Volume purged		0.61	well volumes
Sampling code	X	X	
Synchronous water level	(09/28/94)	(12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA								µg/L
Barium, total recoverable															
Cadmium, total recoverable	<2.0	1	Y			0	WA								µg/L
Chromium, total recoverable															
Lead, total recoverable	51	1	Y	■		2	WA								µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable															
Silver, total recoverable	<2.0	1	Y			0	WA								µg/L

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

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

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	6,600	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,700	10	Y			0	WA	630	1				0	GE	µg/L
pH	5.2	1	JY3	■	●	0	WA	5.6	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
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 HSB152D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.3E+00	1	J3			0	GP	1.7E+00	1	J			0	GP	pCi/L
Nonvolatile beta	6.4E+00	1				0	GP	4.3E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
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	3.9E+02	1		■		2	GP	1.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63															
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 HSL 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72179.6 E58925.0	33.281556 °N 81.651846 °W	239.8-219.8 ft msl	264 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/19/94	11/03/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	233.1	234.3	ft msl
pH	4.4	4.4	pH
Sp. conductance	81	69	µS/cm
Water temperature	22.5	20.9	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	1.4	1.4	NTU
Volume purged	9.6	6.3	well volumes
Sampling code			
Synchronous water level	233.1 (09/29/94)	234.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	38	1	Y			0	WA	41	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane															
Mercury, total recoverable	0.33	1	Y			0	WA	0.22	1	J			0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	7.6	1	Y			0	WA	<2.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	380	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	4,600	10	Y			0	WA	4,500	4				0	GE	µg/L
pH	4.5	1	JY3	■	●	0	WA	4.7	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 1D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	7.4E+00	1				0	GP	5.7E+00	1				0	GP	pCi/L
Nonvolatile beta	2.0E+01	1				0	GP	1.7E+01	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60	0.0E+00	1	UI			0	CN	1.9E+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	9.2E+01	1				0	CN	1.4E+01	1	UI			0	GP	pCi/L
Tritium	3.1E+02	1		■		2	GP	2.1E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		1.9E+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 HSL 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72190.8 E59423.5	33.282394 °N 81.650556 °W	245.3-225.2 ft msl	265.5 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/15/94	11/03/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	239.8	240.9	ft msl
pH	4.8	4.8	pH
Sp. conductance	48	44	µS/cm
Water temperature	20	19.7	°C
Alkalinity as $CaCO_3$	1	2	mg/L
Turbidity	1.8	1.2	NTU
Volume purged	6.7	6.2	well volumes
Sampling code			
Synchronous water level	239.5 (09/29/94)	240.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	4.8	1	Y			0	WA	4.1	1	J			0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	<160	1	JVY2			0	WA	<2.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	91	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	740	5	Y			0	WA	860	1				0	GE	µg/L
pH	5.3	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	3.4	1	JY3			1	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 2D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.1E+00	1	J3			0	GP	8.3E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.2E+00	1	J3			0	GP	9.4E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60	0.0E+00	1	UI			0	CN	-1.2E+00	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	7.5E+00	1	UI			0	GP	pCi/L
Tritium	2.2E+02	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		-1.2E+00					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 3D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72251.5 E59770.6	33.283094 °N 81.649759 °W	253.8-233.7 ft msl	267.6 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/20/94	11/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	247.8	249.8	ft msl
pH	4.3	5.2	pH
Sp. conductance	28	33	µS/cm
Water temperature	20.6	15.6	°C
Alkalinity as $CaCO_3$	0	2	mg/L
Turbidity	189	18.1	NTU
Volume purged	0.43	1.1	well volumes
Sampling code	X	X	
Synchronous water level	247.8 (09/29/94)	249.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	15	1	Y			0	WA	5.8	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	12	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	4.9	1	Y			0	WA	5.6	1	J			0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	10	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	8.4	1	Y			0	WA	9.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,100	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	260	1	Y			0	WA	310	1				0	GE	µg/L
pH	4.5	1	JY3	■	●	0	WA	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	1.5	1	JY3			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 3D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.8E+00	1	J3			0	GP	1.1E+00	1	J			0	GP	pCi/L
Nonvolatile beta	2.0E+00	1	J3			0	GP	1.6E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60	0.0E+00	1	UI			0	CN	2.9E-01	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	7.9E+00	1	UI			0	GP	pCi/L
Tritium	4.4E+01	1		■		2	GP	3.8E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		2.9E-01					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72453.7 E60171.9	33.284196 °N 81.649095 °W	265.1-245.0 ft msl	273.2 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/15/94	11/03/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	260.4	262.7	ft msl
pH	5.4	5.3	pH
Sp. conductance	93	90	µS/cm
Water temperature	20.9	20.4	°C
Alkalinity as $CaCO_3$	17	13	mg/L
Turbidity	0.9	3.2	NTU
Volume purged	3.6	40	well volumes
Sampling code			
Synchronous water level	260.0 (09/29/94)	261.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	27	1	Y			0	WA	40	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	<160	1	JVY2			0	WA	2.7	1	J			0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA								µg/L
Nitrate as nitrogen	850	1	Y			0	WA	1,000	1				0	GE	µg/L
pH	5.7	1	JY3	■	●	0	WA	5.8	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	2.2	1	JY3			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 4D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.0E-01	1	UI			0	GP	1.3E+00	1	J			0	GP	pCi/L
Nonvolatile beta	5.2E+01	1		■		2	GP	7.2E+01	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60	0.0E+00	1	UI			0	CN	-1.3E+00	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	3.4E+01	1	UI			0	GP	pCi/L
Tritium	2.4E+01	1		■		2	GP	2.6E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		-1.3E+00					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 5D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72562.2 E60339.4	33.284709 °N 81.648865·°W	267.7-247.8 ft msl	276.6 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/15/94	11/04/94	
FIELD DATA			
Parameter	**3Q94**	**4Q94**	**Unit**
Water elevation	266.8	267.2	ft msl
pH	4.9	5.4	pH
Sp. conductance	45	66	µS/cm
Water temperature	31	26.5	°C
Alkalinity as $CaCO_3$	0	3	mg/L
Turbidity	0.5	2	NTU
Volume purged	4.5	7.5	well volumes
Sampling code			
Synchronous water level	265.1 (09/29/94)	266.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	24	1	Y			0	WA	44	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	15	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	<160	1	JVY2			0	WA	<2.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	21	1	Y			0	WA								µg/L
Nitrate as nitrogen	2,100	10	Y			0	WA	3,500	4				0	GE	µg/L
pH	5.1	1	JY3	■	●	0	WA	5.3	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	3.2	1	JY3			1	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 5D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.4E+00	1	J3			0	GP	7.8E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.1E+01	1				0	GP	2.7E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60	0.0E+00	1	UI			0	CN	7.7E-01	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	1.6E+01	1	UI			0	GP	pCi/L
Tritium	1.0E+01	1				1	GP	3.1E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		7.7E-01					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 6A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72684.5 E60549.5	33.285323 °N 81.648549 °W	114.7-104.7 ft msl	276.8 ft msl	2" PVC	V	U. Congaree (IIA)

SAMPLE DATE	07/12/94	11/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	86.2	167.6	ft msl
pH	6.2	6	pH
Sp. conductance	103	64	µS/cm
Water temperature	21.5	21.8	°C
Alkalinity as $CaCO_3$	45	15	mg/L
Turbidity	0.9	1.5	NTU
Volume purged	-12	7.8	well volumes
Sampling code			
Synchronous water level	167.2 (09/29/94)	167.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.2	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	13	1	JV			0	CN	10	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	JY3			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	JY3			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	JY3			0	WA	<3.0	1				0	GE	µg/L
Lindane	<0.020	1				0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	JY3			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	JY3			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	JY3			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	JY3			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	15	1	J			0	CN	2.4	1	J			0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	120	1	JY3	■		2	WA	30	1	J			1	GE	µg/L
Nitrate as nitrogen	92	1	Y			0	WA	90	1				0	GE	µg/L
pH	6.5	1	JY3	■	•	0	WA	6.4	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 6A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.7E+00	1				0	CN	-2.6E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	1.8E+00	1				0	CN	6.8E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	3.3E-02	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.3E+00	1	UI			0	GP	pCi/L
Curium-242	-1.1E-01	1	UI			0	CN								pCi/L
Curium-243/244	2.0E-01	1	UI			0	CN								pCi/L
Curium-245/246	3.0E-01	1				0	CN								pCi/L
Iodine-129	2.1E-01	1	UI			0	CN								pCi/L
Plutonium-238	5.9E-02	1	UI			0	CN								pCi/L
Plutonium-239/240	-2.6E-02	1	UIV			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	-3.0E-01	1	UIV			0	CN								pCi/L
Technetium-99	4.3E+00	1	UI			0	CN								pCi/L
Thorium-228	6.4E-02	1	UIV			0	CN								pCi/L
Thorium-230	5.8E-01	1	V			0	CN								pCi/L
Thorium-232	7.7E-02	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	4.6E+00	1	UI			0	GP	pCi/L
Tritium	2.1E-01	1	UI			0	GP	-3.7E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	1.8E-02	1	UI			0	CN								pCi/L
Uranium-235	3.0E-03	1	UI			0	CN								pCi/L
Uranium-238	-3.8E-03	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	6.0E-04					0									pCi/L
Nickel-63	0.0E+00					0		1.3E+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.

WELL HSL 6AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72692.6 E60555.7	33.285351 °N 81.648549 °W	28.6-18.6 ft msl	276.7 ft msl	2" PVC	V	L. Congaree (IIA)

SAMPLE DATE	07/12/94	11/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	168.1	168.3	ft msl
pH	6.1	6.5	pH
Sp. conductance	101	83	µS/cm
Water temperature	21.5	20.2	°C
Alkalinity as $CaCO_3$	30	23	mg/L
Turbidity	13.9	3.3	NTU
Volume purged	2.3	7.7	well volumes
Sampling code			
Synchronous water level	167.8 (09/29/94)	168.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	13	1	Y			0	WA	4.9	1				0	GE	µg/L
Barium, total recoverable	24	1	V			0	CN	25	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	<0.020	1	JV			0	CN								µg/L
Mercury, total recoverable	0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<500	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	8.2	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	12	1	J			0	CN	<2.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum; total recoverable	38	1	Y			1	WA	<20	1				0	GE	µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	6.7	1	J1	■	•	0	CN	6.5	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 6AA (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	3.3E+00	1				0	CN	1.7E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.3E+01	1				0	GP	1.6E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	9.6E-02	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	9.1E-01	1	UI			0	GP	pCi/L
Curium-242	-2.2E-01	1	UI			0	CN								pCi/L
Curium-243/244	-1.5E-02	1	UI			0	CN								pCi/L
Curium-245/246	2.2E-01	1	UI			0	CN								pCi/L
Iodine-129	-2.6E-02	1	UIV			0	CN								pCi/L
Plutonium-238	1.2E-02	1	UI			0	CN								pCi/L
Plutonium-239/240	5.0E-02	1	UI			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	-1.0E-01	1	UIV			0	CN								pCi/L
Technetium-99	7.3E+00	1	UI			0	CN								pCi/L
Thorium-228	2.8E-01	1	V			0	CN								pCi/L
Thorium-230	3.7E-01	1	V			0	CN								pCi/L
Thorium-232	5.5E-02	1				0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	1.1E+02	1	UI			0	GP	pCi/L
Tritium	5.0E-01	1	UI			0	GP	-3.7E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	1.6E-01	1	J			0	CN								pCi/L
Uranium-235	2.8E-02	1	UI			0	CN								pCi/L
Uranium-238	0.0E+00	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-4.5E-05					0									pCi/L
Nickel-63	0.0E+00					0		9.1E-01					0		pCi/L
Plutonium-241	2.0E-01					0									pCi/L
Plutonium-242	9.9E-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 HSL 6B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72676.3 E60543.6	33.285295 °N 81.648549 °W	137.9-127.9 ft msl	277.1 ft msl	2" PVC	V	McBean (IIB_1)

SAMPLE DATE	07/12/94	11/04/94
FIELD DATA		

Parameter	3Q94	4Q94	Unit
Water elevation	242.5	244.2	ft msl
pH	5.8	6.1	pH
Sp. conductance	69	54	µS/cm
Water temperature	21.8	21	°C
Alkalinity as $CaCO_3$	9	11	mg/L
Turbidity	4.7	14.2	NTU
Volume purged	4.4	7.9	well volumes
Sampling code			
Synchronous water level	243.1 (09/29/94)	244.1 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	2.6	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	8.1	1	JV			0	CN	8.2	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	<0.020	1				0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	5.8	1	J			0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	15	1	J			0	CN	2.5	1	J			0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	95	1	Y	■		2	WA	430	1		■		2	GE	µg/L
Nitrate as nitrogen	86	1	Y			0	WA	56	1	J			0	GE	µg/L
pH	6.1	1	JY3	■	•	0	WA	6.0	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 6B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.2E+00	1				0	CN	2.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	4.7E+01	1				1	CN	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	2.1E-01	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	2.8E+00	1	UI			0	GP	pCi/L
Curium-242	-8.3E-02	1	UI			0	CN								pCi/L
Curium-243/244	2.9E-01	1	UI			0	CN								pCi/L
Curium-245/246	7.1E-02	1	UI			0	CN								pCi/L
Iodine-129	1.0E+00	1	UI			0	CN								pCi/L
Plutonium-238	1.8E-01	1				0	CN								pCi/L
Plutonium-239/240	1.2E-01	1	V			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	-2.2E-01	1	UIV			0	CN								pCi/L
Technetium-99	1.0E+00	1	UI			0	CN								pCi/L
Thorium-228	4.1E-01	1	V			0	CN								pCi/L
Thorium-230	5.1E-01	1	V			0	CN								pCi/L
Thorium-232	1.2E-01	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	4.1E+01	1	UI			0	GP	pCi/L
Tritium	3.0E-01	1	UI			0	GP	-1.1E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	4.3E-02	1	UI			0	CN								pCi/L
Uranium-235	3.2E-02	1	UI			0	CN								pCi/L
Uranium-238	3.6E-02	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	8.6E-04					0									pCi/L
Nickel-63	0.0E+00					0		2.8E+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 HSL 6C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72667.5 E60537.6	33.285266 °N 81.648547 °W	167.6-157.6 ft msl	276.7 ft msl	2" PVC	V	Barnwell (IIB_1)

SAMPLE DATE	07/12/94	11/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	243.5	245.0	ft msl
pH	5.2	5.4	pH
Sp. conductance	25	23	µS/cm
Water temperature	21.7	20.2	°C
Alkalinity as $CaCO_3$	1	3	mg/L
Turbidity	0.2	1.4	NTU
Volume purged	5.0	7.8	well volumes
Sampling code			
Synchronous water level	243.8 (09/29/94)	244.8 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	1.7	1	JV3			0	CN	<3.0	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	0.020	1	J1			0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	14	1	J3			0	CN	4.3	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	20	1	Y			0	WA	21	1	J			0	GE	µg/L
Nitrate as nitrogen	230	1	Y			0	WA	300	1				0	GE	µg/L
pH	5.7	1	JY3	■	•	0	WA	5.5	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 6C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	8.5E-01	1				0	CN	3.5E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.0E+00	1				0	CN	9.9E-01	1	UI			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-3.6E-02	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.2E+00	1	UI			0	GP	pCi/L
Curium-242	6.8E-02	1	UI			0	CN								pCi/L
Curium-243/244	3.7E-01	1	UI			0	CN								pCi/L
Curium-245/246	3.6E-01	1	UI			0	CN								pCi/L
Iodine-129	-7.1E-01	1	UI			0	CN								pCi/L
Plutonium-238	-1.6E-02	1	UI			0	CN								pCi/L
Plutonium-239/240	4.1E-03	1	UI			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	6.5E-02	1	UIV			0	CN								pCi/L
Technetium-99	2.7E+00	1	UJI			0	CN								pCi/L
Thorium-228	3.6E-01	1	V			0	CN								pCi/L
Thorium-230	6.3E-01	1	V			0	CN								pCi/L
Thorium-232	-4.1E-02	1	UI			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	7.6E+01	1	UI			0	GP	pCi/L
Tritium	2.1E-01	1	UI			0	GP	2.5E-01	1	UI			0	GP	pCi/mL
Uranium-233/234															
Uranium-235	-4.8E-02	1	UI			0	CN								pCi/L
Uranium-238	-3.9E-02	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.1E-03					0									pCi/L
Nickel-63	0.0E+00					0		1.2E+00					0		pCi/L
Plutonium-241	1.6E-02					0									pCi/L
Plutonium-242	8.2E-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 HSL 6D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72659.7 E60531.1	33.285238 °N 81.648549 °W	264.0-243.9 ft msl	280 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/13/94	11/04/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	256.5	260.5	ft msl
pH	3.9	4.3	pH
Sp. conductance	125	94	µS/cm
Water temperature	20.7	24.5	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	290	8.7	NTU
Volume purged	0.48	0.37	well volumes
Sampling code	X	X	
Synchronous water level	257.3 (09/29/94)	259.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	31	1	V			0	CN	37	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	26	1	Y			0	WA	12	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	22	1				0	GE	µg/L
Lindane	<0.020	1	V			0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	0.83	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1				0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	8.0	1	JV			0	CN								µg/L
Cyanide	<310	1				0	CN								µg/L
Nickel, total recoverable	18	1	Y			0	WA	7.8	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	5.6	1	Y			0	WA	11	1	J			0	GE	µg/L
Zinc, total recoverable	24	1		■		0	CN	19	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	3,700	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	6,800	10	Y			1	WA	910	1				0	GE	µg/L
pH	4.7	1	J1	■	●	0	CN	5.4	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	1.6	1	JY3			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 6D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	6.8E+00	1				0	CN	1.1E+01	1				1	GP	pCi/L
Nonvolatile beta	9.5E+01	1		■		2	GP	1.2E+02	1		■		2	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.5E+00	1				0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	5.7E-01	1	UI			0	GP	pCi/L
Curium-242	7.3E-02	1	UI			0	CN								pCi/L
Curium-243/244	4.9E-02	1	UI			0	CN								pCi/L
Curium-245/246	2.9E-01	1	J			0	CN								pCi/L
Iodine-129	-4.1E-01	1	UI			0	CN								pCi/L
Plutonium-238	-1.6E-01	1	UI			0	CN								pCi/L
Plutonium-239/240	1.6E-01	1	UI			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	3.1E+01	1	V	■		2	CN								pCi/L
Technetium-99	8.2E+01	1	J			0	CN								pCi/L
Thorium-228	6.8E-01	1	V			0	CN								pCi/L
Thorium-230	7.1E-01	1	V			0	CN								pCi/L
Thorium-232	1.1E-01	1				0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	7.9E+01	1	UI			0	GP	pCi/L
Tritium	1.1E+02	1		■		2	CN	3.3E+01	1		■		2	GP	pCi/mL
Uranium-233/234	5.8E-01	1				0	CN								pCi/L
Uranium-235	8.1E-02	1	UI			0	CN								pCi/L
Uranium-238	6.3E-01	1				0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	1.5E-04					0									pCi/L
Nickel-63	0.0E+00					0		5.7E-01					0		pCi/L
Plutonium-241	6.2E-01					0									pCi/L
Plutonium-242	3.1E-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 HSL 7D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72674.4 E60723.0	33.285583 °N 81.648073 °W	262.4-242.3 ft msl	283.8 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/20/94	11/04/94

FIELD DATA

Parameter	3Q94	4Q94	Unit
Water elevation	257.1	259.7	ft msl
pH	4.6	4.7	pH
Sp. conductance	63	65	µS/cm
Water temperature	20.8	21.1	°C
Alkalinity as $CaCO_3$	0	0	mg/L
Turbidity	19	11.6	NTU
Volume purged	0.83	1.1	well volumes
Sampling code	X	X	
Synchronous water level	257.6 (09/29/94)	258.9 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	21	1	Y			0	WA	32	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	9.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	3.6	1	Y			0	WA	5.3	1				0	GE	µg/L
Lindane															
Mercury, total recoverable	<0.20	1	Y			0	WA	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable															
Benzene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Cobalt, total recoverable															
Copper, total recoverable															
Cyanide															
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	6.7	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	13	1	Y			0	WA	22	1		■		0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	1,900	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	2,400	5	Y			0	WA	3,200	4				0	GE	µg/L
pH	4.8	1	JY3	■	●	0	WA	4.1	1	J1	■	●	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate															
Dichloromethane	1.4	1	JY3			0	WA	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 7D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.5E+00	1	J3			0	GP	2.5E+00	1	J			0	GP	pCi/L
Nonvolatile beta	3.6E+00	1				0	GP	4.0E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241															
Cobalt-60	0.0E+00	1	UI			0	CN	5.4E-01	1	UI			0	GP	pCi/L
Curium-242															
Curium-243/244															
Curium-245/246															
Iodine-129															
Plutonium-238															
Plutonium-239/240															
Radium-226															
Radium-228															
Strontium-89															
Strontium-90															
Technetium-99															
Thorium-228															
Thorium-230															
Thorium-232															
Thorium-234	0.0E+00	1	UI			0	CN	9.7E+01	1	UI			0	GP	pCi/L
Tritium	3.3E+01	1		■		2	GP	4.3E+01	1		■		2	GP	pCi/mL
Uranium-233/234															
Uranium-235															
Uranium-238															

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243															
Nickel-63	0.0E+00					0		5.4E-01					0		pCi/L
Plutonium-241															
Plutonium-242															

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 8A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72721.0 E61113.9	33.286324 °N 81.647134 °W	118.8-108.8 ft msl	288.5 ft msl	2" PVC	V	U. Congaree (IIA)

SAMPLE DATE	07/11/94	11/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	171.8	172.2	ft msl
pH	6.5	6.3	pH
Sp. conductance	107	76	µS/cm
Water temperature	23.1	20.9	°C
Alkalinity as $CaCO_3$	37	27	mg/L
Turbidity	2	3	NTU
Volume purged	3.8	7.5	well volumes
Sampling code			
Synchronous water level	171.8 (09/29/94)	172.4 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	53	1	V			0	CN	39	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	0.020	1	J			0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	72	1	J	■		2	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	14	1	J			0	CN	2.2	1	J			0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	<20	1	Y			0	WA	22	1	J			0	GE	µg/L
Nitrate as nitrogen	79	1	Y			0	WA	92	1				0	GE	µg/L
pH	7.3	1	J1		•	0	CN	6.6	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 8A (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	5.0E-01	1				0	CN	1.6E+00	1	J			0	GP	pCi/L
Nonvolatile beta	1.8E+00	1	J3			0	GP	4.6E+00	1				0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	6.8E-02	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	-6.1E-01	1	UI			0	GP	pCi/L
Curium-242	-2.7E-02	1	UI			0	CN								pCi/L
Curium-243/244	-8.2E-02	1	UI			0	CN								pCi/L
Curium-245/246	4.9E-01	1				0	CN								pCi/L
Iodine-129	4.4E-01	1	UI			0	CN								pCi/L
Plutonium-238	7.1E-03	1	UI			0	CN								pCi/L
Plutonium-239/240	1.9E-02	1	UIV			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	-3.7E-01	1	UIV			0	CN								pCi/L
Technetium-99	3.0E+00	1	UI			0	CN								pCi/L
Thorium-228	3.7E-02	1	UIV			0	CN								pCi/L
Thorium-230	4.4E-01	1	V			0	CN								pCi/L
Thorium-232	1.8E-02	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	4.2E+00	1	UI			0	GP	pCi/L
Tritium	-1.1E-01	1	UI			0	GP	-9.7E-02	1	UI			0	GP	pCi/mL
Uranium-233/234	1.5E-01	1				0	CN								pCi/L
Uranium-235	1.9E-02	1	UI			0	CN								pCi/L
Uranium-238	5.6E-02	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-2.5E-04					0									pCi/L
Nickel-63	0.0E+00					0		-6.1E-01					0		pCi/L
Plutonium-241	7.4E-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 HSL 8AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72729.4 E61113.8	33.286343 °N 81.647150·°W	38.7-28.7 ft msl	288.8 ft msl	2" PVC	V	L. Congaree (IIA)

SAMPLE DATE	07/12/94	11/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	176.5	175.8	ft msl
pH	12.1	12.2	pH
Sp. conductance	5,420	4,640	µS/cm
Water temperature	22.4	21.3	°C
Alkalinity as $CaCO_3$	1538	1350	mg/L
Turbidity	1.4	2.8	NTU
Volume purged	0.66	0.62	well volumes
Sampling code	X	X	
Synchronous water level	175.4 (09/29/94)	175.6 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	370	1	Y			0	WA	260	15				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<30	15				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<60	15				0	GE	µg/L
Lead, total recoverable	14	1	Y			0	WA	150	2		■		2	GE	µg/L
Lindane	0.020	1	J			0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	2.5	1	J			0	CN	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<30	15				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1	Y			0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		●	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	<60	15				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1	Y			0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1	Y			0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<120	15				0	GE	µg/L
Zinc, total recoverable	16	1	J			0	CN	<30	15				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	580	1	Y	■		2	WA	590	15		■		2	GE	µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	12	1	J1	■	●	2	CN	13	1	J1	■	●	2	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1	Y			0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
● = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 8AA (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	4.4E+00	1				0	CN	1.9E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	4.9E+00	1				0	CN	3.1E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	2.2E-01	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.7E+00	1	UI			0	GP	pCi/L
Curium-242	7.1E-02	1	UI			0	CN								pCi/L
Curium-243/244	7.7E-03	1	UJI			0	CN								pCi/L
Curium-245/246	2.9E-01	1	UI			0	CN								pCi/L
Iodine-129	-7.7E-01	1	UI			0	CN								pCi/L
Plutonium-238	-1.6E-01	1	UI			0	CN								pCi/L
Plutonium-239/240	-5.5E-02	1	UIV			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	4.9E-02	1	UIV			0	CN								pCi/L
Technetium-99	3.1E+00	1	UI			0	CN								pCi/L
Thorium-228	2.2E-01	1	UIV			0	CN								pCi/L
Thorium-230	3.4E-01	1	V			0	CN								pCi/L
Thorium-232	2.0E-02	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	1.4E-01	1	UI			0	GP	pCi/L
Tritium	-3.9E-02	1	UI			0	CN	-2.7E-01	1	UI			0	GP	pCi/mL
Uranium-233/234	1.2E-02	1	UI			0	CN								pCi/L
Uranium-235	3.7E-04	1	UI			0	CN								pCi/L
Uranium-238	3.5E-02	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	2.3E-05					0									pCi/L
Nickel-63	0.0E+00					0		1.7E+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 HSL 8B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72710.2 E61115.0	33.286302 °N 81.647110 °W	148.7-138.7 ft msl	288.7 ft msl	2" PVC	V	McBean (IIB_1)

SAMPLE DATE	07/11/94	11/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	247.8	249.2	ft msl
pH	6.7	7	pH
Sp. conductance	205	130	µS/cm
Water temperature	22.3	21.5	°C
Alkalinity as $CaCO_3$	86	46	mg/L
Turbidity	10.5	6.1	NTU
Volume purged	4.4	8.6	well volumes
Sampling code			
Synchronous water level	248.4 (09/29/94)	249.0 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	6.1	1				0	CN	4.0	1				0	GE	µg/L
Barium, total recoverable	29	1	V			0	CN	21	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	<0.020	1				0	CN								µg/L
Mercury, total recoverable	0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<41	1	J			0	CN								µg/L
Benzene	<4.2	8.33				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	5.5	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<4.2	8.33				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	5.8	1	J			0	CN	<8.0	1				0	GE	µg/L
Zinc, total recoverable	14	1	J			0	CN	<2.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	250	1	V	■		2	CN	85	1		■		2	GE	µg/L
Nitrate as nitrogen	<20	1	Y			0	WA	<50	1				0	GE	µg/L
pH	7.2	1	JY3		•	0	WA	7.0	1	J1		•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<4.2	8.33				0	CN	1.1	1	J			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 HSL 8B (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	9.5E-01	1				0	CN	9.4E-01	1	UI			0	GP	pCi/L
Nonvolatile beta	2.7E+00	1				0	CN	2.2E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	-1.5E-01	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.1E+00	1	UI			0	GP	pCi/L
Curium-242	-1.5E-01	1	UI			0	CN								pCi/L
Curium-243/244	-2.2E+03	1	UI			0	CN								pCi/L
Curium-245/246	3.6E-01	1				0	CN								pCi/L
Iodine-129	-5.7E-01	1	UI			0	CN								pCi/L
Plutonium-238	1.8E-01	1	UI			0	CN								pCi/L
Plutonium-239/240	8.8E-02	1	UIV			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	1.2E-01	1	UIV			0	CN								pCi/L
Technetium-99	7.1E+00	1	UI			0	CN								pCi/L
Thorium-228	1.3E-01	1	UIV			0	CN								pCi/L
Thorium-230	6.1E-01	1	V			0	CN								pCi/L
Thorium-232	-2.6E-02	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	1.1E+01	1	UI			0	GP	pCi/L
Tritium	1.3E+01	1				1	CN	6.4E+00	1				0	GP	pCi/mL
Uranium-233/234	3.2E-02	1	UI			0	CN								pCi/L
Uranium-235	0.0E+00	1	UI			0	CN								pCi/L
Uranium-238	0.0E+00	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-6.5E+00					0									pCi/L
Nickel-63	0.0E+00					0		1.1E+00					0		pCi/L
Plutonium-241	3.5E-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 HSL 8C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72700.5 E61115.9	33.286282 °N 81.647089 °W	181.7-171.7 ft msl	288.7 ft msl	2" PVC	V	Barnwell (IIB_1)

SAMPLE DATE	07/11/94	11/07/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	249.1	250.4	ft msl
pH	10.9	10.8	pH
Sp. conductance	453	241	µS/cm
Water temperature	22.5	21.9	°C
Alkalinity as $CaCO_3$	130	92	mg/L
Turbidity	1.7	4.8	NTU
Volume purged	3.0	8.9	well volumes
Sampling code			
Synchronous water level	249.6 (09/29/94)	250.3 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	93	1	Y			0	WA	70	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	<3.0	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	<0.020	1	J			0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<2.1	4.17				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	<24	1	V			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<2.1	4.17				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	13	1	Y			0	WA	9.8	1	J			0	GE	µg/L
Zinc, total recoverable	13	1	J			0	CN	<2.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	3,900	1	Y	■		2	WA	3,000	1		■		2	GE	µg/L
Nitrate as nitrogen	61	1	Y			0	WA	110	1				0	GE	µg/L
pH	11	1	J1	■	•	2	CN	11	1	J1	■	•	2	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	3.8	4.17				1	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 8C (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	2.3E+00	1				0	CN	1.2E+00	1	UI			0	GP	pCi/L
Nonvolatile beta	4.5E+00	1				0	CN	1.9E+00	1	J			0	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.4E-01	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	1.1E+00	1	UI			0	GP	pCi/L
Curium-242	0.0E+00	1	UI			0	CN								pCi/L
Curium-243/244	-1.3E-01	1	UI			0	CN								pCi/L
Curium-245/246	-9.6E-02	1	UI			0	CN								pCi/L
Iodine-129	3.4E-01	1	UI			0	CN								pCi/L
Plutonium-238	-6.2E-02	1	UI			0	CN								pCi/L
Plutonium-239/240	-5.0E-02	1	UI			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	-2.8E-01	1	UIV			0	CN								pCi/L
Technetium-99	3.1E+01	1				0	CN								pCi/L
Thorium-228	4.2E-01	1	V			0	CN								pCi/L
Thorium-230	5.0E-01	1	V			0	CN								pCi/L
Thorium-232	9.3E-03	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	7.4E+00	1	UI			0	GP	pCi/L
Tritium	3.9E+01	1		■		2	CN	2.4E+01	1		■		2	GP	pCi/mL
Uranium-233/234	3.9E-02	1	UI			0	CN								pCi/L
Uranium-235	6.9E-02	1	UI			0	CN								pCi/L
Uranium-238	4.0E-02	1	UI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-3.8E-04					0									pCi/L
Nickel-63	0.0E+00					0		1.1E+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 HSL 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72688.1 E61117.1	33.286257 °N 81.647061 °W	268.4-248.4 ft msl	288.7 ft msl	2" PVC	V	Water Table (IIB_2)

SAMPLE DATE	07/12/94	11/04/94	
FIELD DATA			
Parameter	3Q94	4Q94	Unit
Water elevation	258.7	260.8	ft msl
pH	4.9	5.8	pH
Sp. conductance	135	270	µS/cm
Water temperature	23.9	23.2	°C
Alkalinity as $CaCO_3$	1	9	mg/L
Turbidity	208	14.5	NTU
Volume purged	0.59	1.5	well volumes
Sampling code	X	X	
Synchronous water level	259.4 (09/29/94)	260.2 (12/21/94)	ft msl

Hazardous Constituents (264.94, Table 1)

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Arsenic, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Barium, total recoverable	18	1	JV			0	CN	24	1				0	GE	µg/L
Cadmium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Chromium, total recoverable	7.2	1	Y			0	WA	<4.0	1				0	GE	µg/L
Lead, total recoverable	3.3	1	Y			0	WA	<3.0	1				0	GE	µg/L
Lindane	<0.020	1				0	CN								µg/L
Mercury, total recoverable	<0.10	1				0	CN	<0.20	1				0	GE	µg/L
Selenium, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L
Silver, total recoverable	<2.0	1	Y			0	WA	<2.0	1				0	GE	µg/L

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

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Antimony, total recoverable	<60	1	J			0	CN								µg/L
Benzene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Cobalt, total recoverable	<19	1				0	CN								µg/L
Copper, total recoverable	3.5	1	J			0	CN								µg/L
Cyanide	<310	1	J		•	0	CN								µg/L
Nickel, total recoverable	<4.0	1	Y			0	WA	<4.0	1				0	GE	µg/L
Tin, total recoverable															
Trichloroethylene	<0.50	1				0	CN	<1.0	1				0	GE	µg/L
Trichlorofluoromethane	<5.0	1	Y			0	WA	<1.0	1				0	GE	µg/L
Vanadium, total recoverable	<3.0	1	Y			0	WA	<8.0	1				0	GE	µg/L
Zinc, total recoverable	15	1	J			0	CN	5.0	1				0	GE	µg/L

Water Quality Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Aluminum, total recoverable	300	1	Y	■		2	WA								µg/L
Nitrate as nitrogen	11,000	20	Y	■		2	WA	28,000	40		■		2	GE	µg/L
pH	6.8	1	J1		•	0	CN	5.7	1	J1	■	•	0	GE	pH

Common Laboratory Contaminants

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Bis(2-ethylhexyl) phthalate	<2.2	1				0	CN								µg/L
Dichloromethane	<0.50	1				0	CN	<1.0	1				0	GE	µg/L

Note: See Appendix B for flagging criteria. Synchronous water levels are measured over a 3-5 day period.
• = exceeded holding time.
■ = exceeded groundwater protection standard.

WELL HSL 8D (cont.)

Radiological Indicator Parameters

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Gross alpha	1.3E+00	1	J3			0	GP	3.5E+00	1	J			0	GP	pCi/L
Nonvolatile beta	8.4E+00	1				0	CN	4.8E+01	1				1	GP	pCi/L

Measured Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-241	1.7E-01	1	UI			0	CN								pCi/L
Cobalt-60	0.0E+00	1	UI			0	CN	2.9E+00	1	UI			0	GP	pCi/L
Curium-242	7.0E-02	1	UI			0	CN								pCi/L
Curium-243/244	-2.0E-01	1	UI			0	CN								pCi/L
Curium-245/246	2.8E-01	1				0	CN								pCi/L
Iodine-129	2.2E-01	1	UI			0	CN								pCi/L
Plutonium-238	2.5E-01	1	UI			0	CN								pCi/L
Plutonium-239/240	2.3E-01	1	UI			0	CN								pCi/L
Radium-226															
Radium-228															
Strontium-89															
Strontium-90	3.6E-02	1	UIV			0	CN								pCi/L
Technetium-99	6.5E+02	1				1	CN								pCi/L
Thorium-228	-1.5E-01	1	UIV			0	CN								pCi/L
Thorium-230	5.1E-01	1	V			0	CN								pCi/L
Thorium-232	5.7E-02	1	UIV			0	CN								pCi/L
Thorium-234	0.0E+00	1	UI			0	CN	6.0E+01	1	UI			0	GP	pCi/L
Tritium	1.3E+03	1		■		2	GP	3.2E+03	1		■		2	GP	pCi/mL
Uranium-233/234	1.0E-03	1	UI			0	CN								pCi/L
Uranium-235	5.0E-02	1	UI			0	CN								pCi/L
Uranium-238	1.4E-02	1	UJI			0	CN								pCi/L

Calculated Radionuclides

Parameter	3Q94	DF	Mod	ST	H	Flag	Lab	4Q94	DF	Mod	ST	H	Flag	Lab	Unit
Americium-243	-6.0E-04					0									pCi/L
Nickel-63	0.0E+00					0		2.9E+00					0		pCi/L
Plutonium-241	9.3E-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.

Appendix E

Data Quality/Usability Assessment

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Data Quality/Usability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory and are reviewed prior to publication of results. The review by the Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; its review of the QA/QC data cannot be completed in time to meet the deadlines for the reports required by the Resource Conservation and Recovery Act and associated regulations. Other site and regulatory personnel can obtain further information on the data quality and usability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QA/QC information either at the same time as analytical results or in quarterly summaries. Properly defined and used result modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Result modifiers designed by EPD/EMS and used by the primary laboratories are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by analysis of results obtained from known samples. The non-radionuclide contract laboratories analyze commercial reference samples every quarter at EPD/EMS' request. The results of these analyses are presented in the EPD/EMS groundwater monitoring quarterly reports. The primary laboratories also seek or maintain state certification by participating periodically in performance studies; reference samples and analysis of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceed established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches.

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples and blanks in each analytical batch. In analyses of semivolatile organics, three acid compounds and three base/neutral compounds are used. Two surrogates are used in organochlorine pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered into the database, but they are not published. If recoveries are not within specified limits, the laboratory is expected to reanalyze the samples or attach qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A sample is analyzed unspiked to determine a baseline set of values. A second portion of the sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically five volatile organic compounds for volatile organics analyses, eleven semivolatile compounds for semivolatiles, six pesticide compounds for pesticides, all metals for metals analyses by SW-846 methods (EPA, 1986), and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS but are not published. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/ matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a laboratory is having a systematic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers assigned by the laboratories on the basis of the percentage of spike recovery are reported in the published results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates initiated by the laboratory and blind replicates provided by EPD/EMS. The results of duplicate and replicate analyses are presented in those results tables of the quarterly reports which report only one quarter of data, usually during first, second, and third quarters. Duplicate and replicate results are not presented in results tables that report more than one quarter of data, generally provided in fourth quarter reports. In this case, the results tables instead present only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference (RPD) for each pair of laboratory-initiated duplicate results. One of the contract laboratories uses a data qualifier (J3) to modify metals analyses when the RPD for laboratory duplicates is greater than 20 percent.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the mean relative difference (MRD) which is similar to EPA's RPD except that the MRD is the average of all the RPD values from one laboratory for each compound (intralaboratory MRD) or all the RPD values from all laboratories for each compound (interlaboratory MRD), during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all duplicate and replicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important component of determining data usability. EPA has conducted extensive research and

development on the methods approved for the analysis of water and waste water; information on the accuracy and precision of a method is available from EPA publications, as is full information on required QA/QC procedures. A listing of the methods used by the primary laboratories during fourth quarter 1993 is given below along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results.

Methods Used by the Contract Laboratories

Method	Used to Analyze	Source
EPA120.1	Specific conductance	EPA EMSL, 1983
EPA150.1	pH	EPA EMSL, 1983
EPA160.1	Total dissolved solids	EPA EMSL, 1983
EPA160.2	Total dissolved solids, total suspended solids	EPA EMSL, 1983
EPA180.1	Turbidity	EPA EMSL, 1983
EPA200.7	Metals	EPA EMSL, 1983
EPA204.2	Antimony	EPA EMSL, 1983
EPA206.2	Arsenic	EPA EMSL, 1983
EPA239.2	Lead	EPA EMSL, 1983
EPA245.1	Mercury	EPA EMSL, 1983
EPA270.2	Selenium	EPA EMSL, 1983
EPA279.2	Thallium	EPA EMSL, 1983
EPA300.0	Chloride, nitrite, sulfate	EPA EMSL, 1991
EPA310.1	Alkalinity	EPA EMSL, 1983
EPA325.2	Chloride	EPA EMSL, 1983
EPA335.3	Cyanide	EPA EMSL, 1983
EPA340.2	Fluoride	EPA EMSL, 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL, 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL, 1983
EPA365.1	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA376.2	Sulfide	EPA EMSL, 1983
EPA413.1	Oil & grease	EPA EMSL, 1983
EPA415.1	Dissolved organic carbon, total inorganic carbon, total organic carbon	EPA EMSL, 1983
EPA418.1	Total petroleum hydrocarbons	EPA EMSL, 1983
EPA420.2	Phenols	EPA EMSL, 1983
EPA900.0	Gross alpha, nonvolatile beta	EPA EMSL, 1980
EPA900.1	Total alpha-emitting radium	EPA EMSL, 1980
EPA906.0	Tritium	EPA EMSL, 1980
EPA6010	Metals	EPA, 1986
EPA7041	Antimony	EPA, 1986
EPA7060	Arsenic	EPA, 1986
EPA7421	Lead	EPA, 1986
EPA7470	Mercury	EPA, 1986
EPA7740	Selenium	EPA, 1986
EPA7841	Thallium	EPA, 1986
EPA8010	Chlorinated volatile organics	EPA, 1986
EPA8080	Organochlorine pesticides and PCBs	EPA, 1986
EPA8150	Chlorinated herbicides	EPA, 1986
EPA8240	GCMS volatiles	EPA, 1986
EPA8270	GCMS semivolatiles	EPA, 1986
EPA8280	Dioxins and furans	EPA, 1986
EPA9012	Cyanide	EPA, 1986
EPA9020	Total organic halogens	EPA, 1986
EPA9020A	Total organic halogens	EPA, 1986
EPA9030	Sulfide	EPA, 1986

Method	Used to Analyze	Source
EPA9060	Dissolved organic carbon, total inorganic carbon, total organic carbon	EPA, 1986

An example of available method-specific QA/QC information is that for the analysis of metals by EPA Method 6010/200.7 (EPA, 1986/EPA EMSL, 1983). The primary laboratories, General Engineering Laboratories (GE) and Roy F. Weston, Inc. (Weston), use this inductively coupled plasma (ICP) atomic emission spectrometric method.

The following precision and accuracy data are based on the experience of seven laboratories that applied the ICP technique to acid-distilled water matrices that had been spiked with various metal concentrates. (Note: Not all seven laboratories analyzed all 14 elements.) The references give results for samples having three concentration ranges; the results here are for samples having the lowest values, similar to actual groundwater results for SRS.

ICP Precision and Accuracy Data

Element	True value (µg/L)	Mean reported value (µg/L)	Mean percent RSD[a]
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

Parameter	Accuracy as recovery, X'[a] (µg/L)	Single analyst precision (µg/L)[b]	Overall precision (µg/L)[c]
Bromodichloromethane	$1.12C-1.02$[d]	$0.11\overline{X}+0.04$[e]	$0.20\overline{X}+1.00$
Bromoform	$0.96C-2.05$	$0.12\overline{X}+0.58$	$0.21\overline{X}+2.41$
Bromomethane	$0.76C-1.27$	$0.28\overline{X}+0.27$	$0.36\overline{X}+0.94$
Carbon tetrachloride	$0.98C-1.04$	$0.15\overline{X}+0.38$	$0.20\overline{X}+0.39$
Chlorobenzene	$1.00C-1.23$	$0.15\overline{X}-0.02$	$0.18\overline{X}+1.21$
Chloroethane	$0.99C-1.53$	$0.14\overline{X}-0.13$	$0.17\overline{X}+0.63$
2-Chloroethyl vinyl ether[f]	$1.00C$	$0.20\overline{X}$	$0.35\overline{X}$

Parameter	Accuracy as recovery, X' (µg/L)	Single analyst precision (µg/L)	Overall precision (µg/L)
Chloroform	0.93C–0.39	0.13$\overline{X}$+0.15	0.19$\overline{X}$–0.02
Chloromethane	0.77C+0.18	0.28$\overline{X}$–0.31	0.52$\overline{X}$+1.31
Dibromochloromethane	0.94C+2.72	0.11$\overline{X}$+1.10	0.24$\overline{X}$+1.68
1,2-Dichlorobenzene	0.93C+1.70	0.20$\overline{X}$+0.97	0.13$\overline{X}$+6.13
1,3-Dichlorobenzene	0.95C+0.43	0.14$\overline{X}$+2.33	0.26$\overline{X}$+2.34
1,4-Dichlorobenzene	0.93C–0.09	0.15$\overline{X}$+0.29	0.20$\overline{X}$+0.41
1,1-Dichloroethane	0.95C–1.08	0.09$\overline{X}$+0.17	0.14$\overline{X}$+0.94
1,2-Dichloroethane	1.04C–1.06	0.11$\overline{X}$+0.70	0.15$\overline{X}$+0.94
1,1-Dichloroethene	0.98C–0.87	0.21$\overline{X}$–0.23	0.29$\overline{X}$–0.40
trans-1,2-Dichloroethene	0.97C–0.16	0.11$\overline{X}$+1.46	0.17$\overline{X}$+1.46
Dichloromethane (Methylene chloride)	0.91C–0.93	0.11$\overline{X}$+0.33	0.21$\overline{X}$+1.43
1,2-Dichloropropane[f]	1.00C	0.13$\overline{X}$	0.23$\overline{X}$
cis-1,3-Dichloropropene[f]	1.00C	0.18$\overline{X}$	0.32$\overline{X}$
trans-1,3-Dichloropropene[f]	1.00C	0.18$\overline{X}$	0.32$\overline{X}$
1,1,2,2-Tetrachloroethane	0.95C+0.19	0.14$\overline{X}$+2.41	0.23$\overline{X}$+2.79
Tetrachloroethylene	0.94C+0.06	0.14$\overline{X}$+0.38	0.18$\overline{X}$+2.21
1,1,1-Trichloroethane	0.90C–0.16	0.15$\overline{X}$+0.04	0.20$\overline{X}$+0.37
1,1,2-Trichloroethane	0.86C+0.30	0.13$\overline{X}$–0.14	0.19$\overline{X}$+0.67
Trichloroethylene	0.87C+0.48	0.13$\overline{X}$–0.03	0.23$\overline{X}$+0.30
Trichlorofluoromethane	0.89C–0.07	0.15$\overline{X}$+0.67	0.26$\overline{X}$+0.91
Vinyl chloride	0.97C–0.36	0.13$\overline{X}$+0.65	0.27$\overline{X}$+0.40

[a] X' = expected recovery for one or more measurements of a sample containing a concentration of C, in µg/L.
[b] Expected single analyst standard deviation of measurements.
[c] Expected interlaboratory standard deviation of measurements.
[d] C = true value for the concentration, in µg/L.
[e] $\overline{X}$ = average recovery found for measurements of samples containing a concentration of C, in µg/L.
[f] Estimates based on performance of a single laboratory.

References Cited

EPA (U.S. Environmental Protection Agency), 1986. **Test Methods for Evaluating Solid Waste (SW-846)**, Volumes IA–IC. Washington, DC.

EPA (U.S. Environmental Protection Agency), 1991. *Guidelines Establishing Test Procedures for the Analysis of Pollutants,* **Code of Federal Regulations**, Title 40, Part 136, Appendix A. Washington, DC.

EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1980. **Prescribed Procedures for Measurement of Radioactivity in Drinking Water**, EPA-600/4-80-032. Cincinnati, OH.

EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1983. **Methods for Chemical Analysis of Water and Wastes**. Cincinnati, OH.

EPA EMSL (U.S. Environmental Protection Agency, Environmental Monitoring and Systems Laboratory), 1991. **Test Method, The Determination of Inorganic Anions in Water by Ion Chromatography—Method 300.0**. Cincinnati, OH.

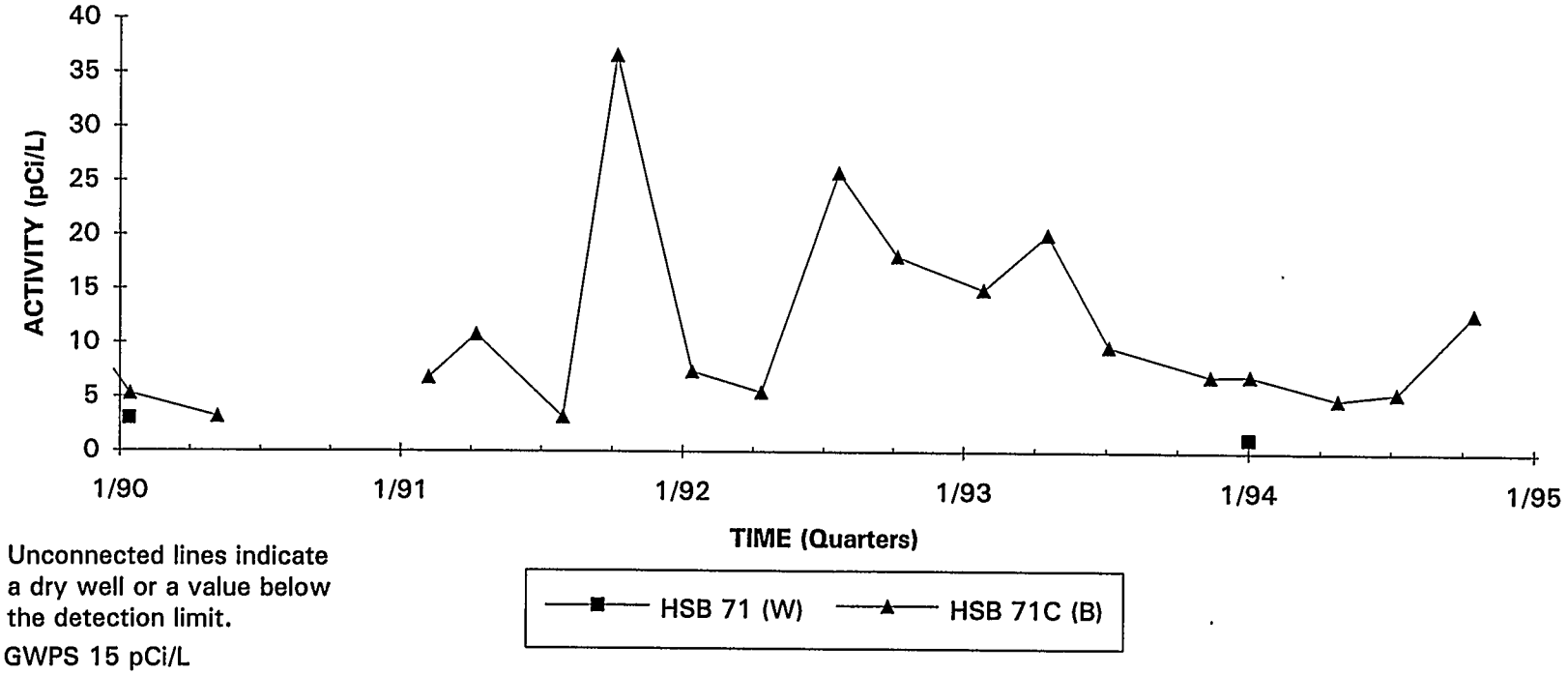
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Appendix F

Time Series Plots

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Gross Alpha Activities
Well Cluster HSB 71

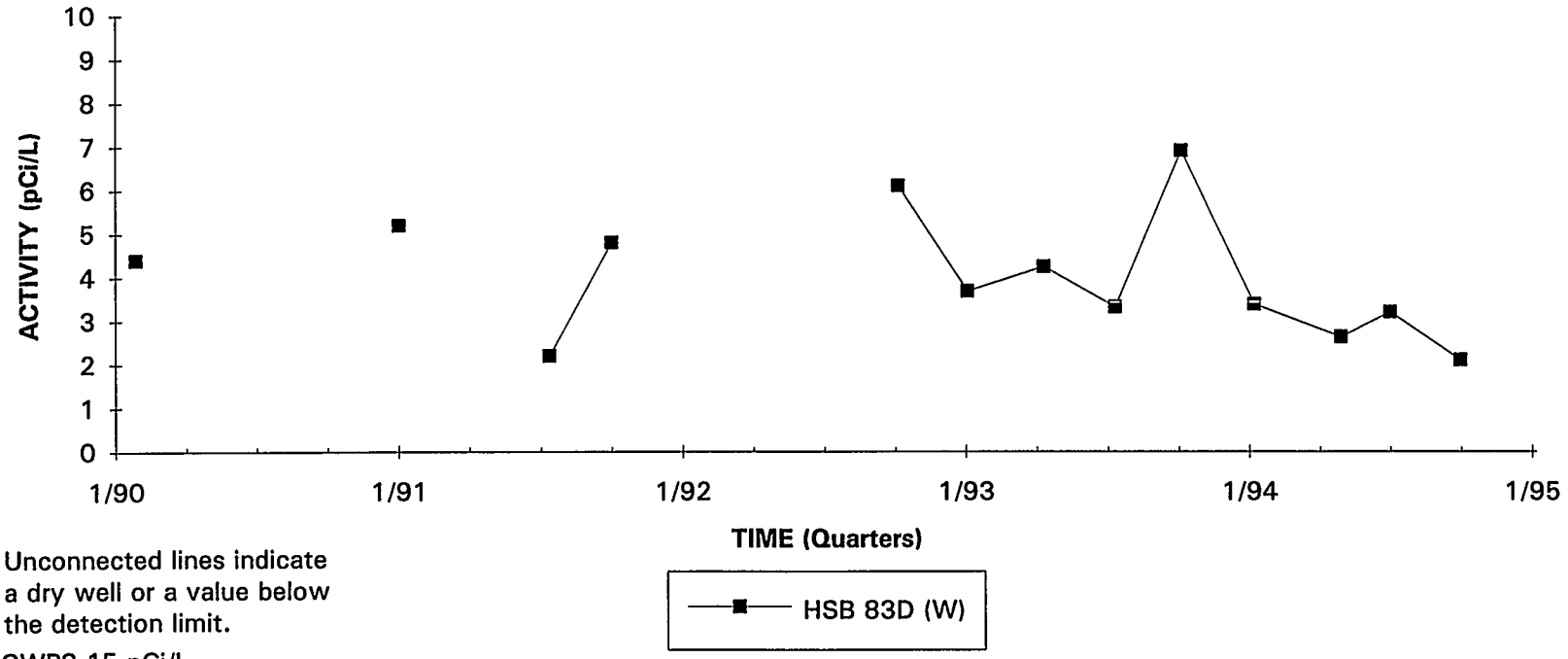


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB 83D

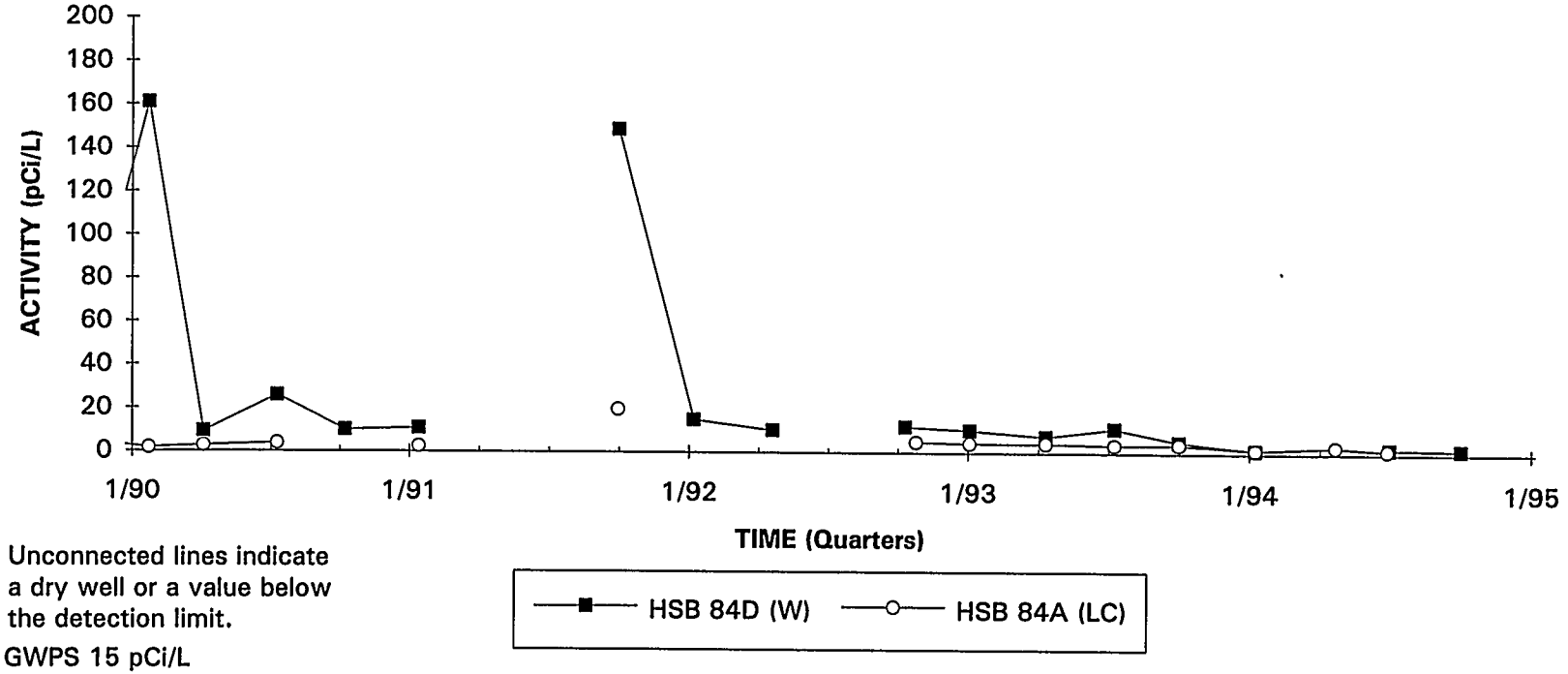


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB 84

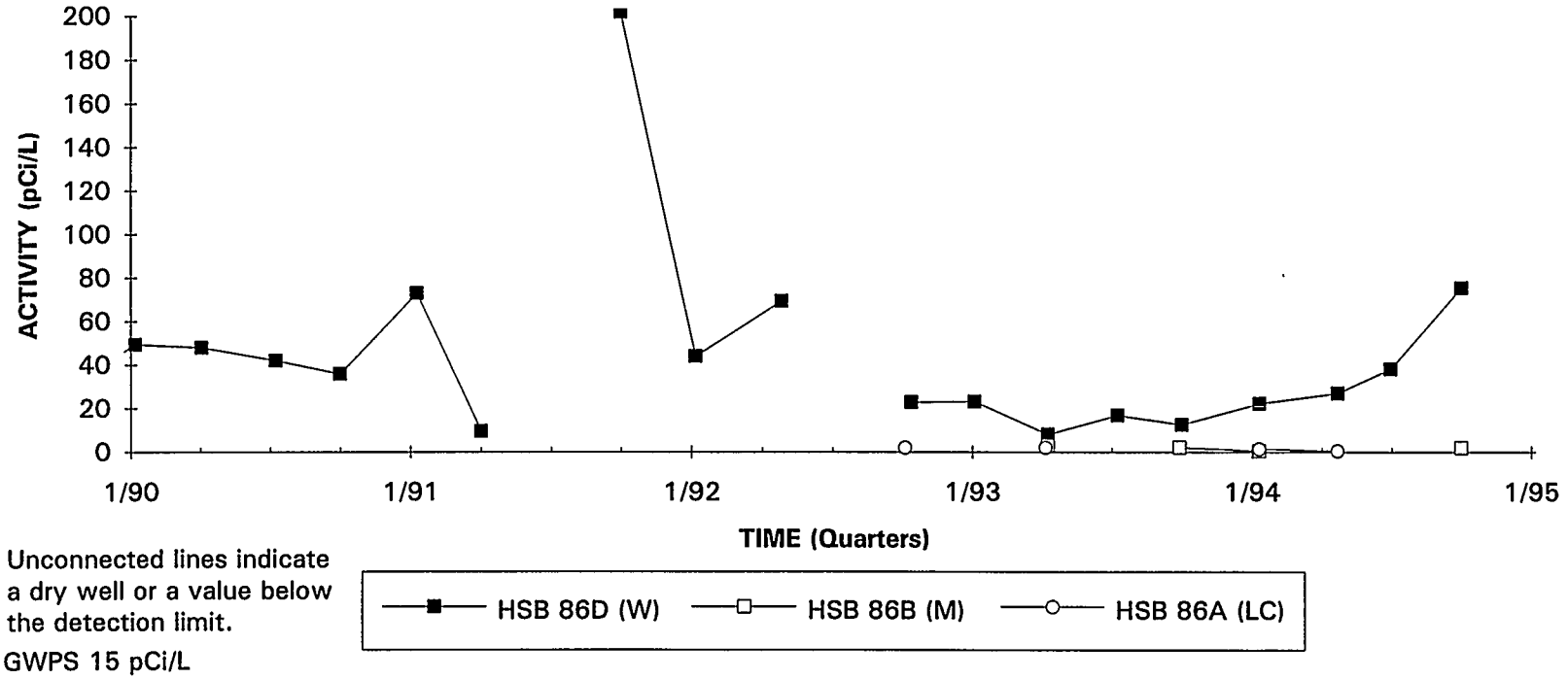


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB 86

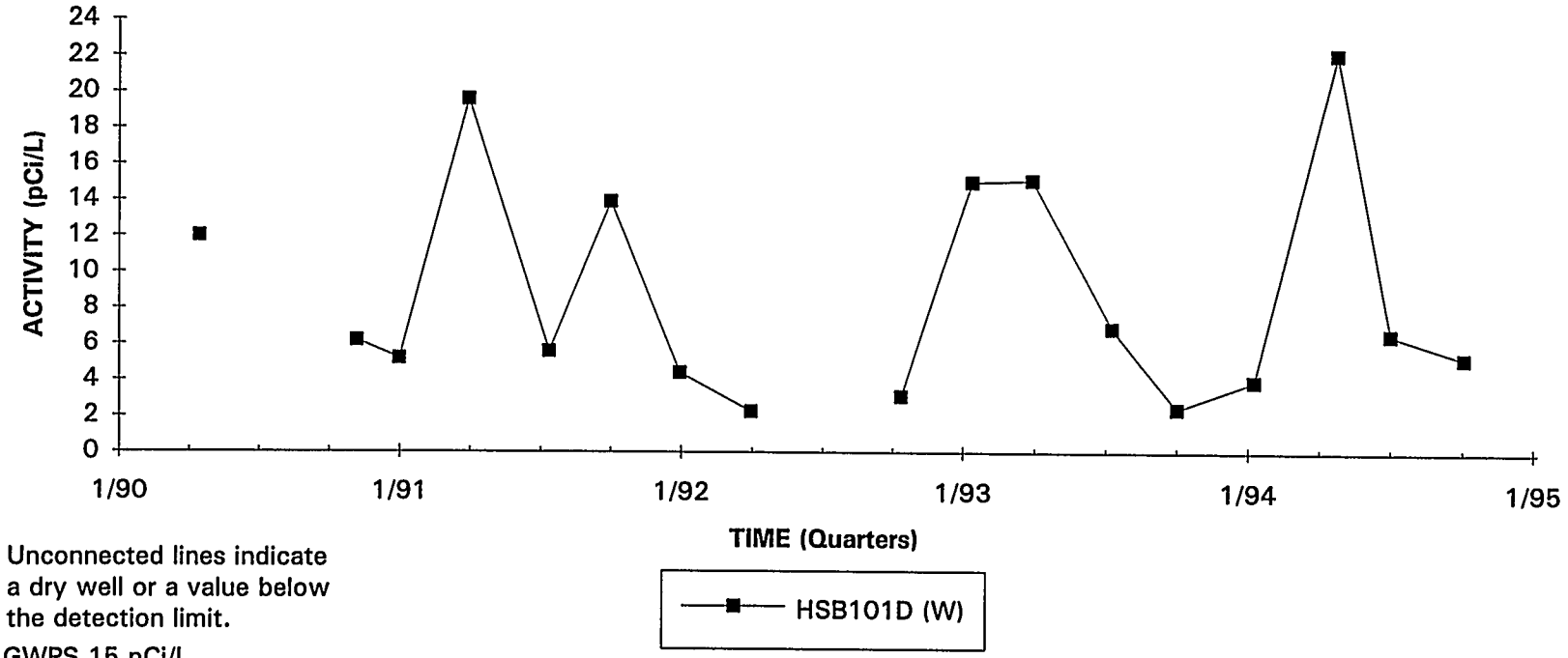


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB101D

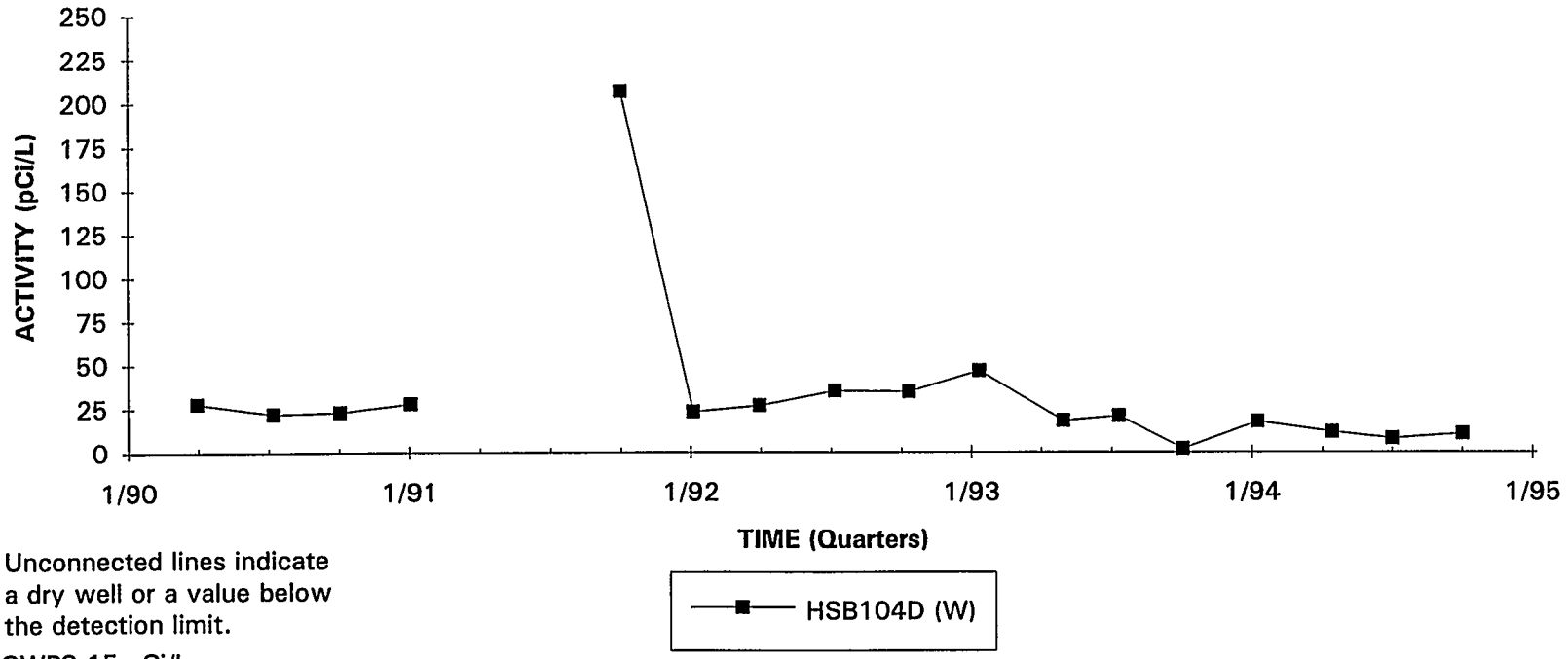


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB104D

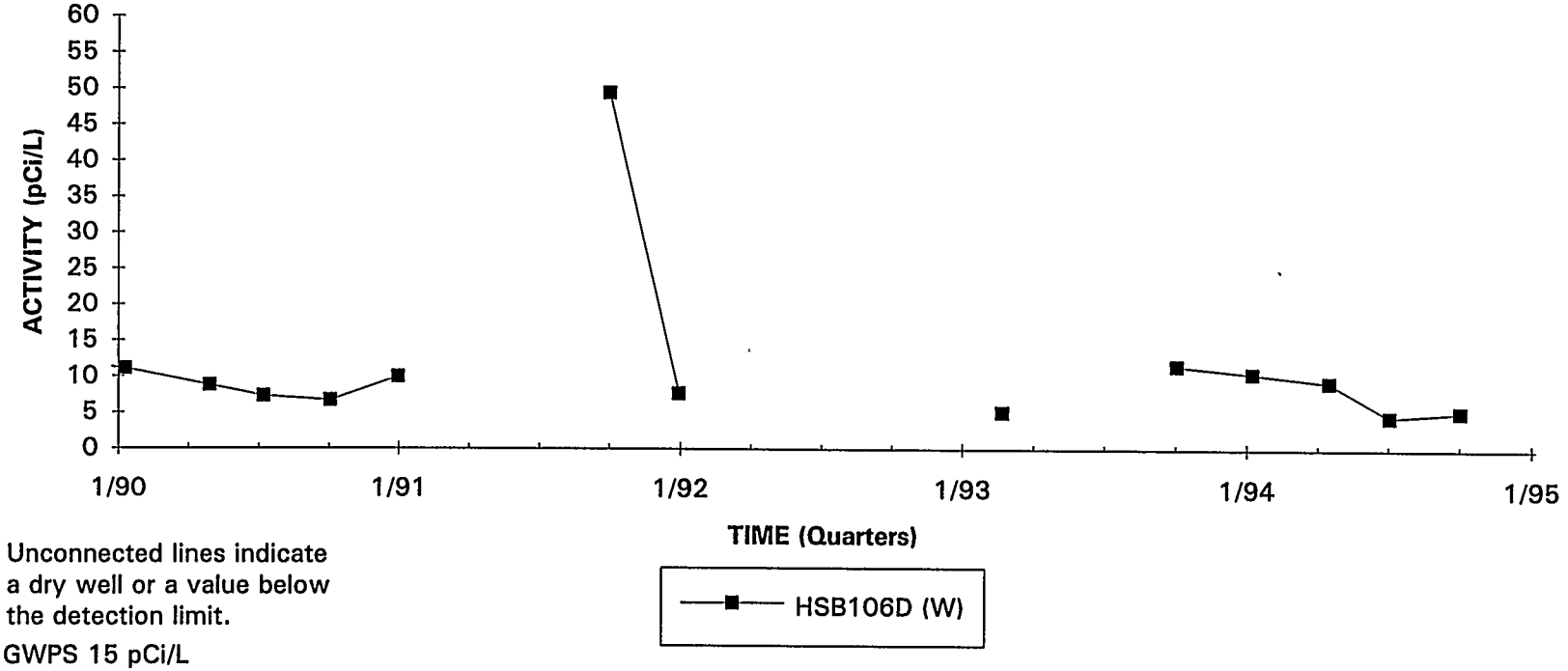


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB106D

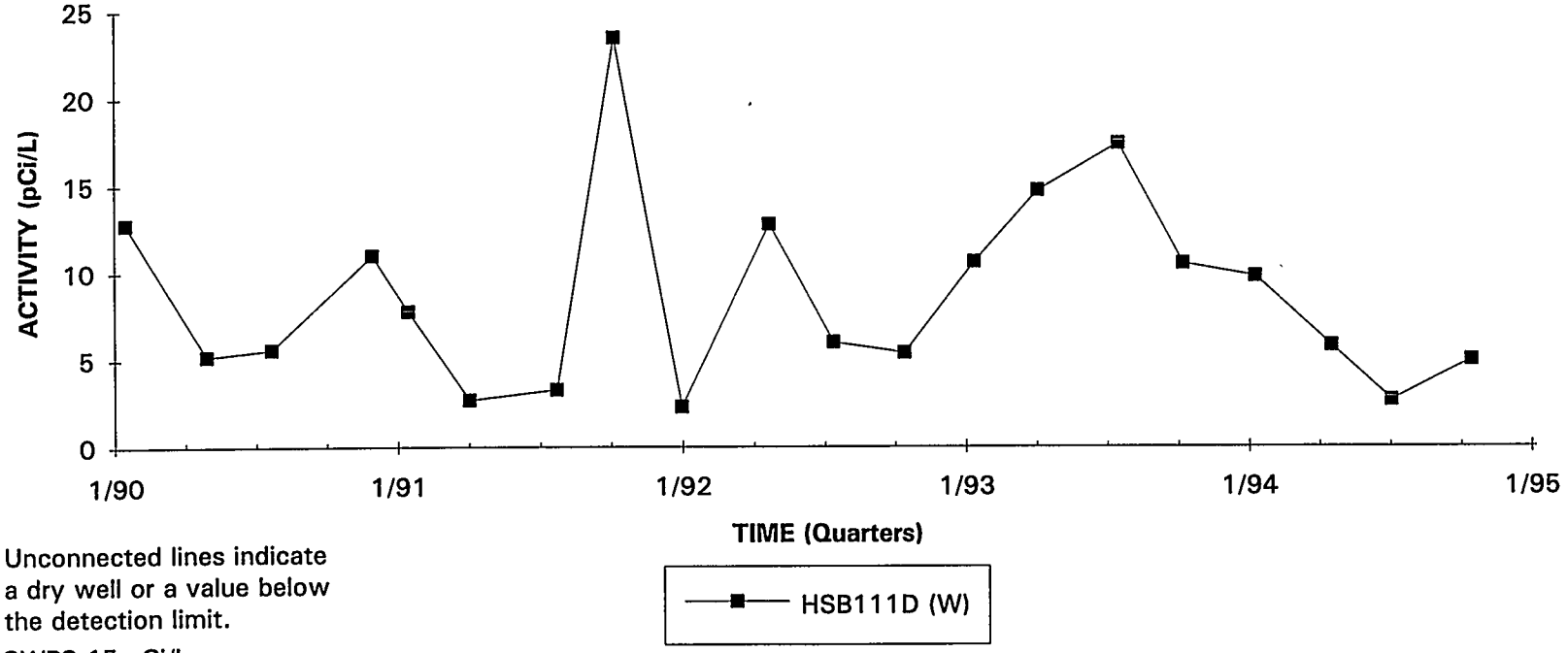


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB111D

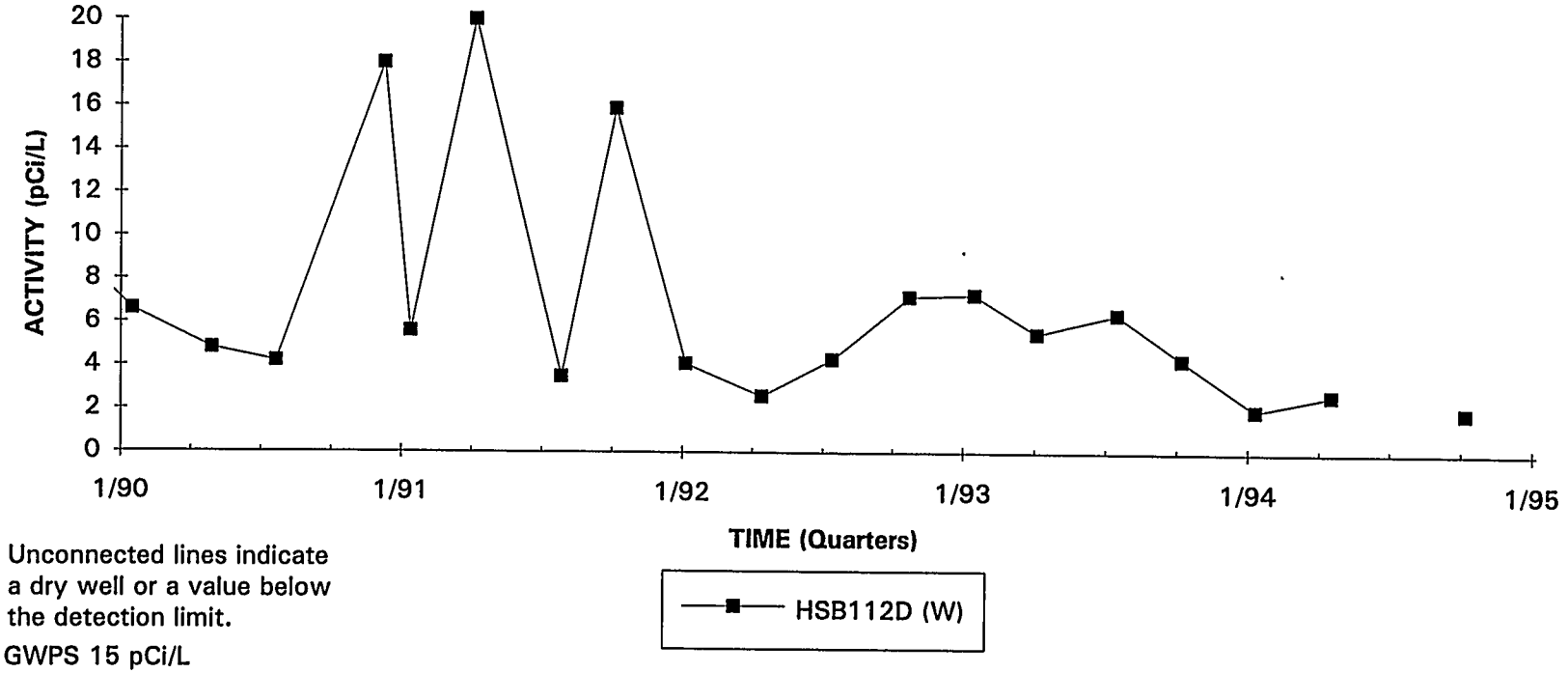


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB112D

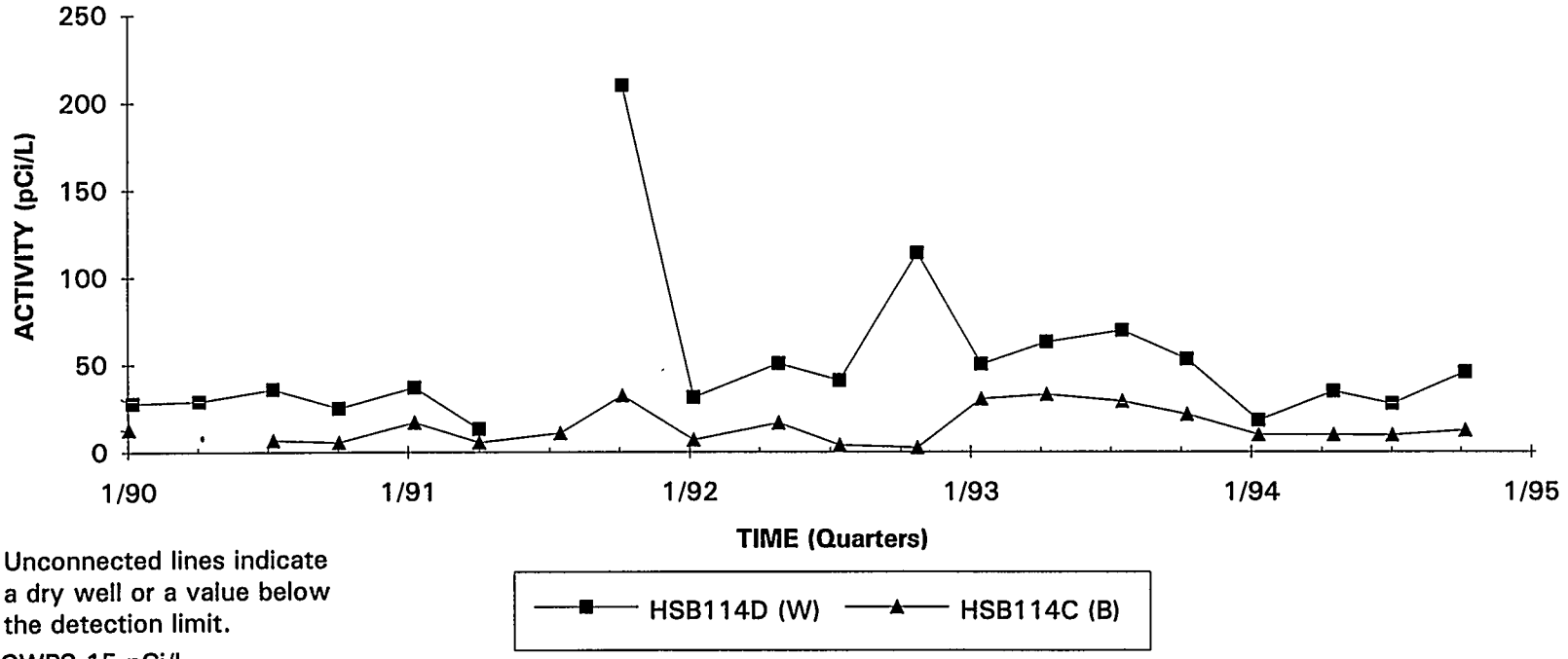


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB114

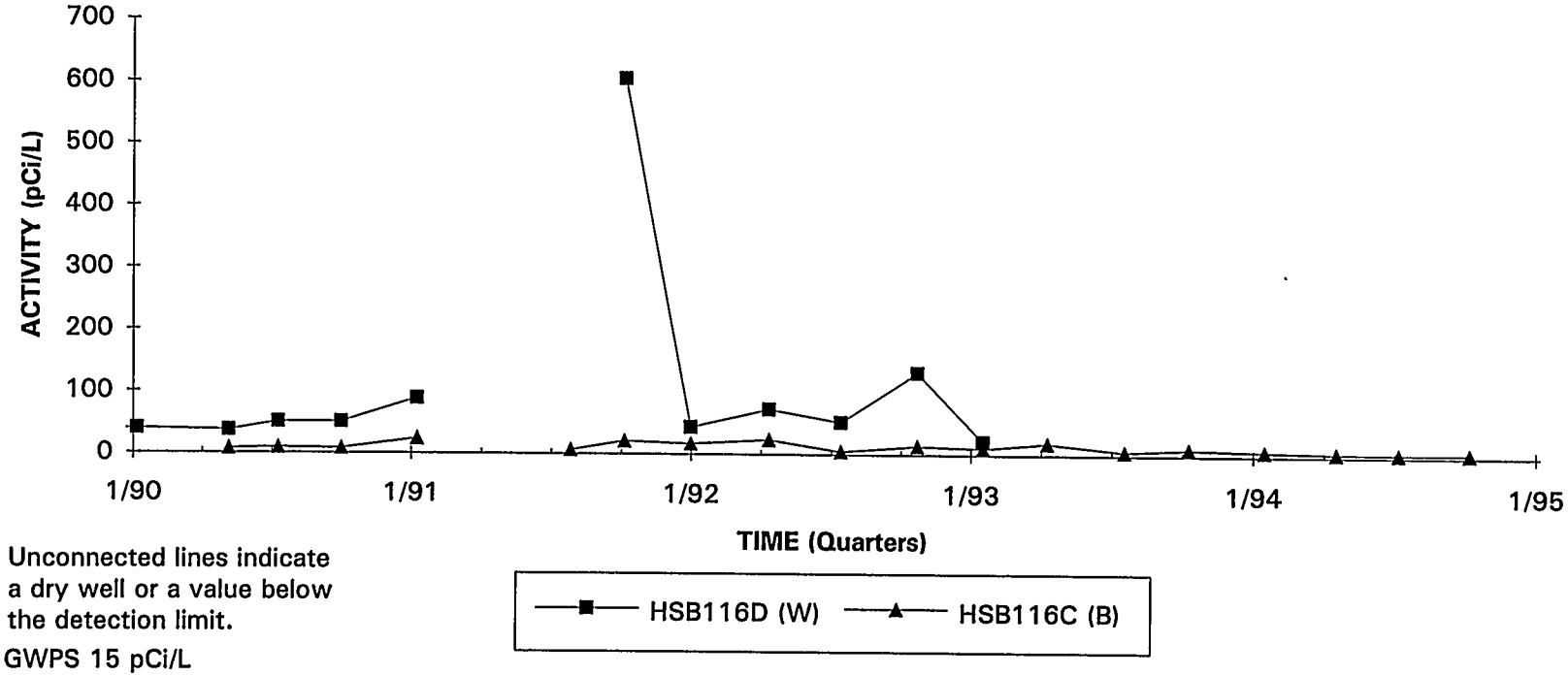


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB116

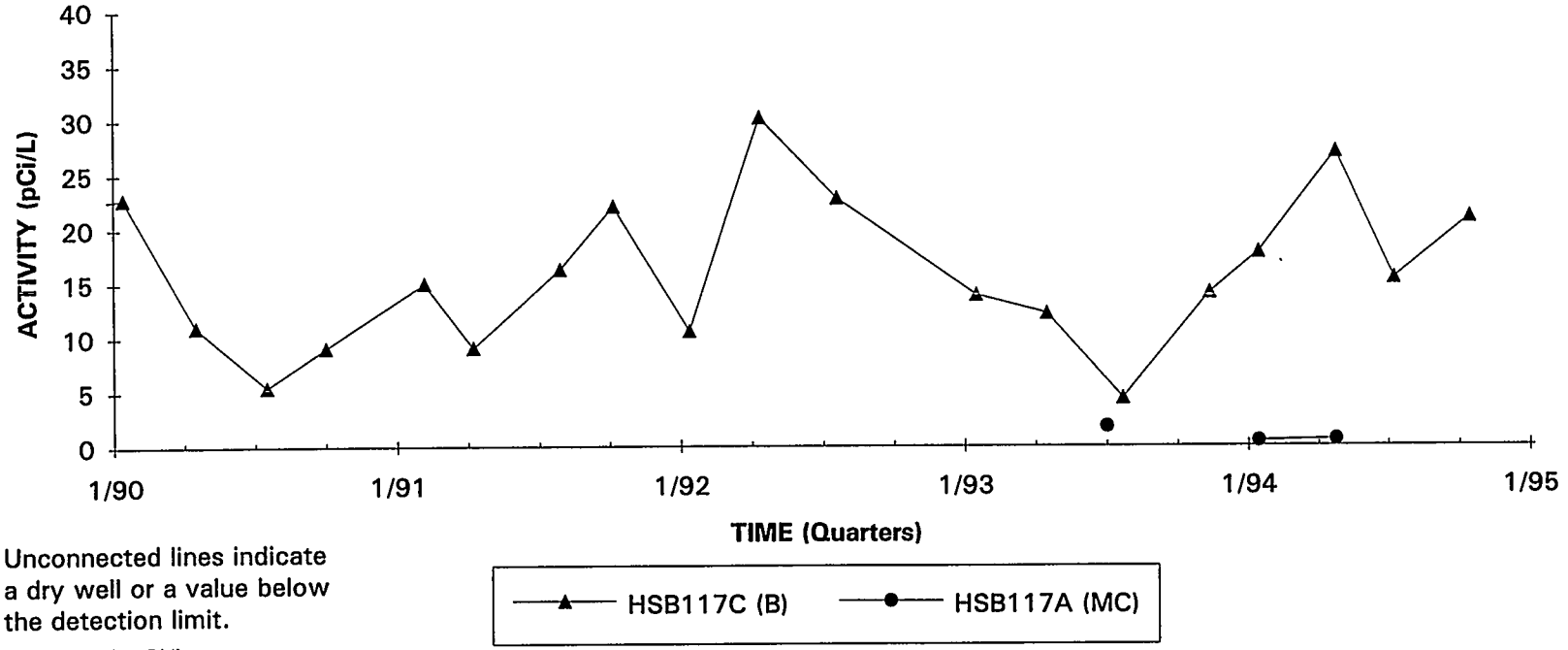


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB117

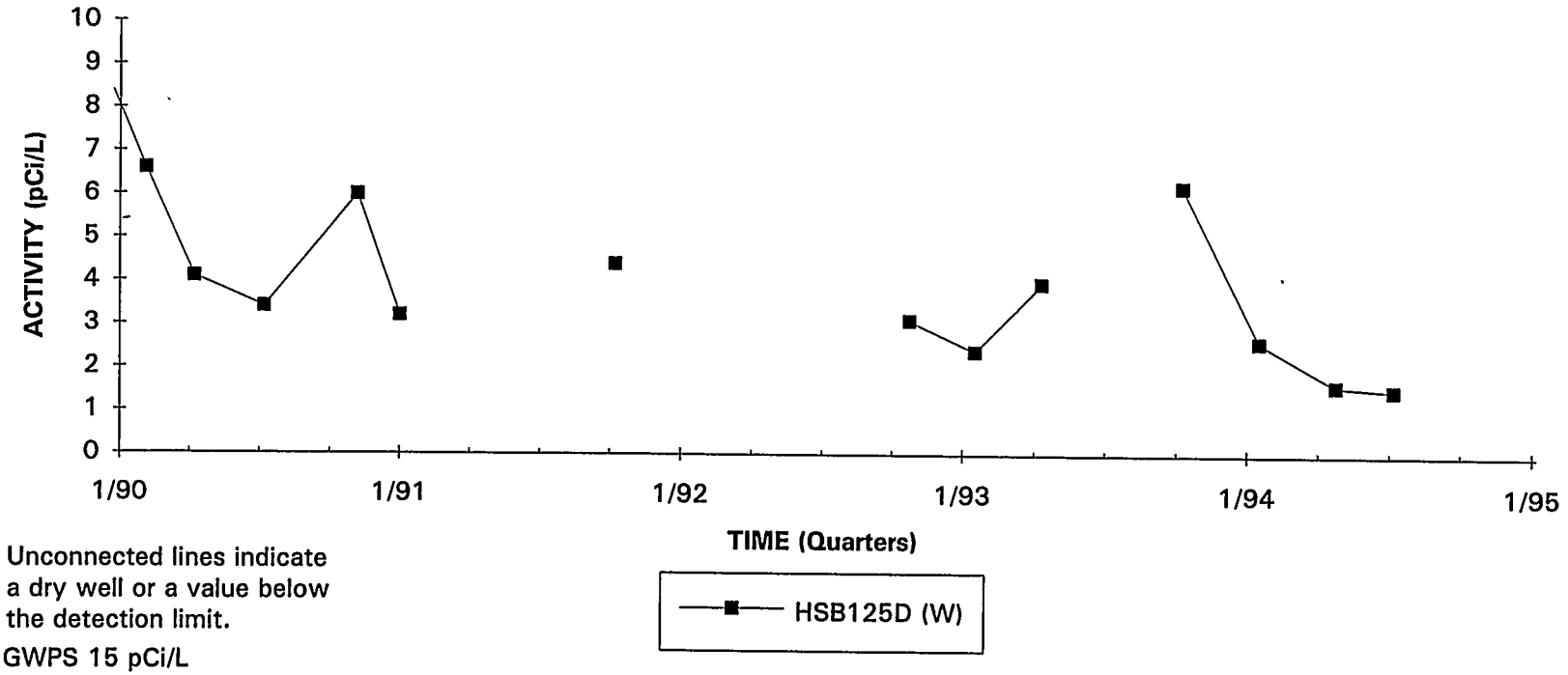


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB125D

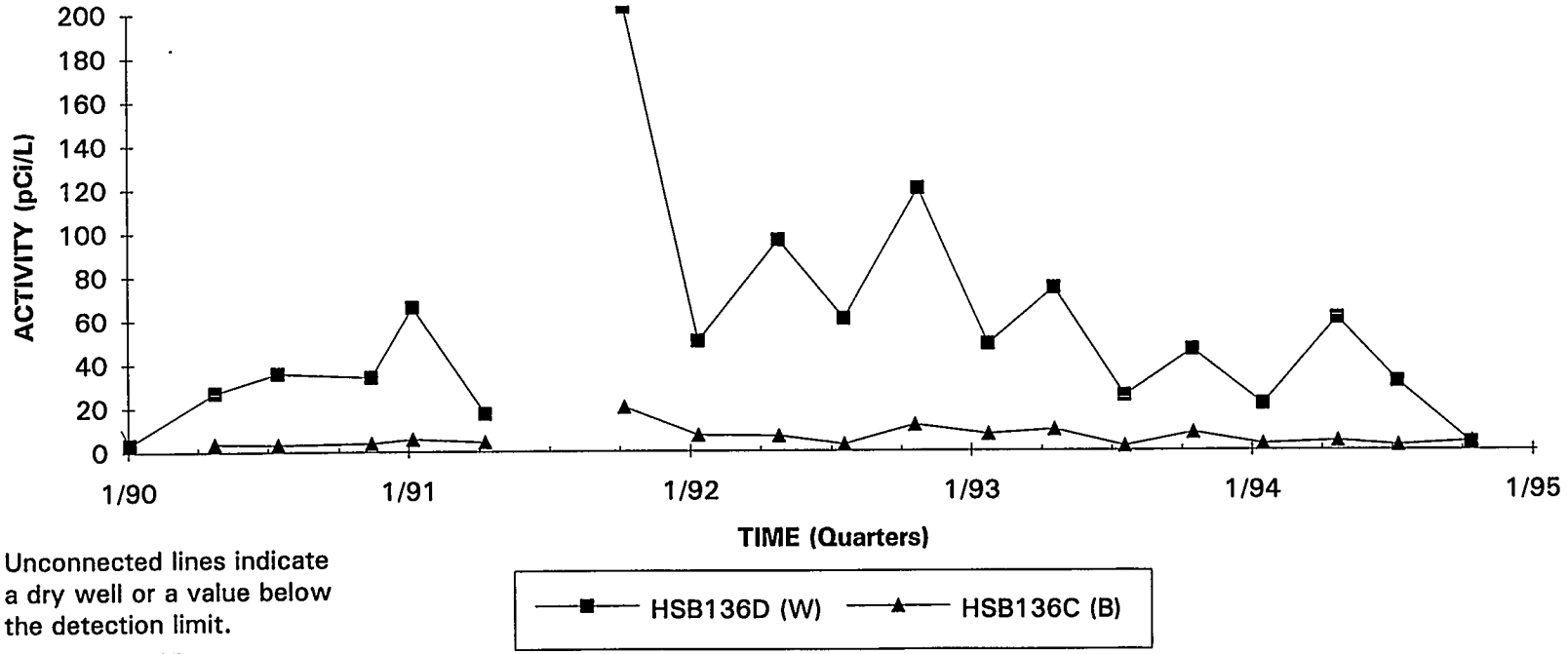


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB136

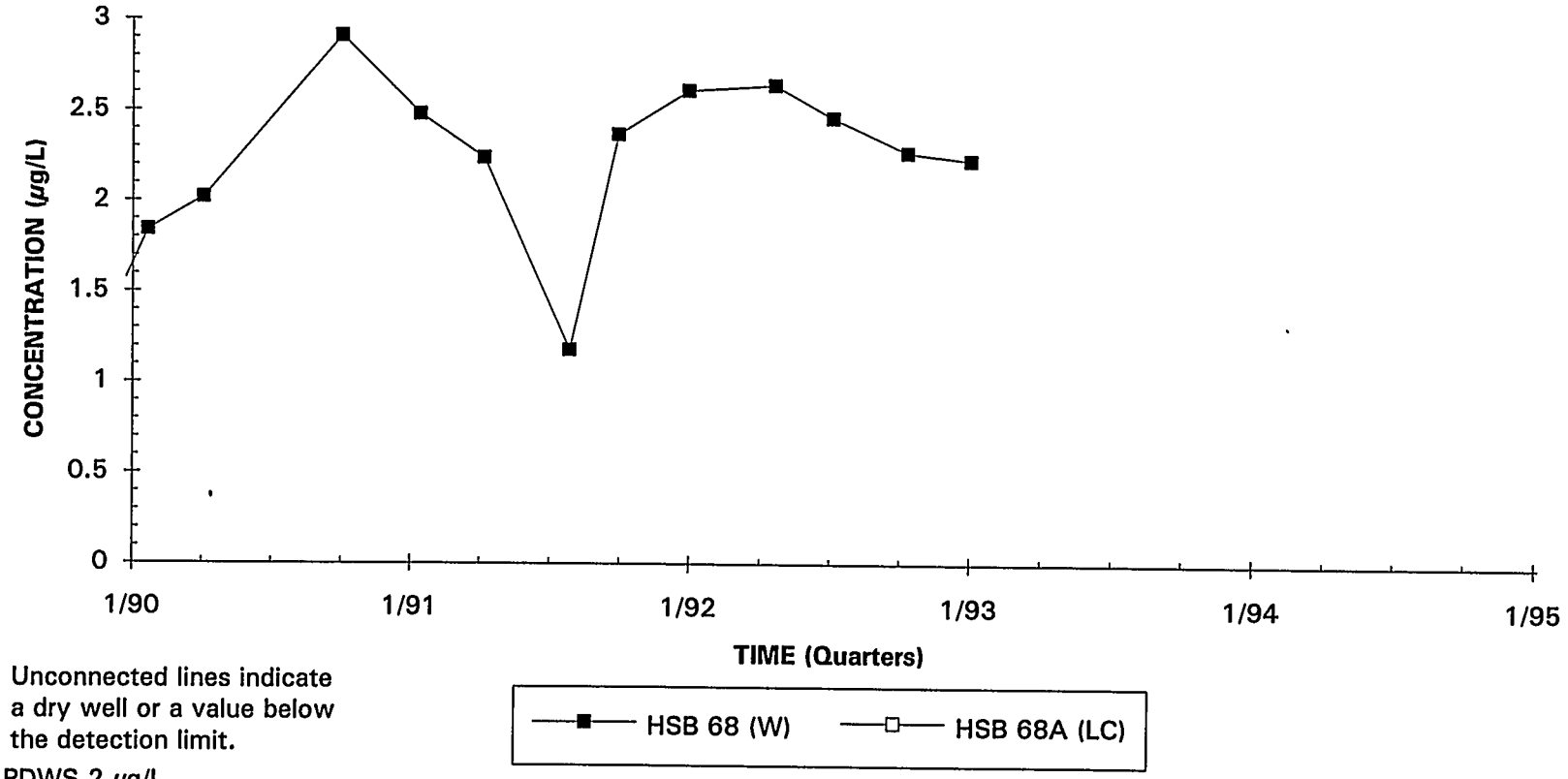


Unconnected lines indicate a dry well or a value below the detection limit.

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)

Mercury Concentrations
Well Cluster HSB 68

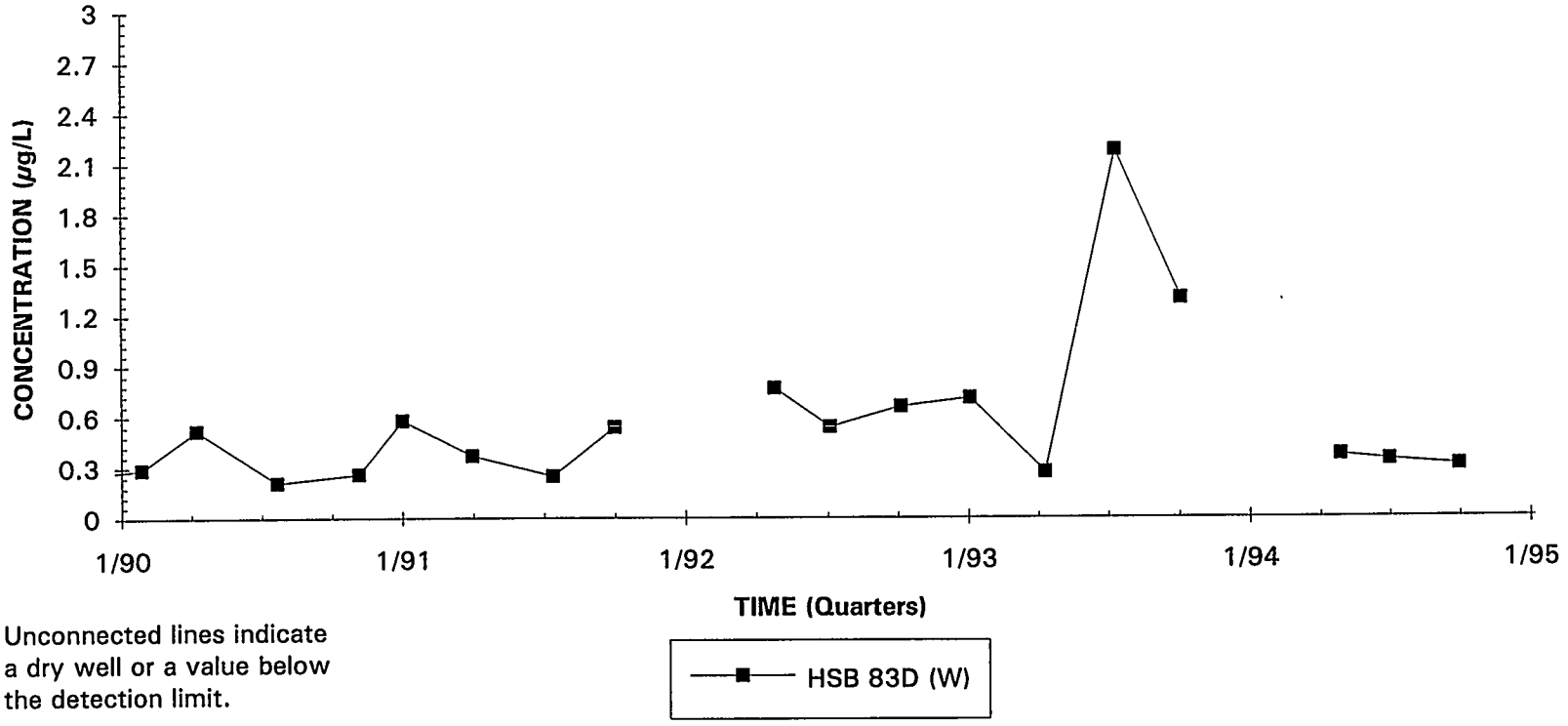


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB 83D

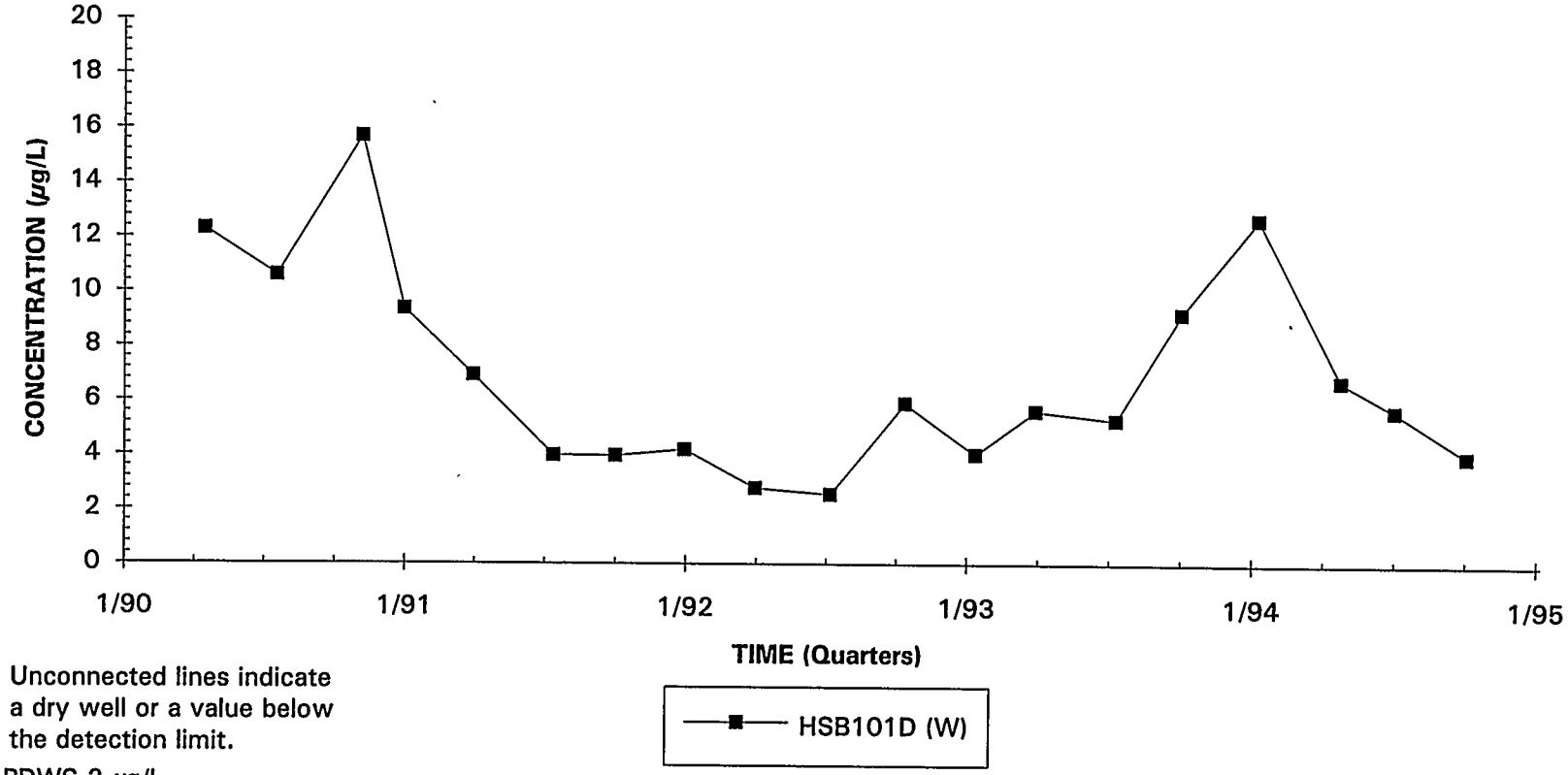


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB101D

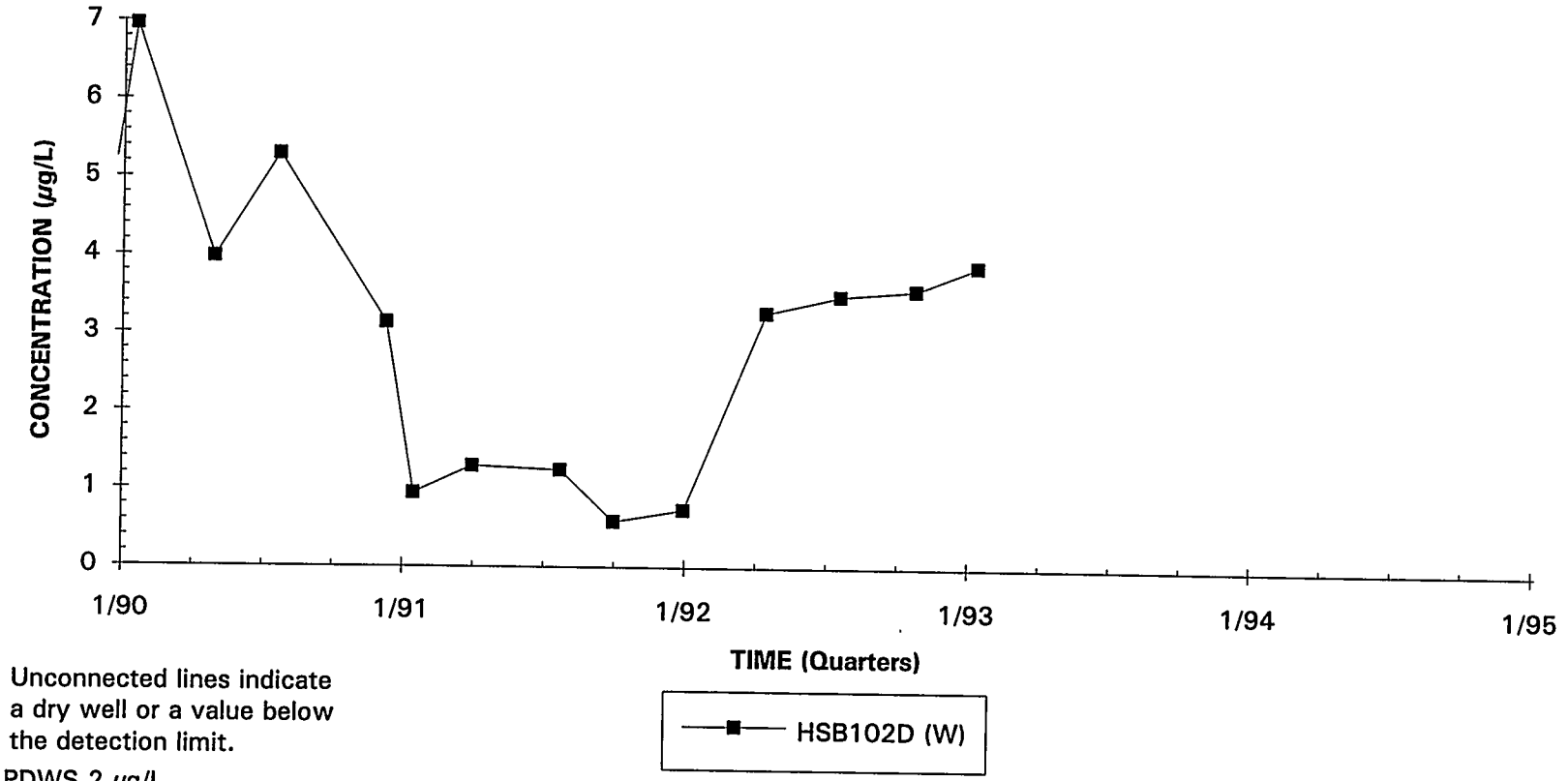


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB102D

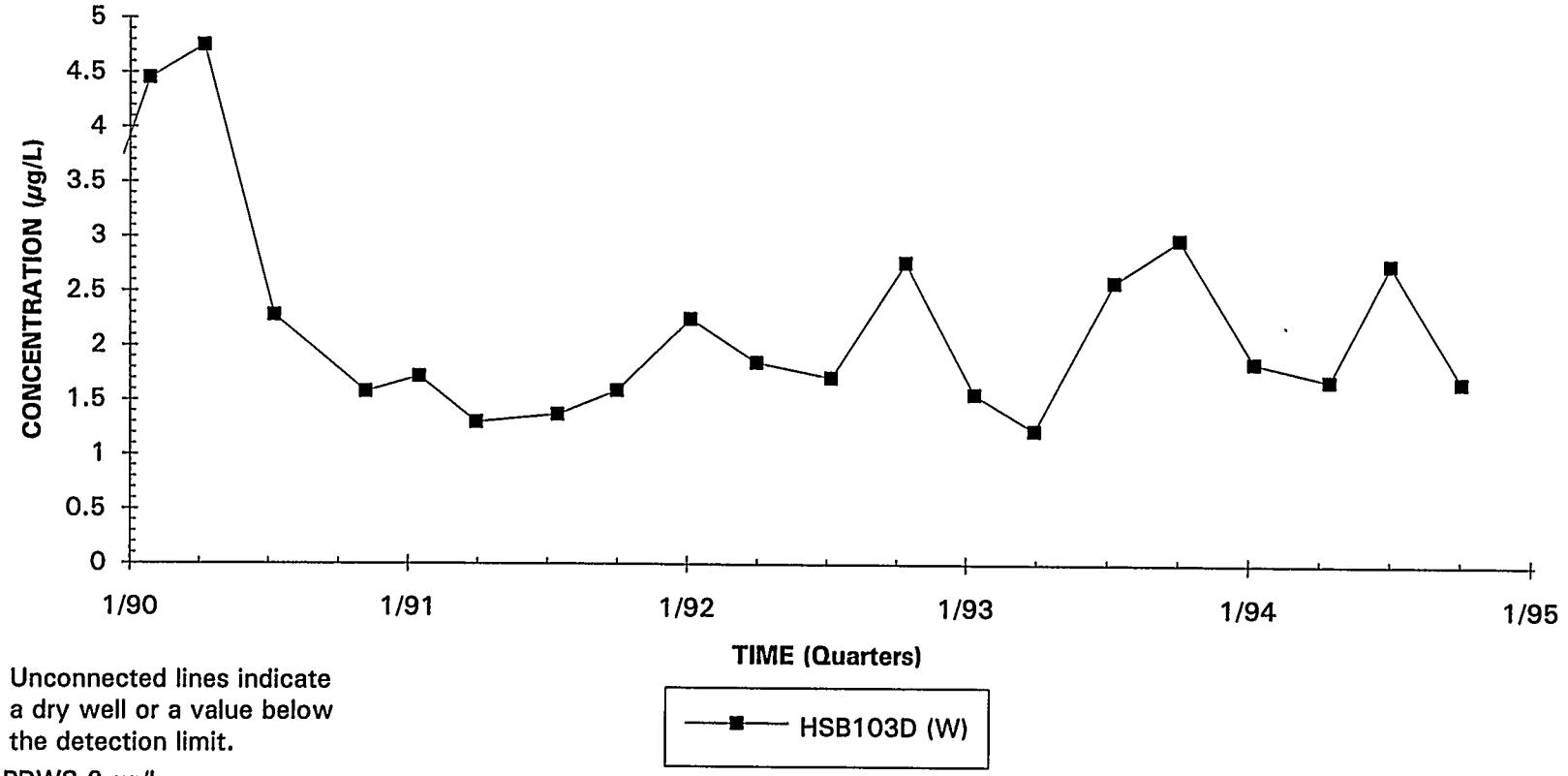


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB103D

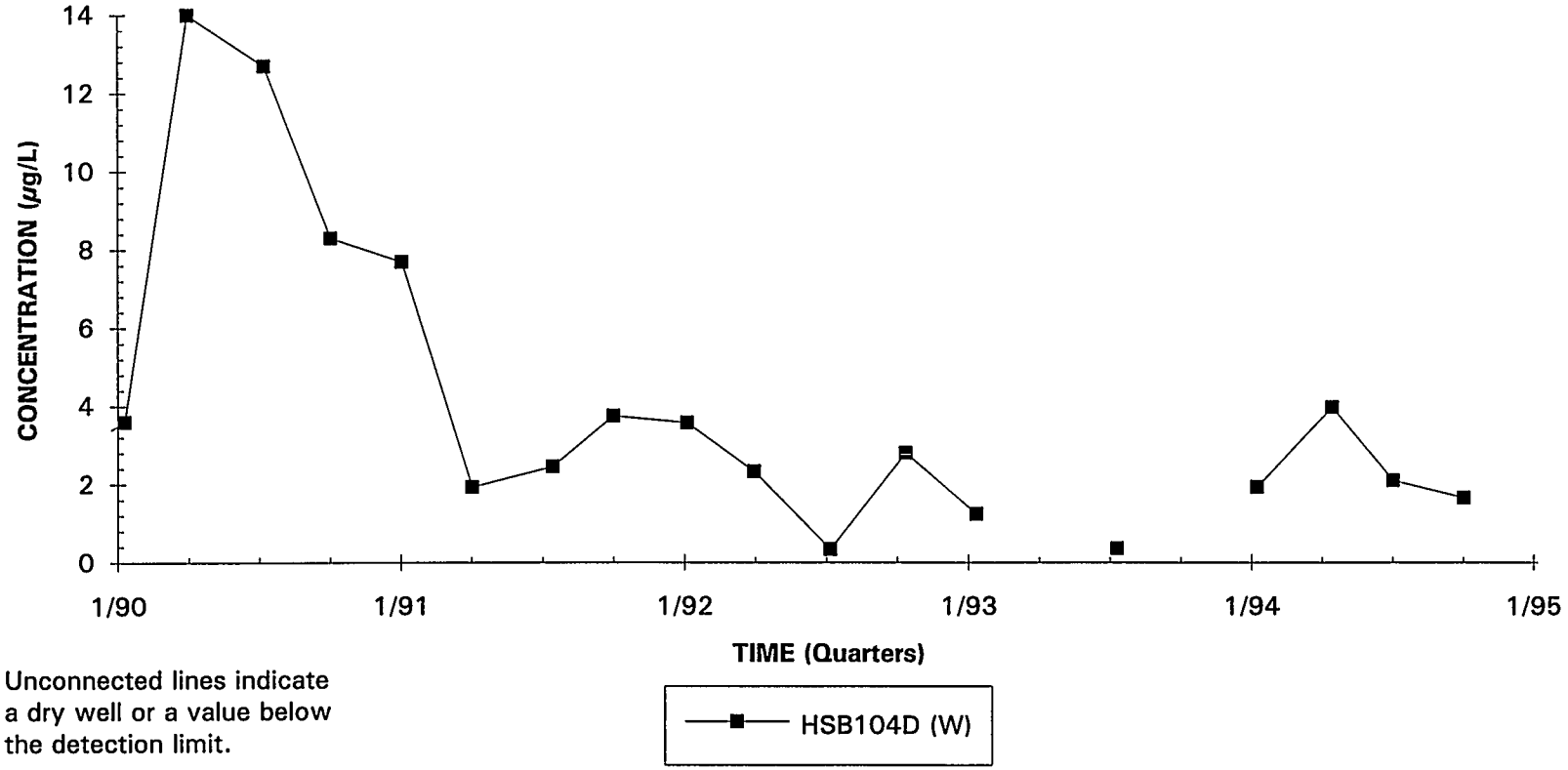


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB104D

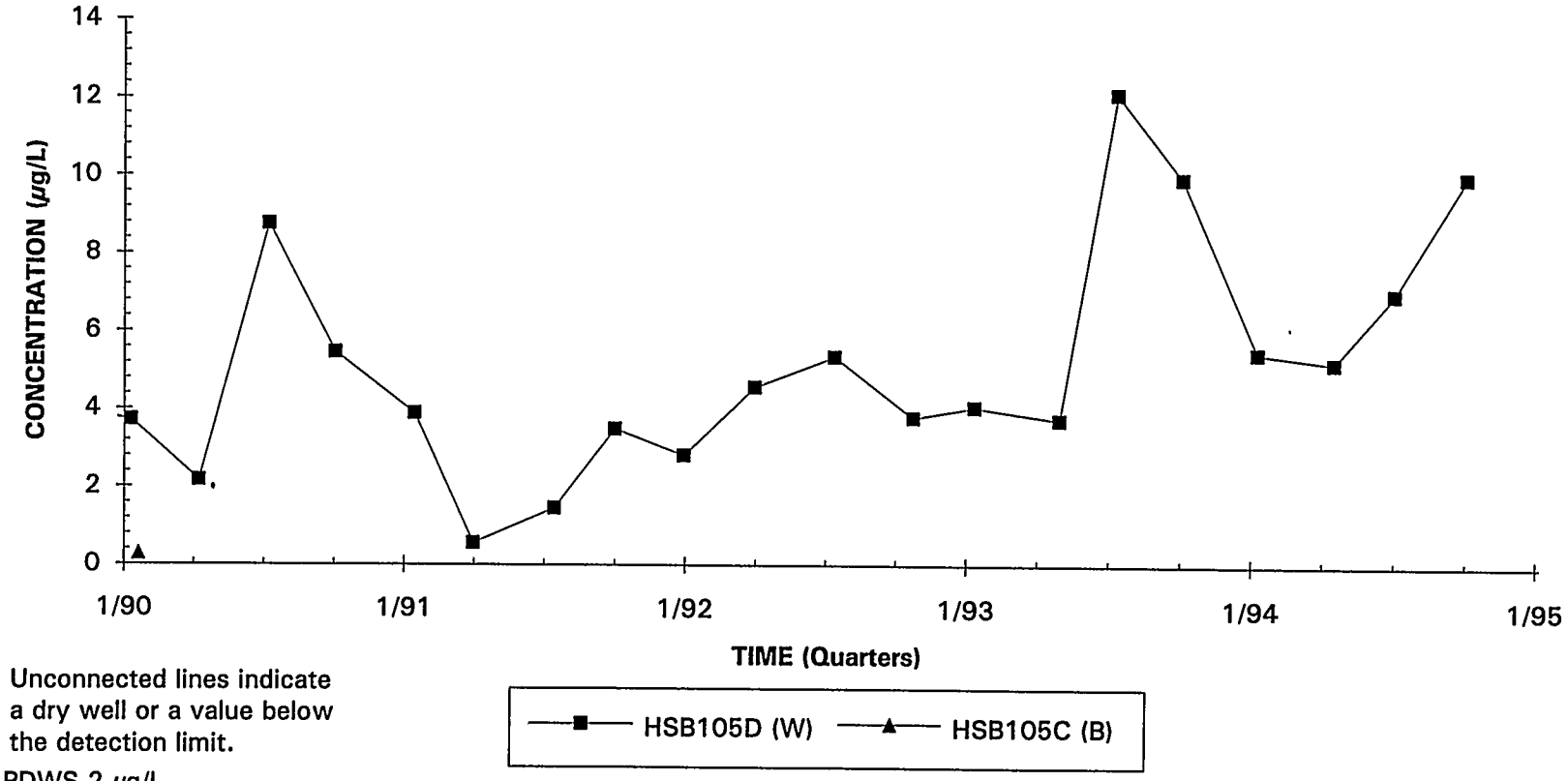


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well Cluster HSB105

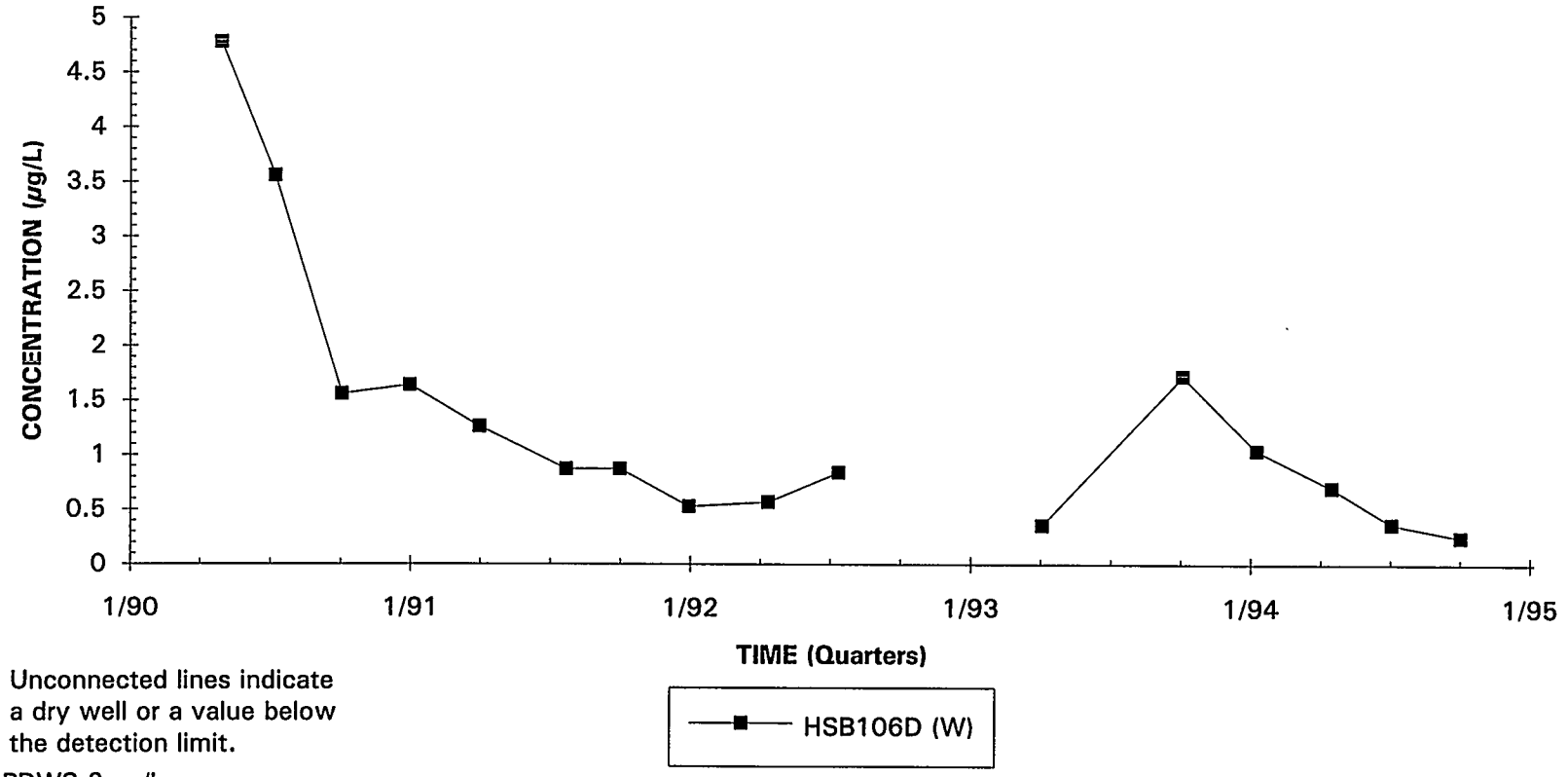


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB106D

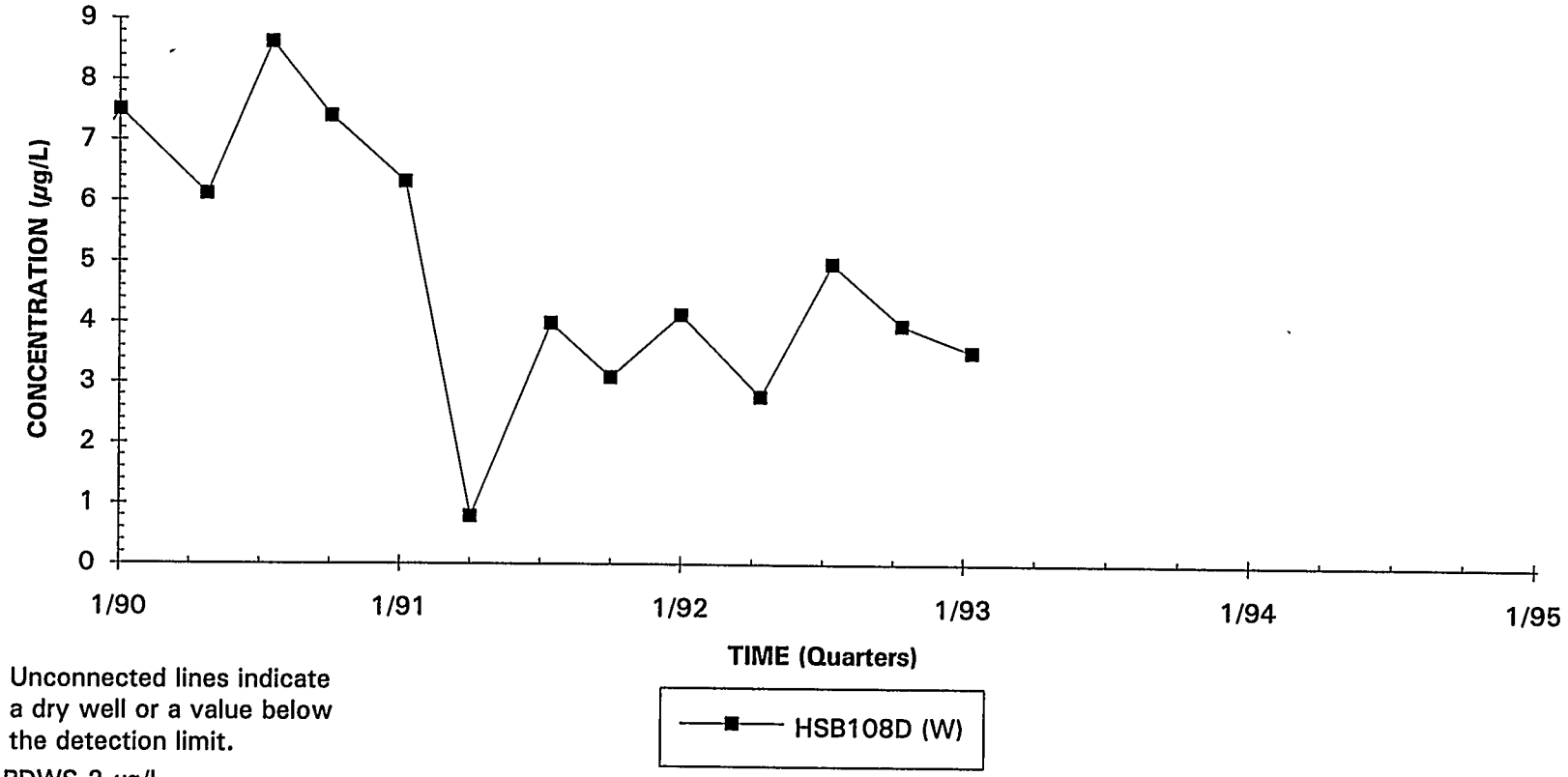


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB108D

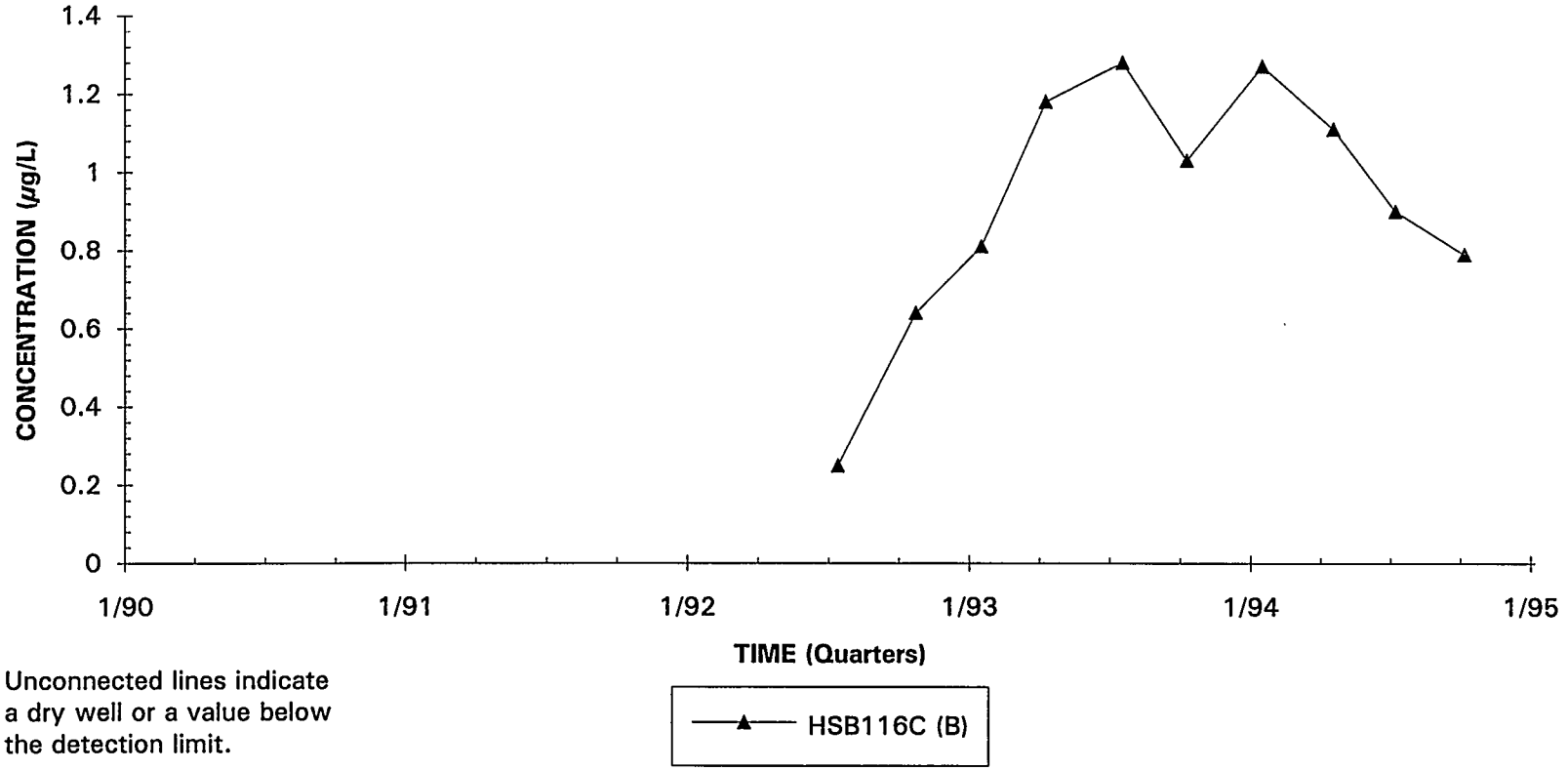


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB116C

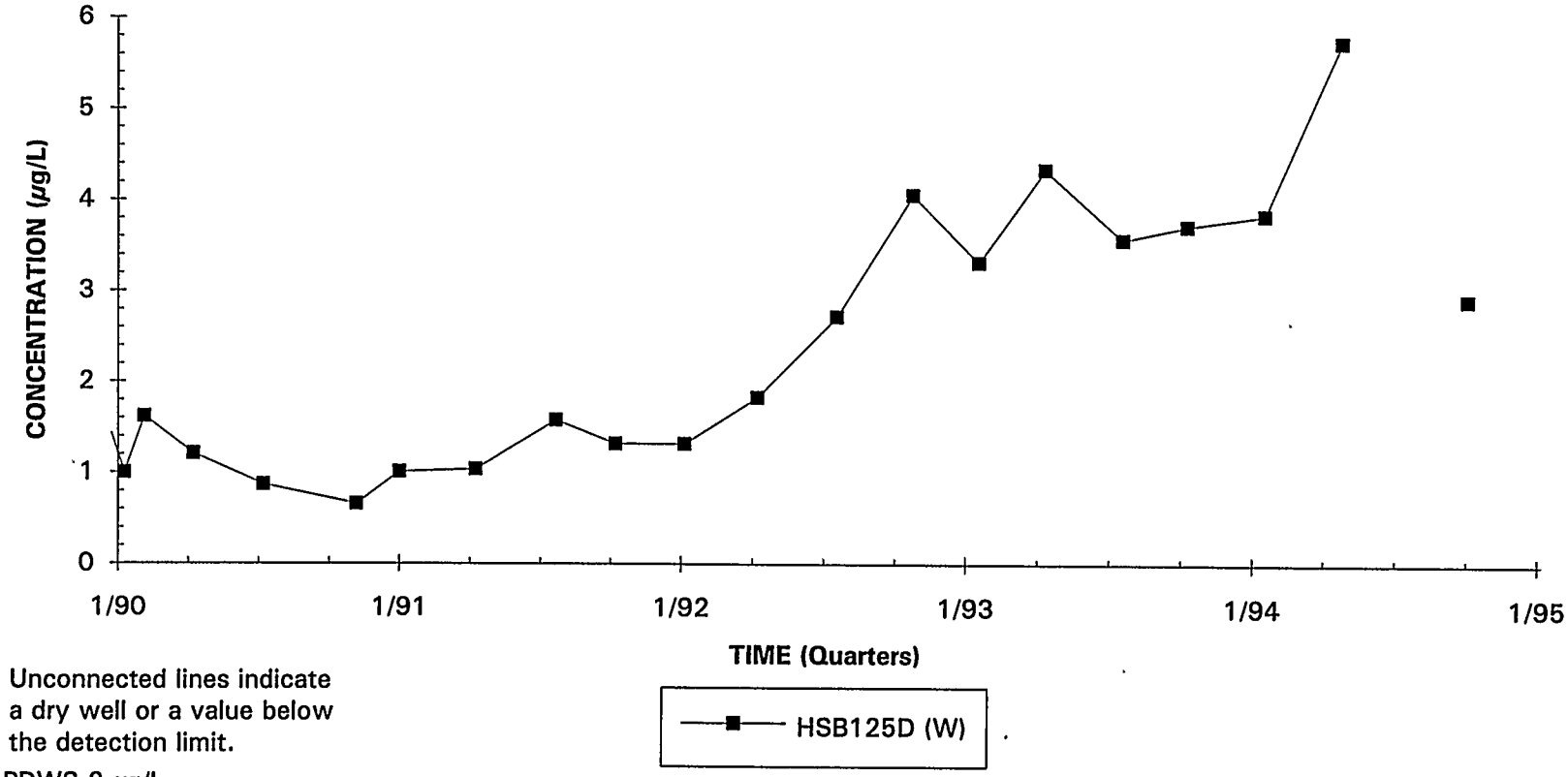


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB125D

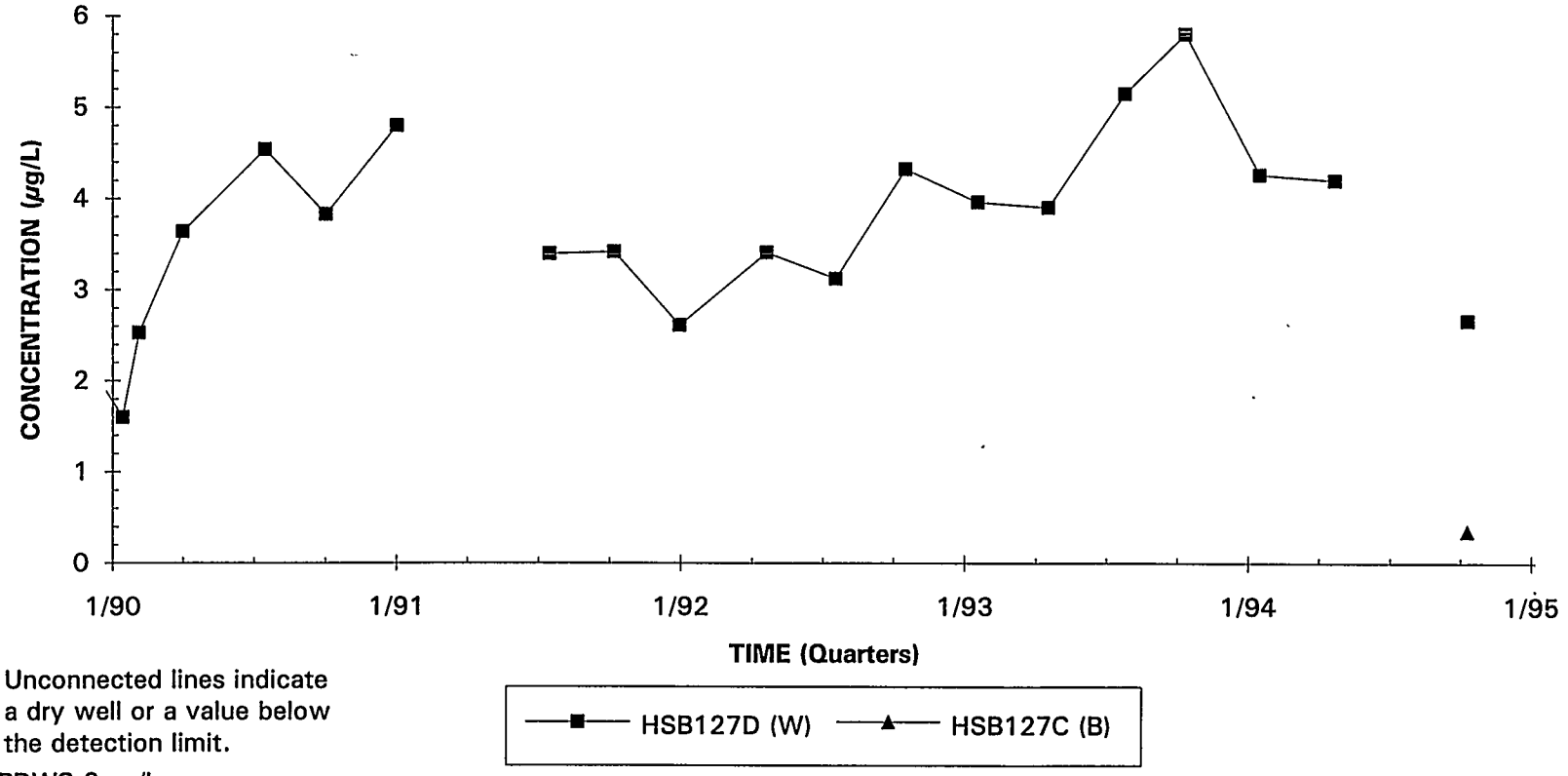


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well Cluster HSB127

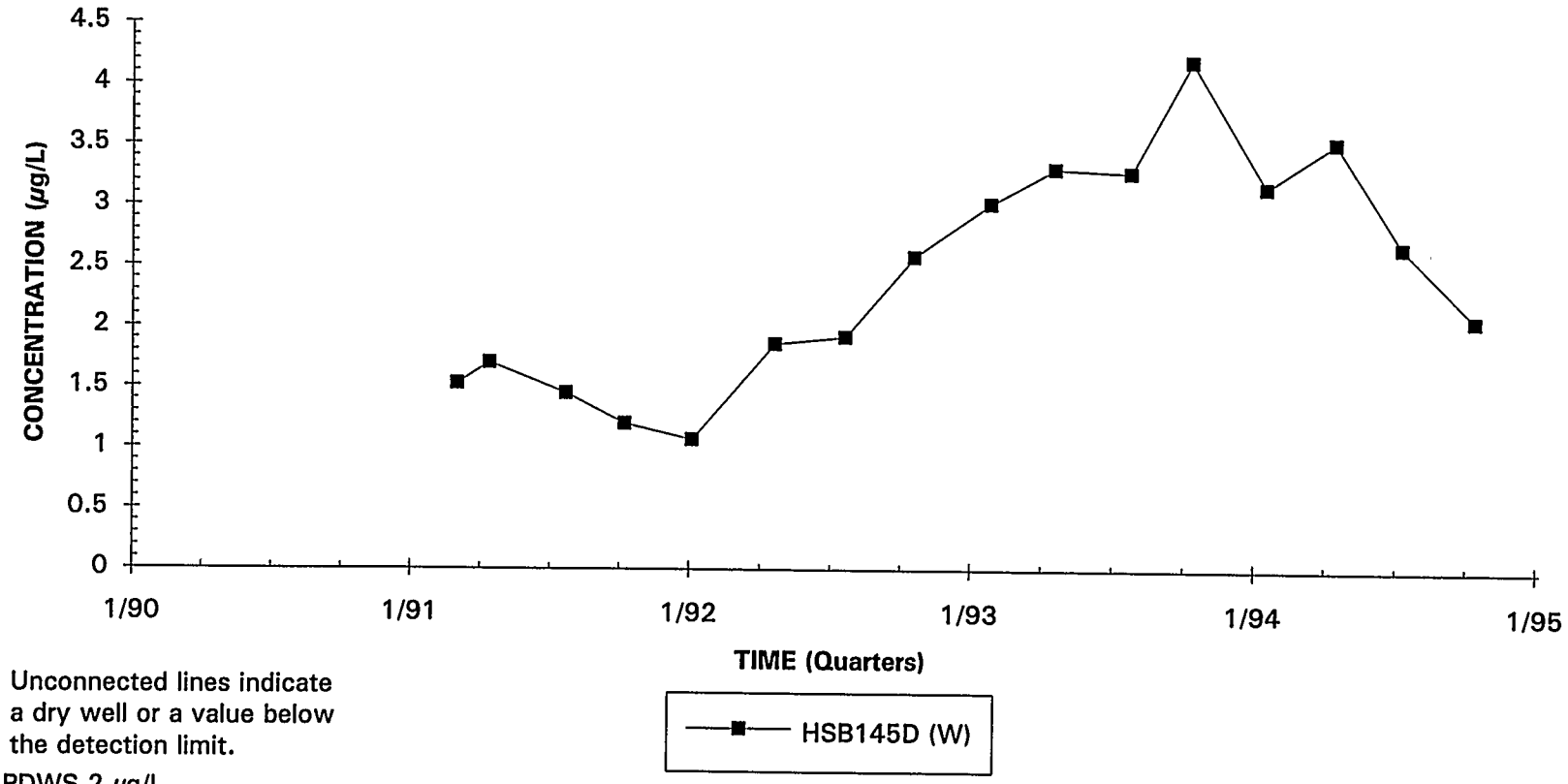


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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)

Mercury Concentrations
Well HSB145D

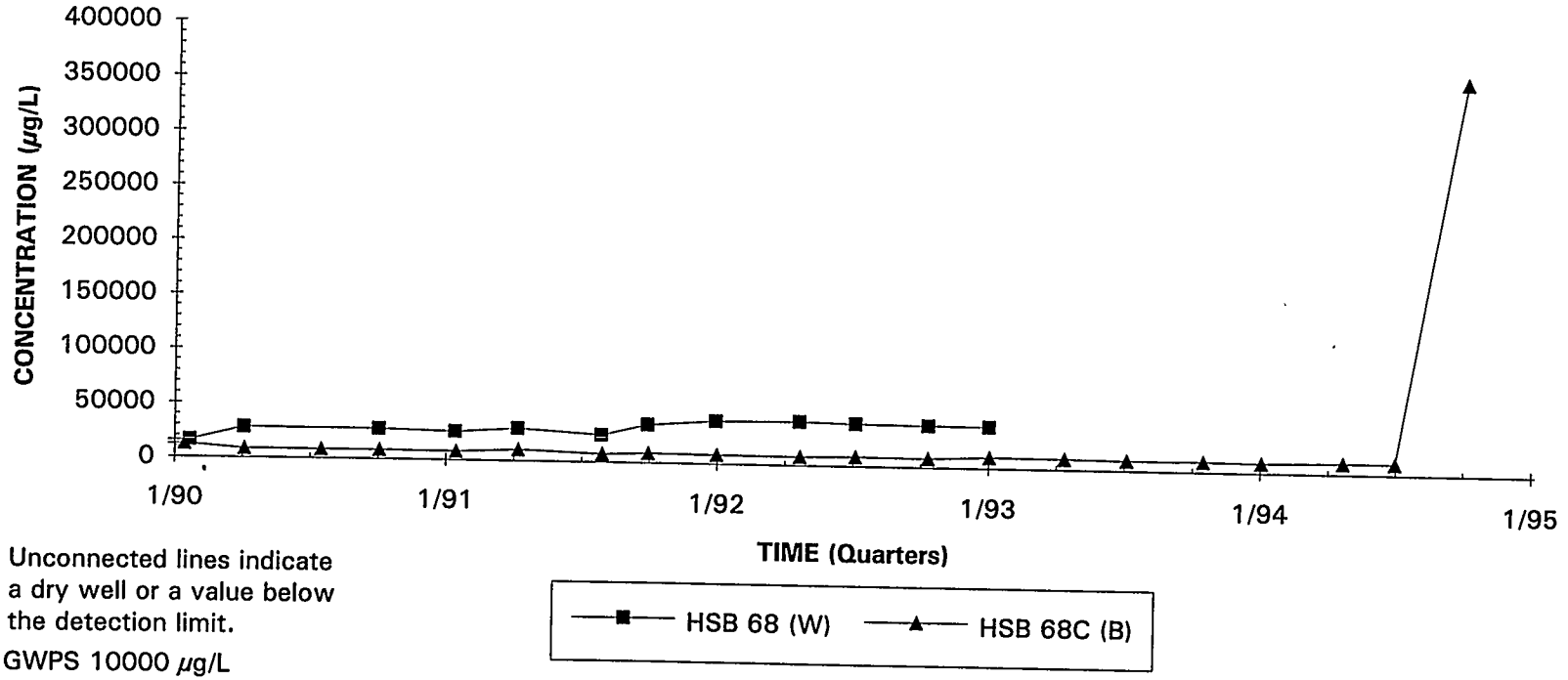


Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 2 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 Cluster HSB 68

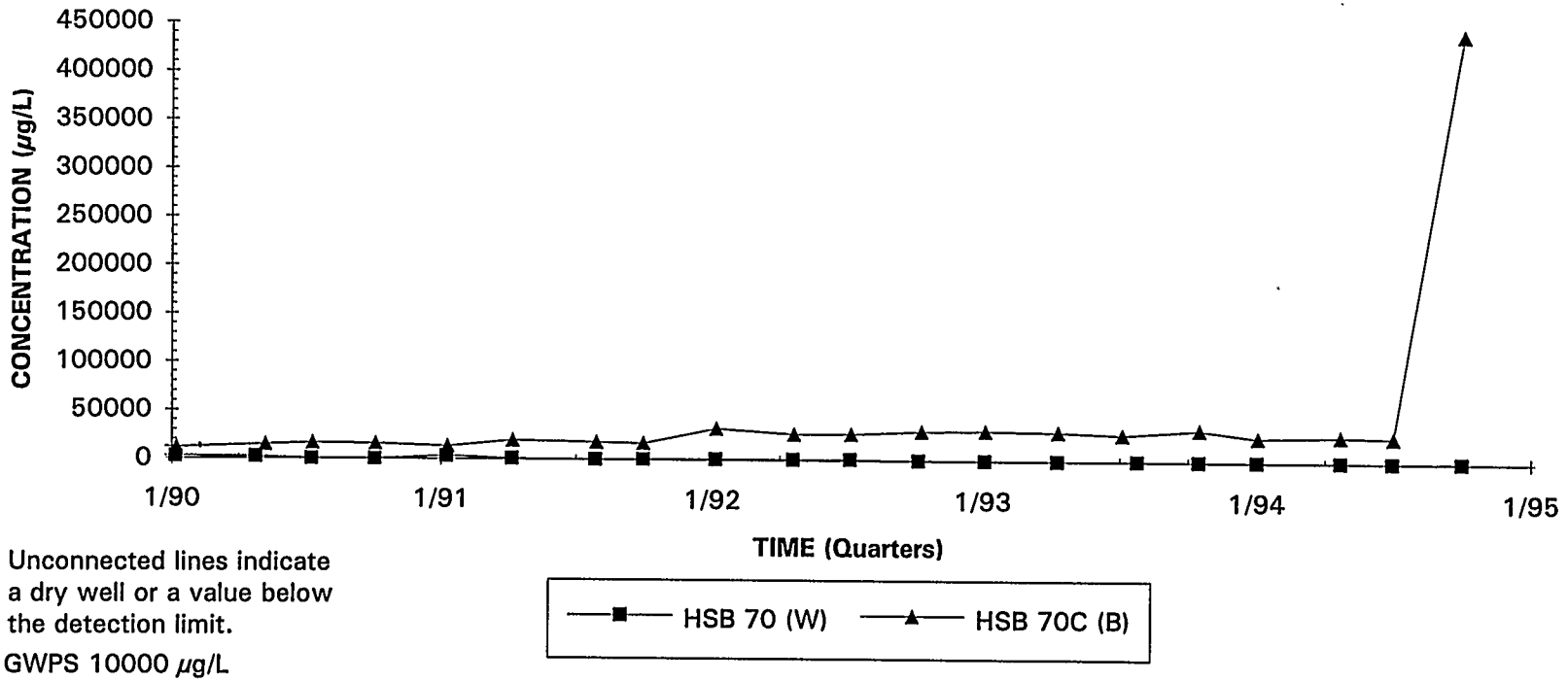


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB 70

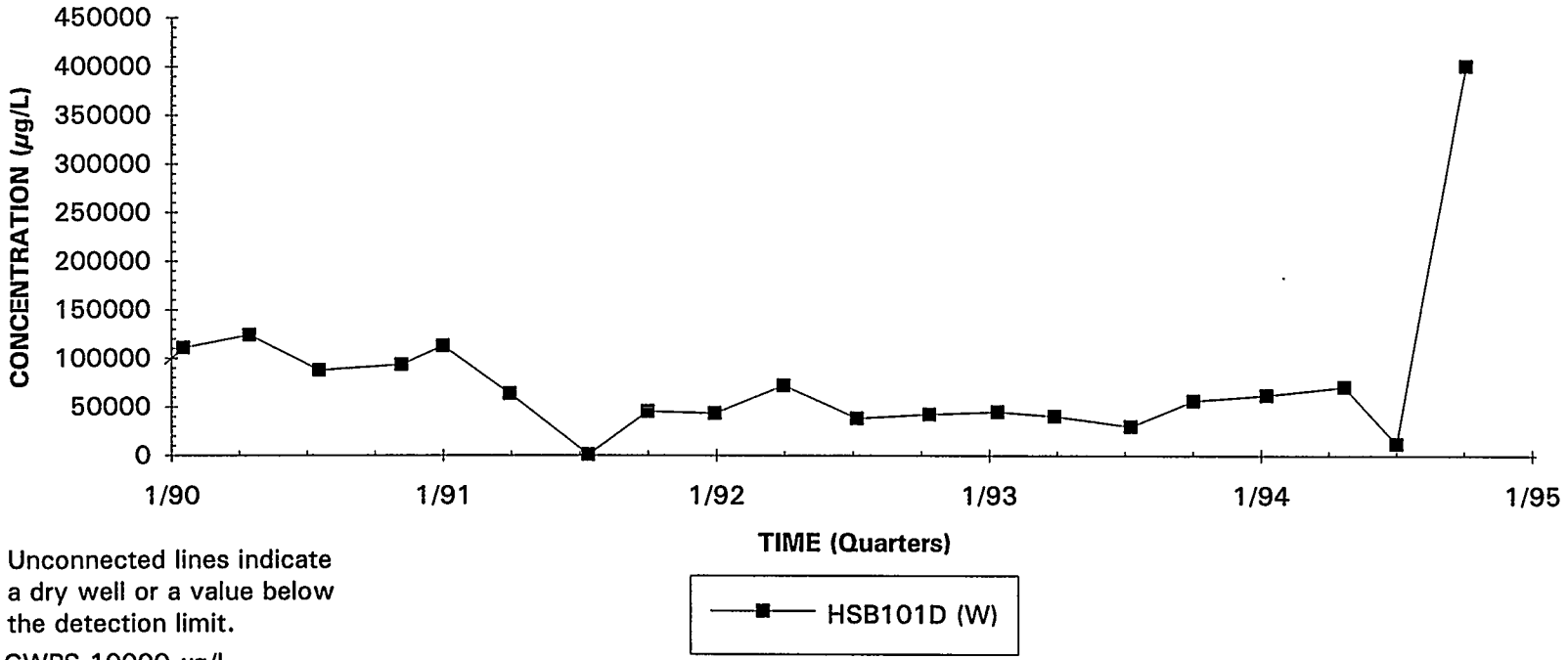


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB101D

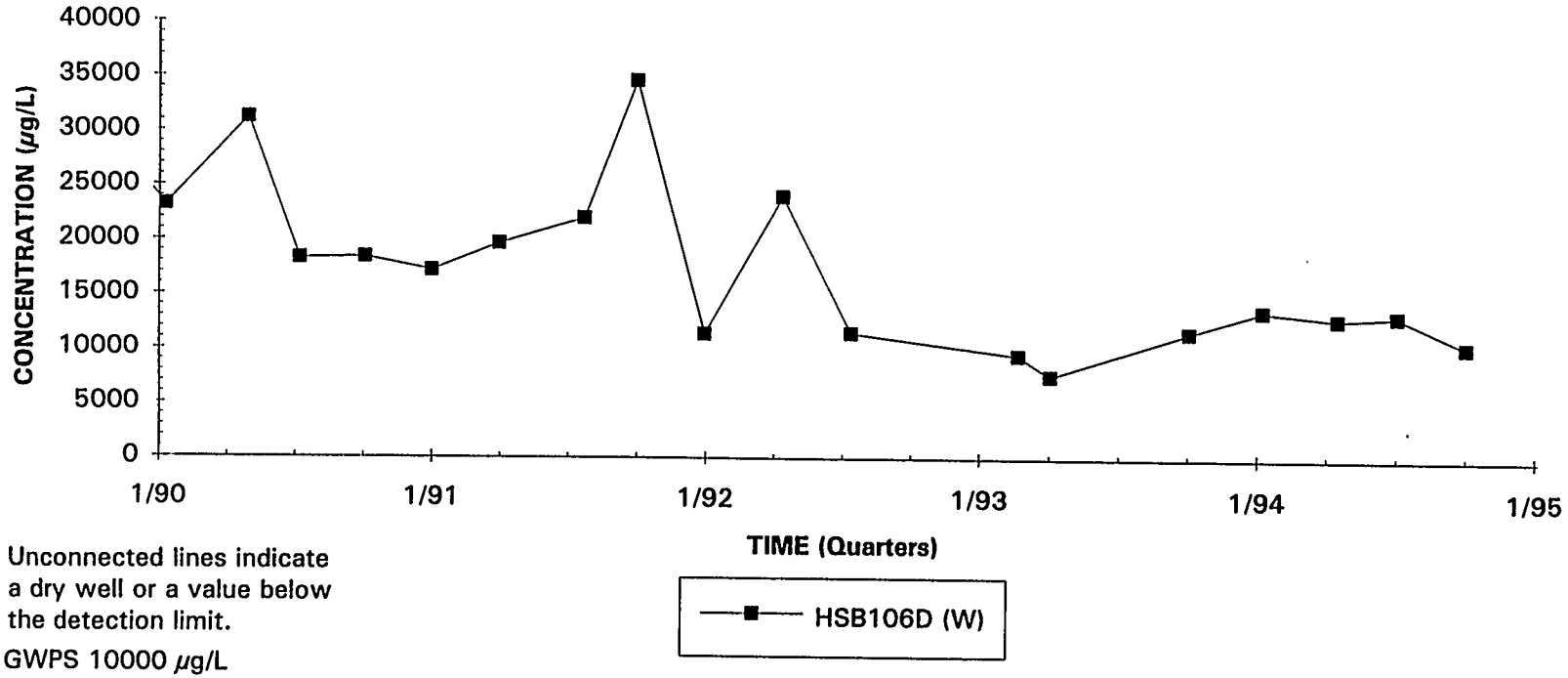


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB106D

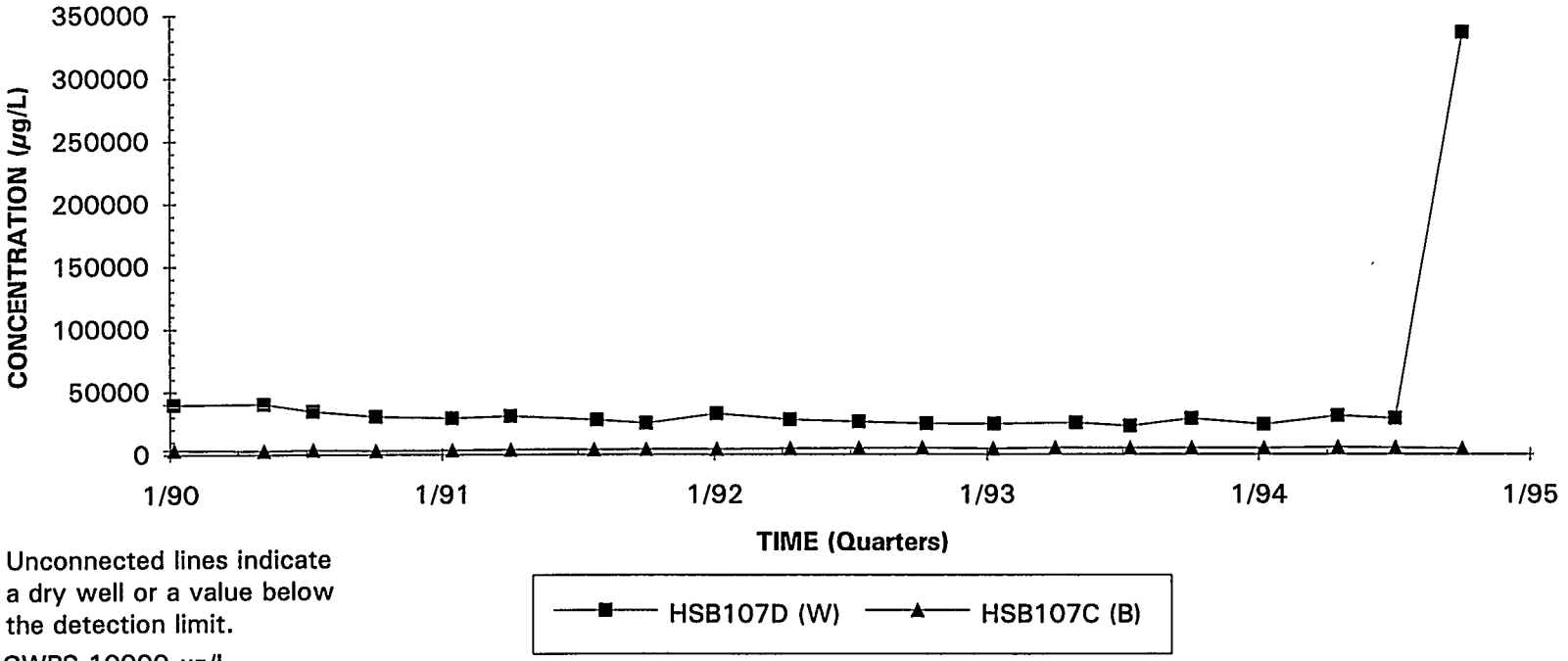


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB107

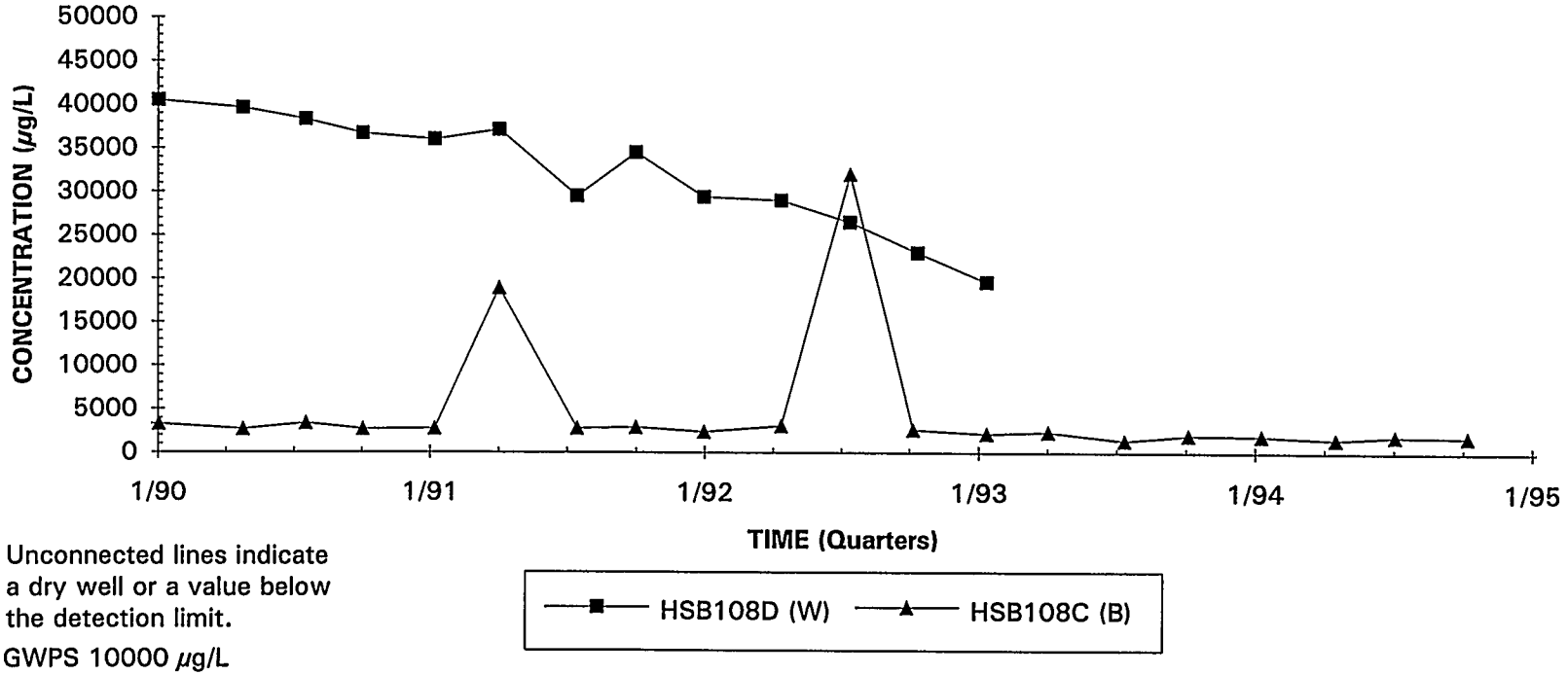


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB108

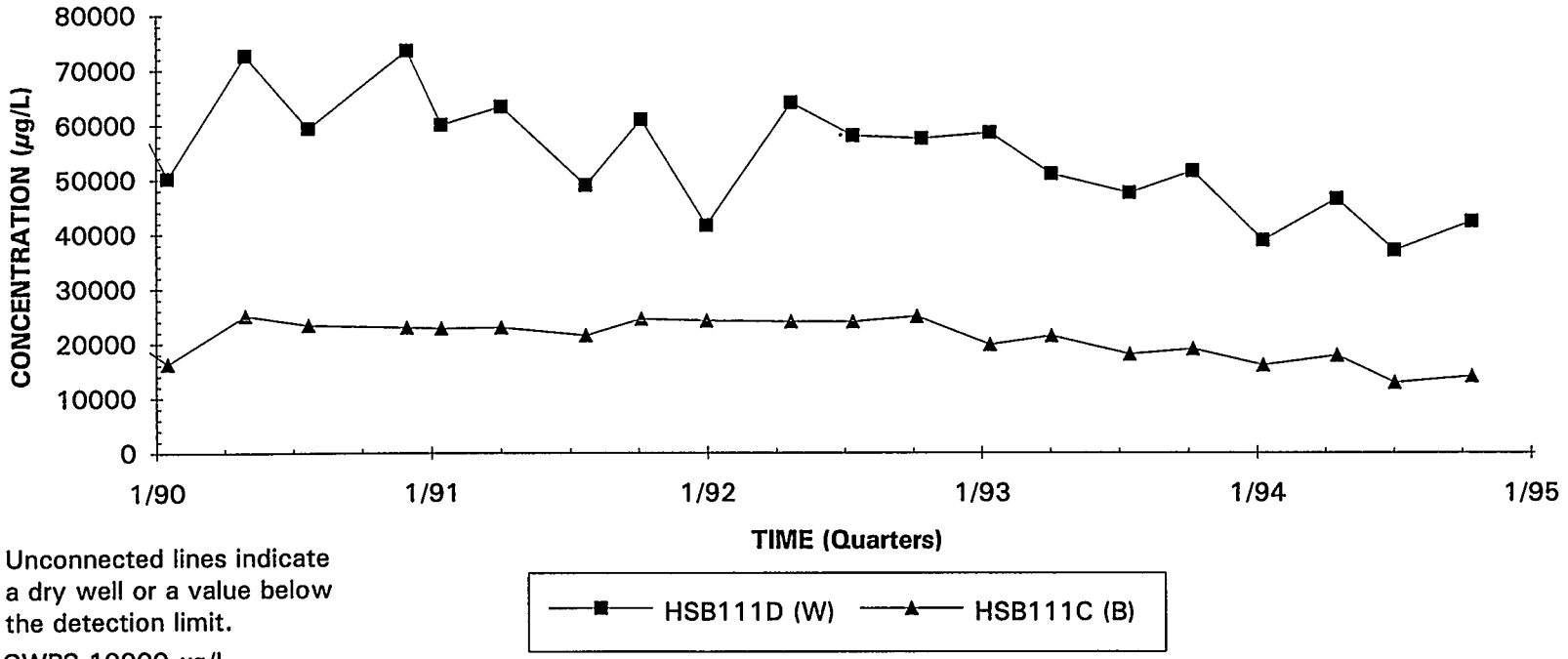


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB111

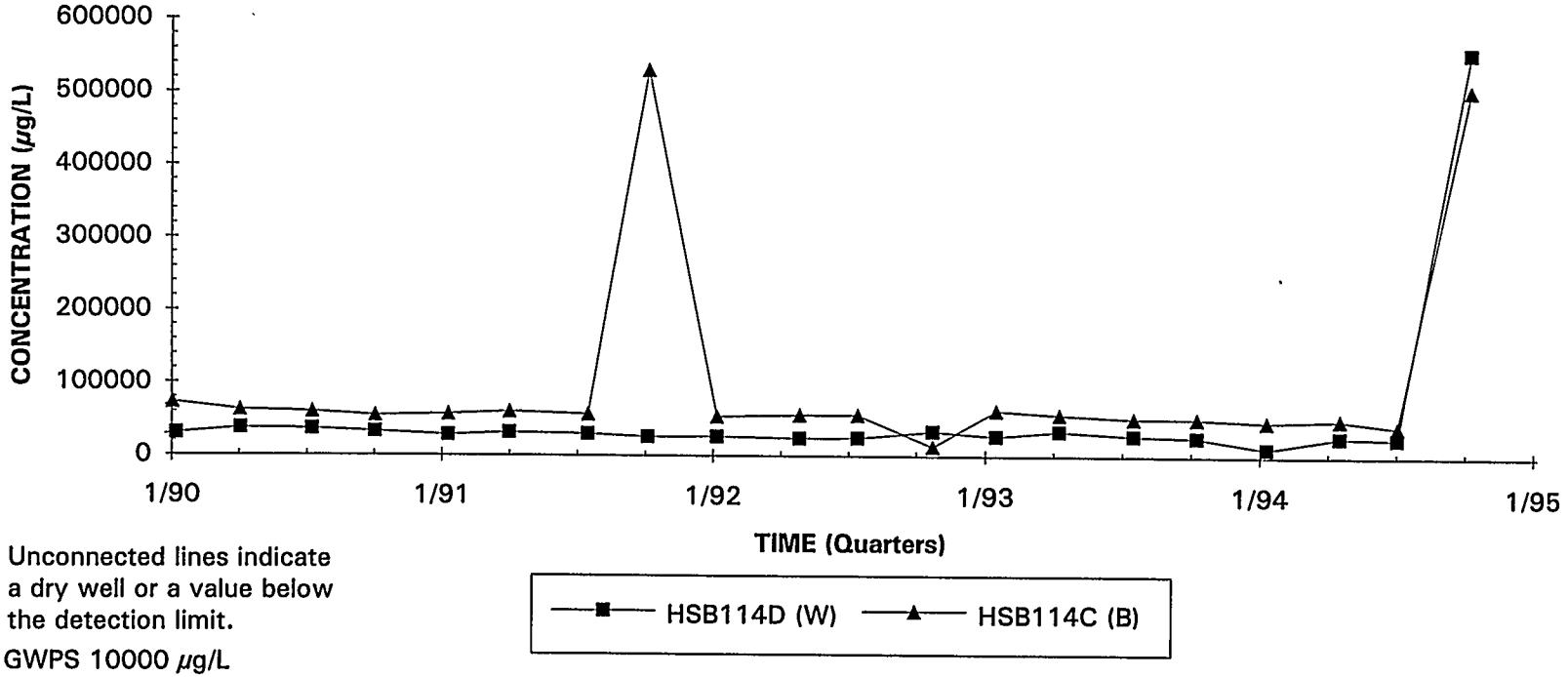


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB114

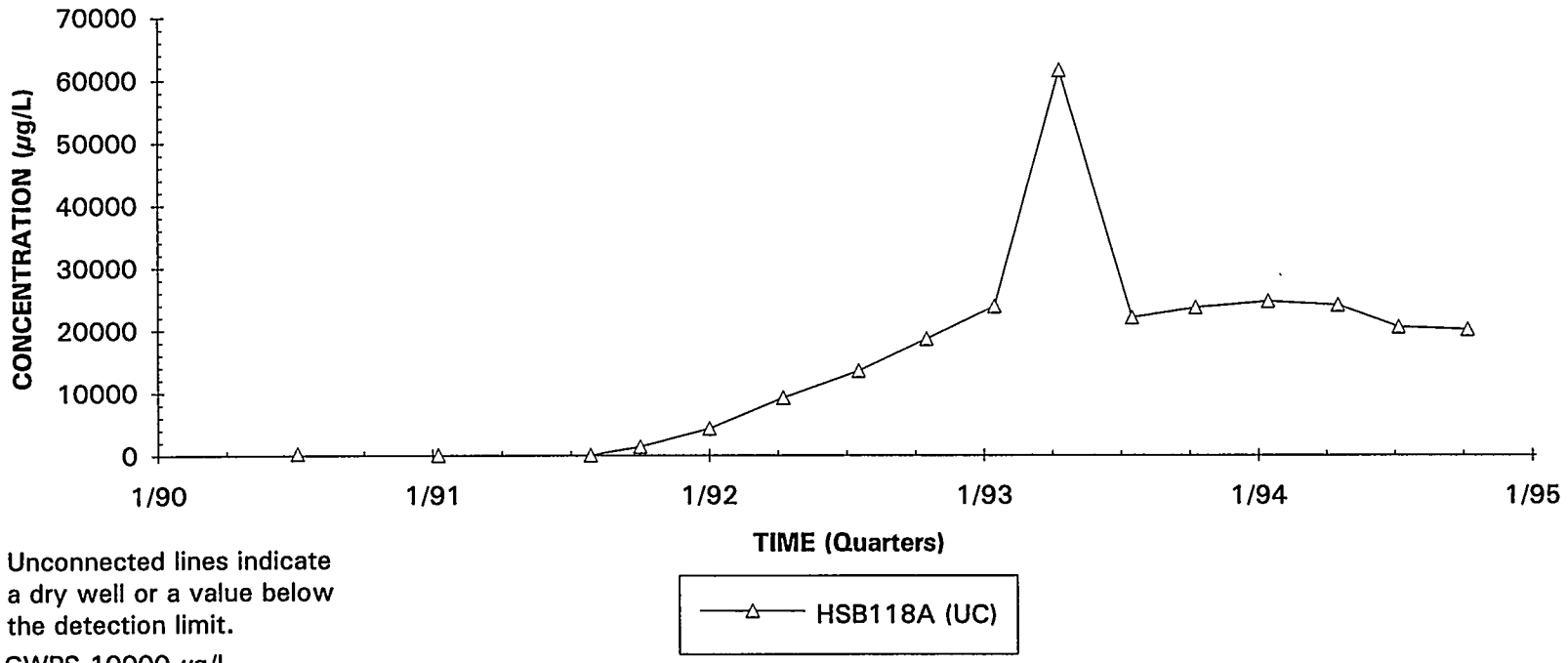


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB118A

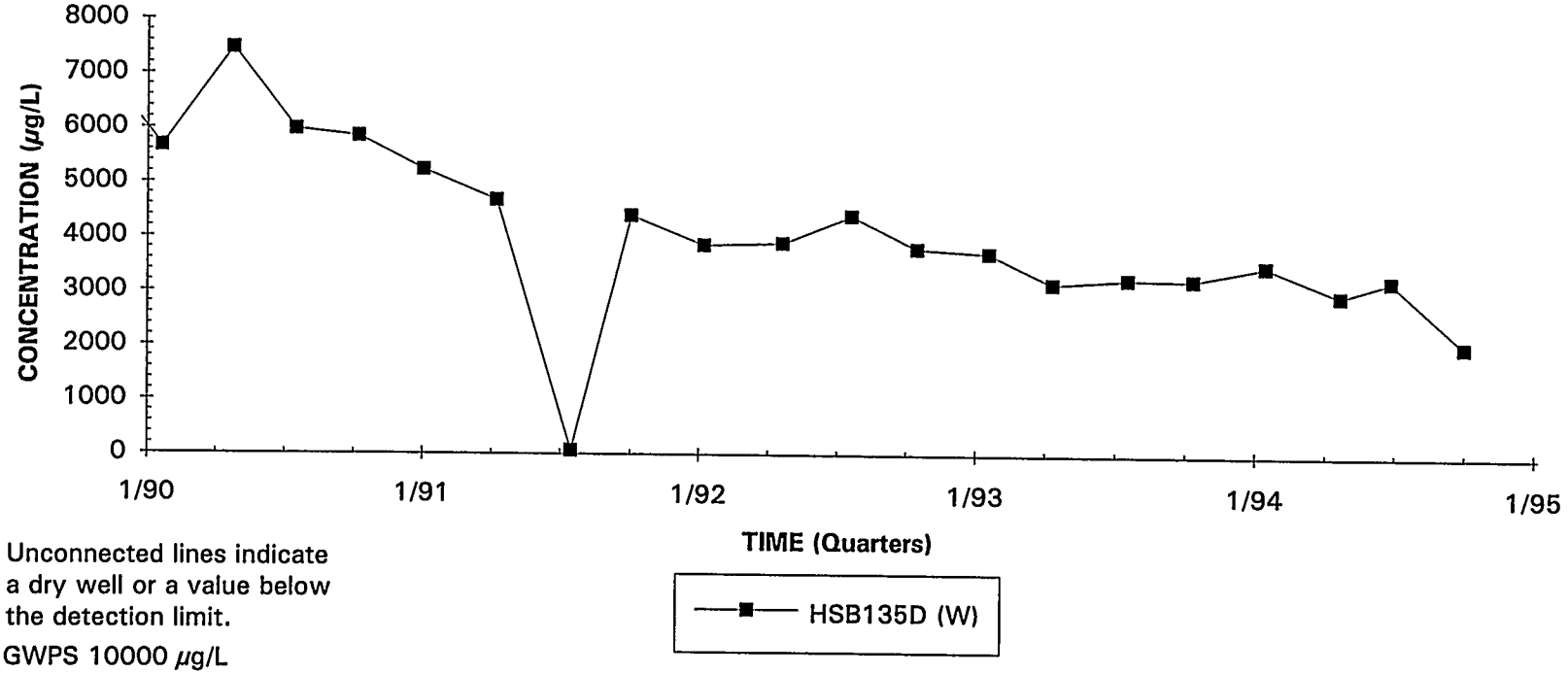


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB135D

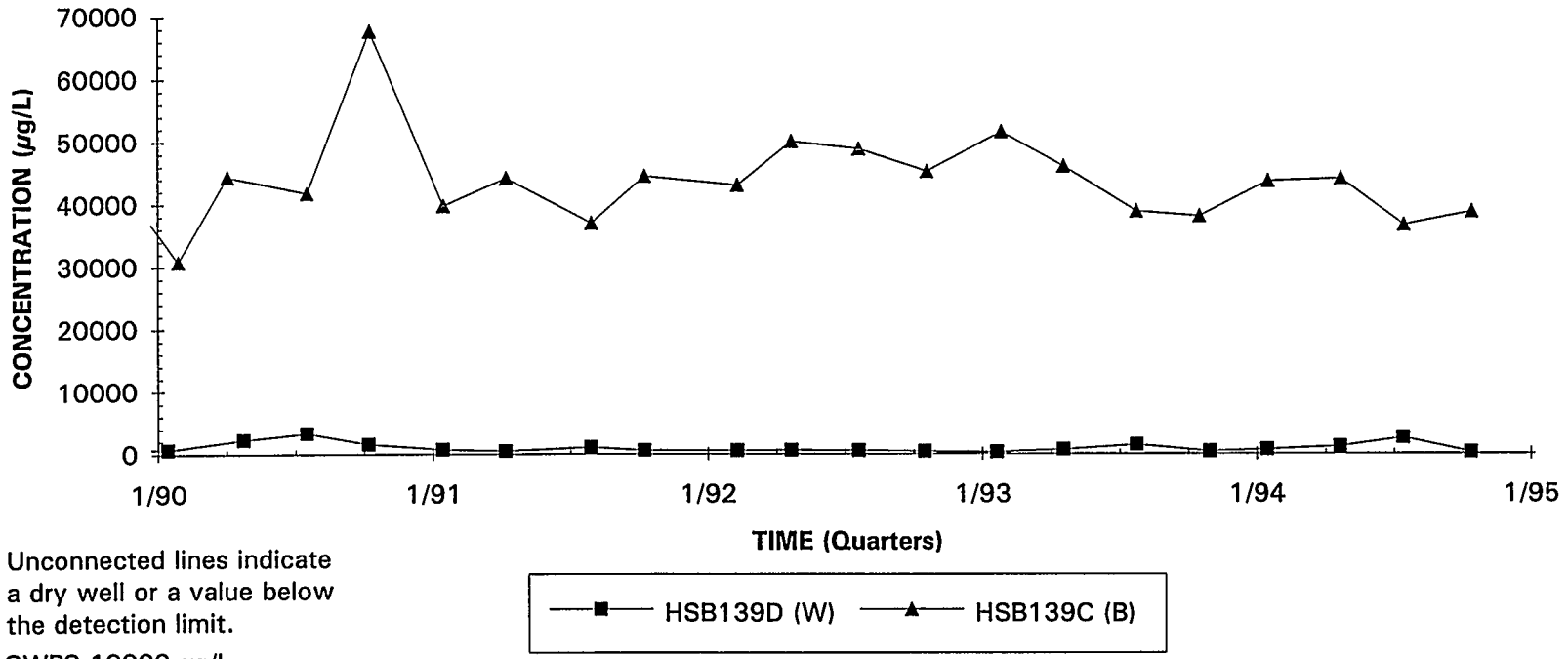


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB139

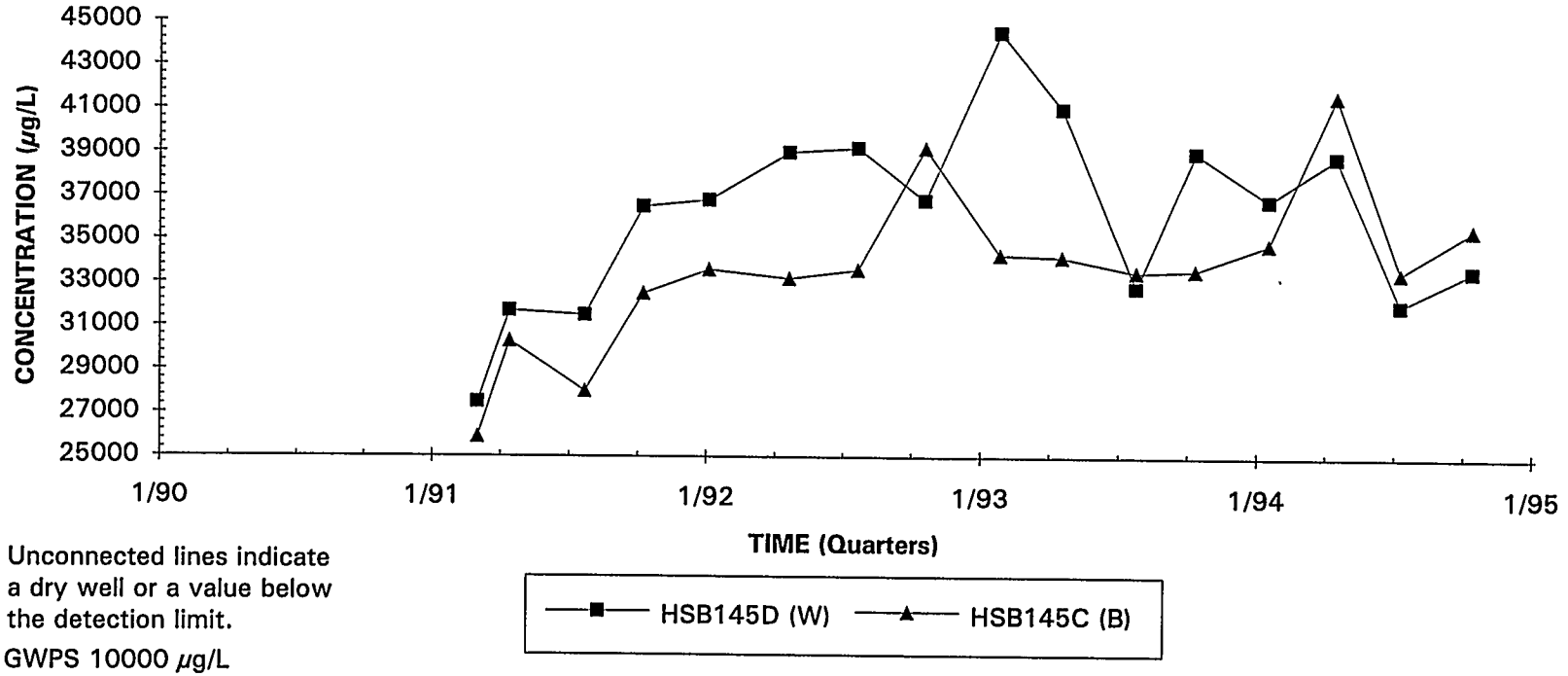


Unconnected lines indicate a dry well or a value below the detection limit.

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 Cluster HSB145

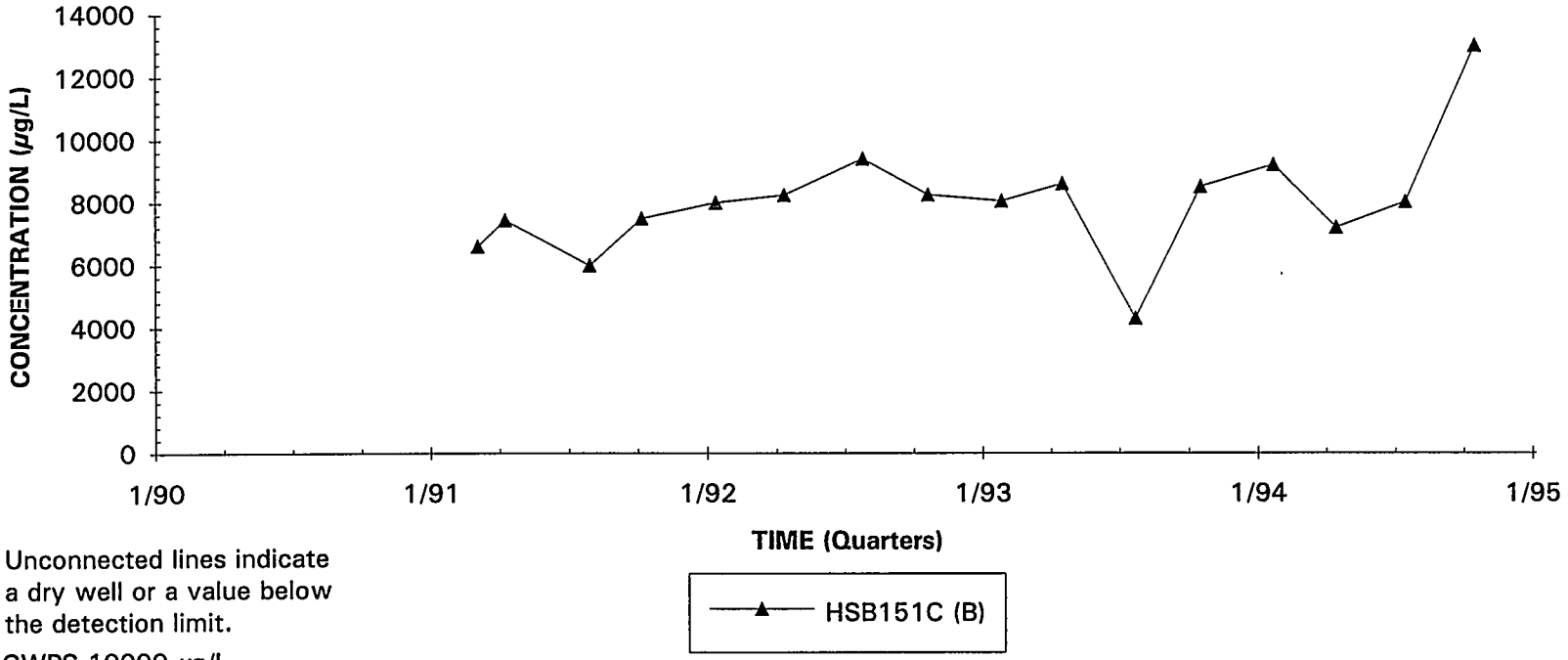


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB151C

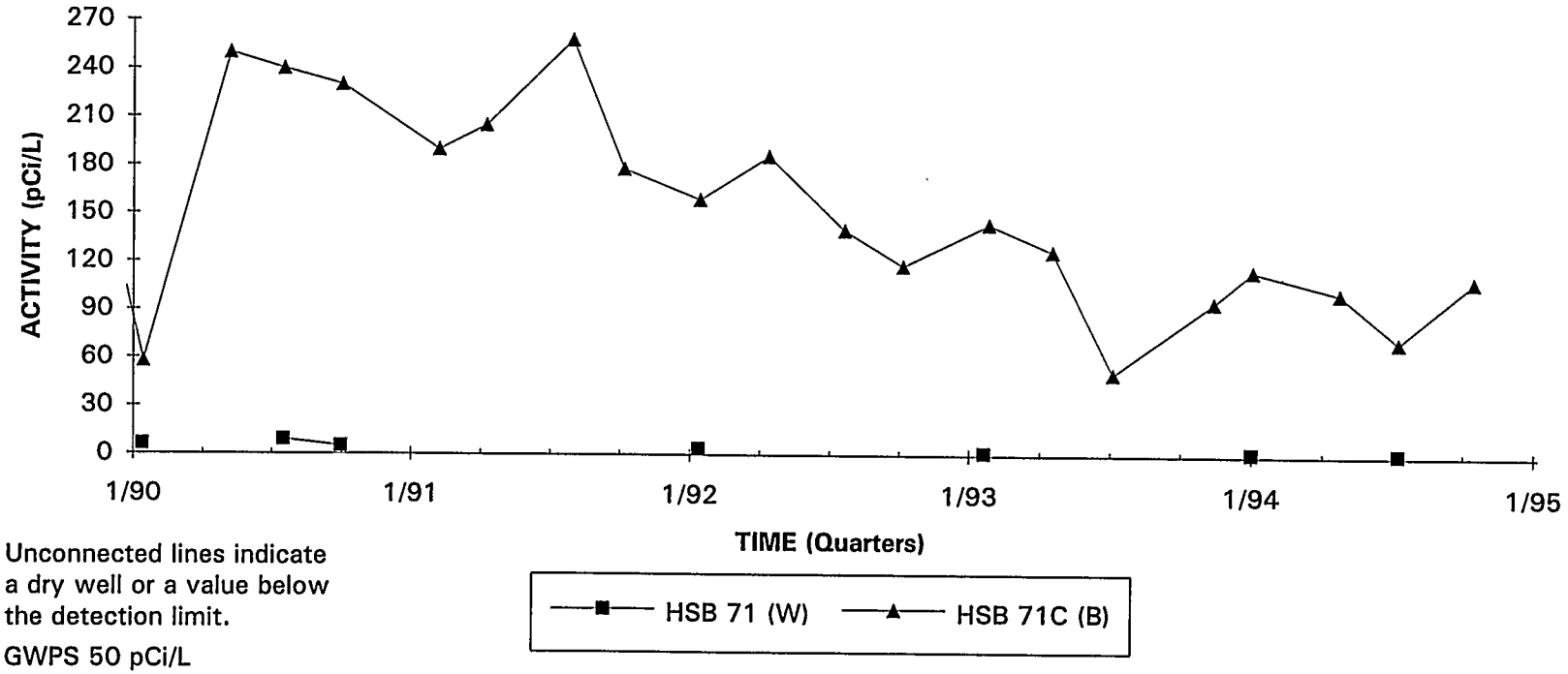


Unconnected lines indicate a dry well or a value below the detection limit.

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)

Nonvolatile Beta Activities
Well Cluster HSB 71

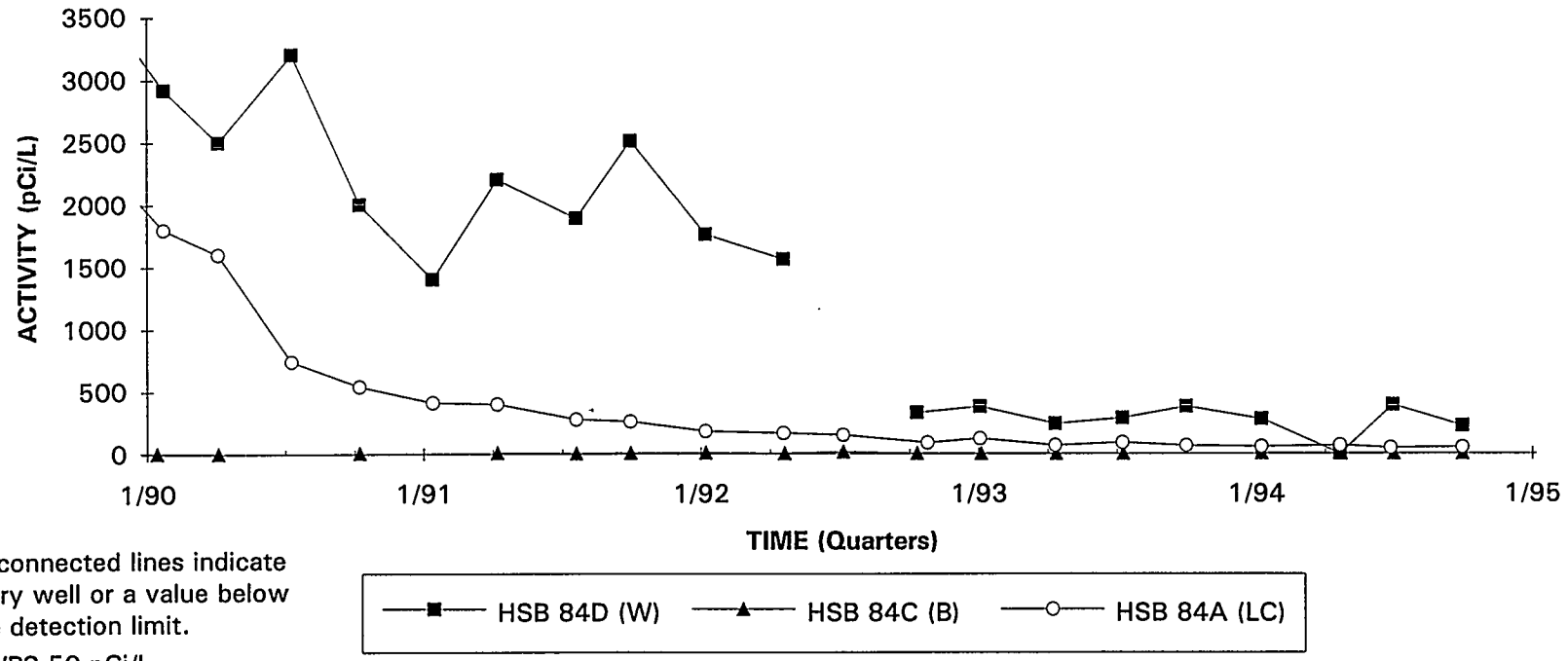


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB 84

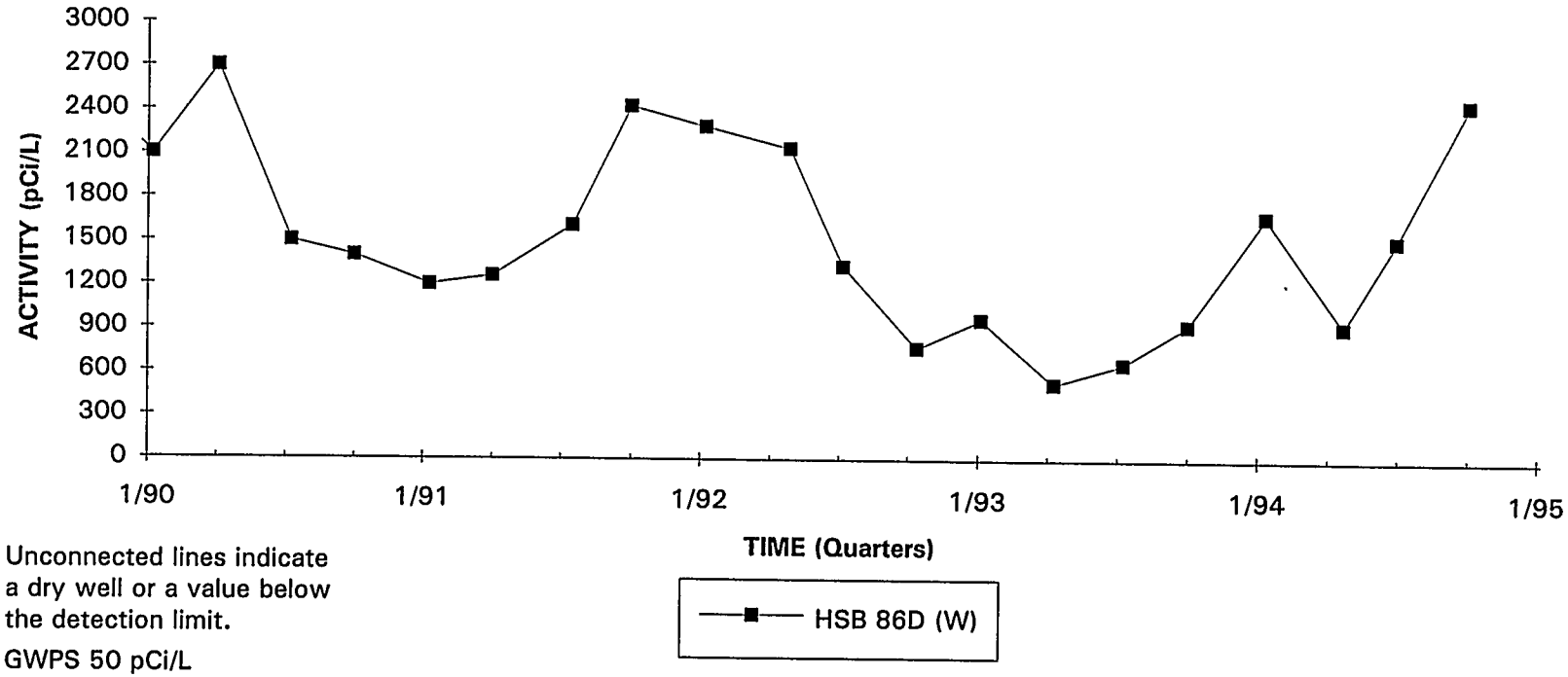


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB 86D

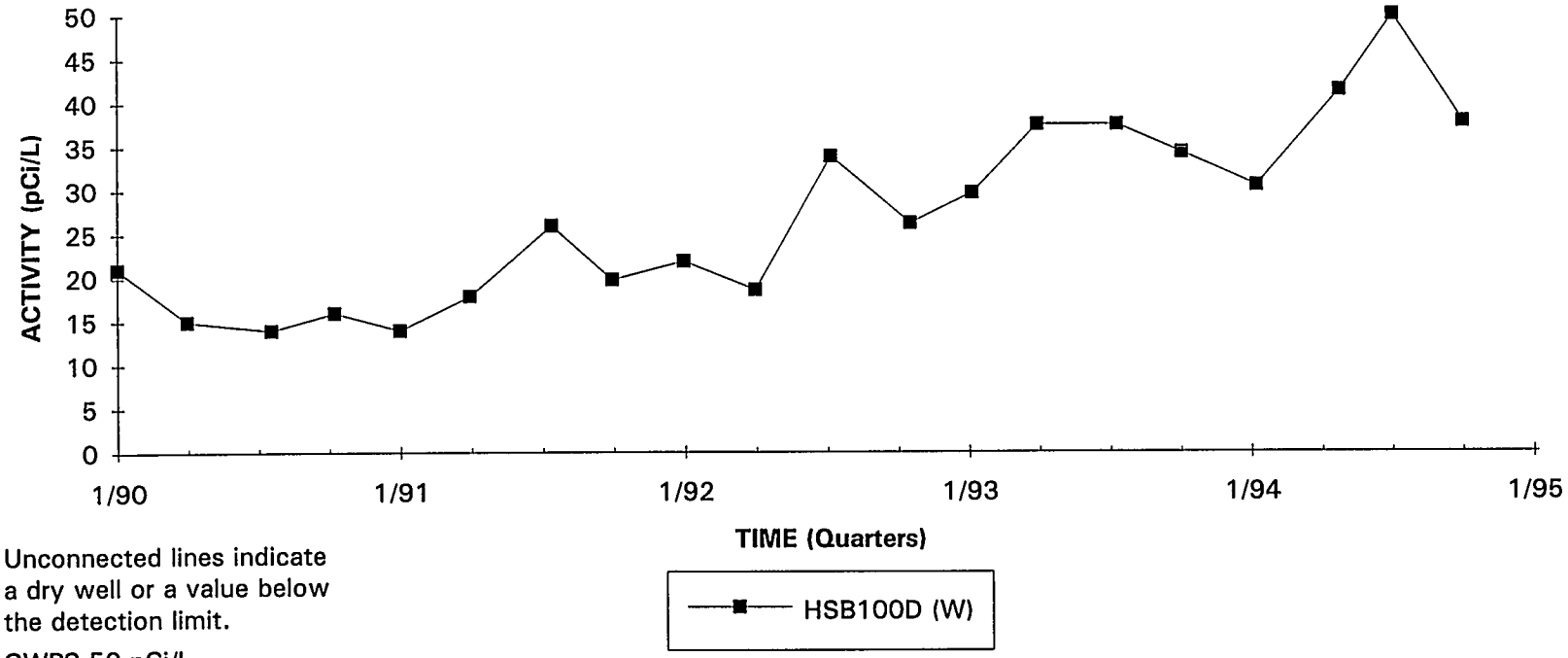


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB100D

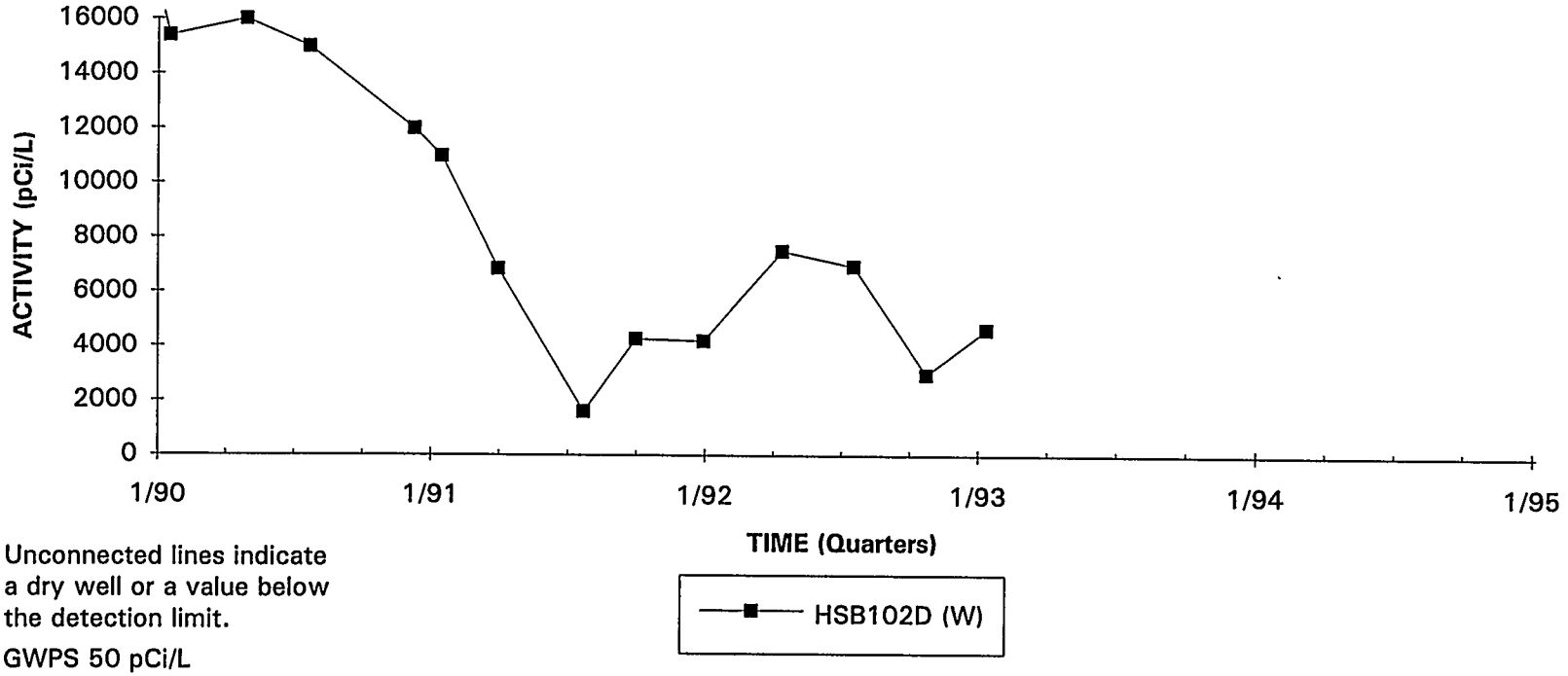


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB102D

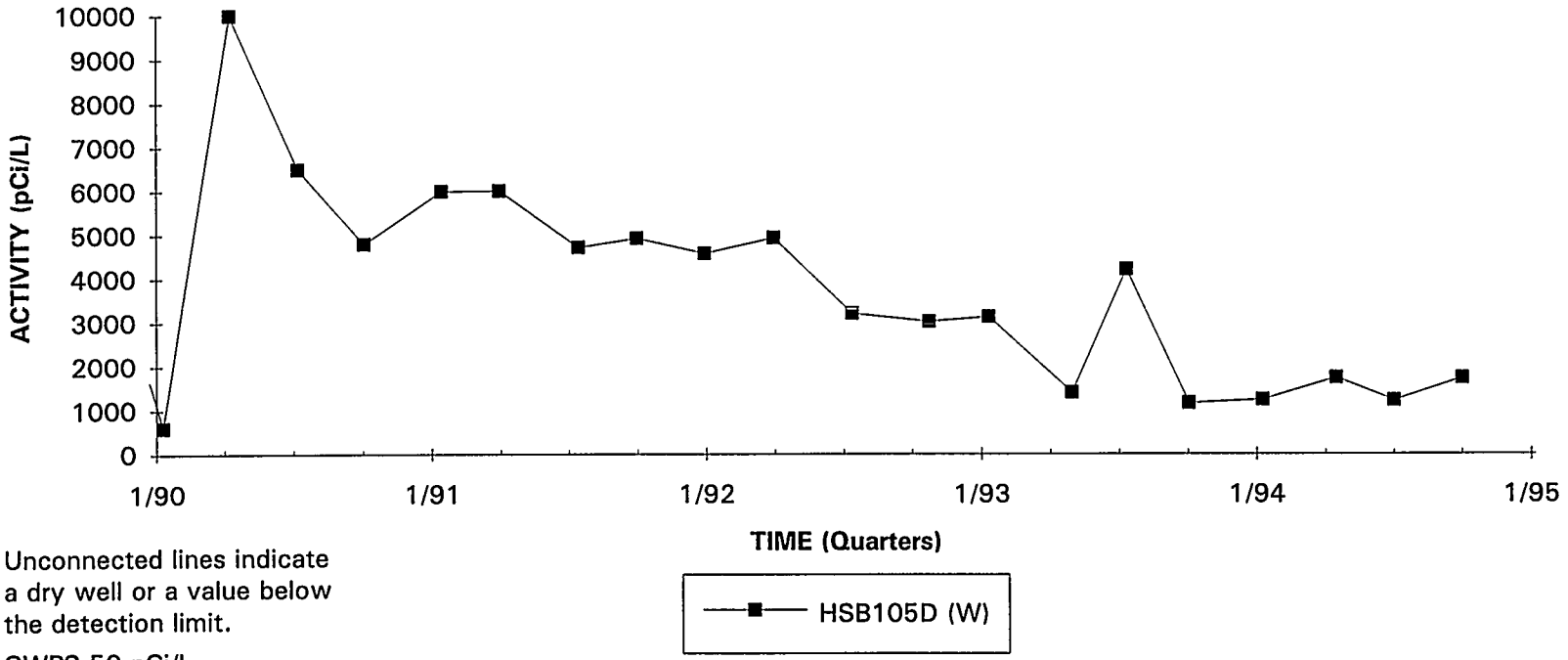


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB105D

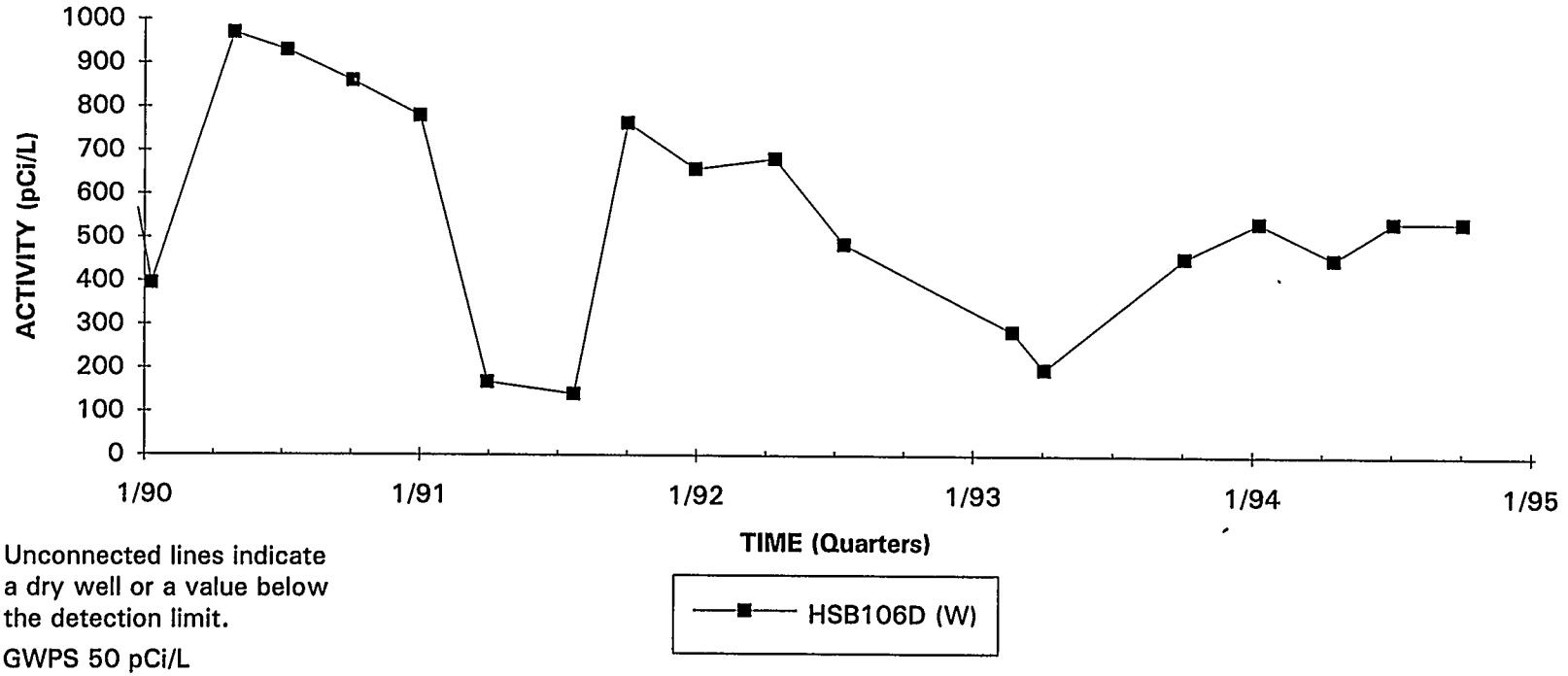


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB106D

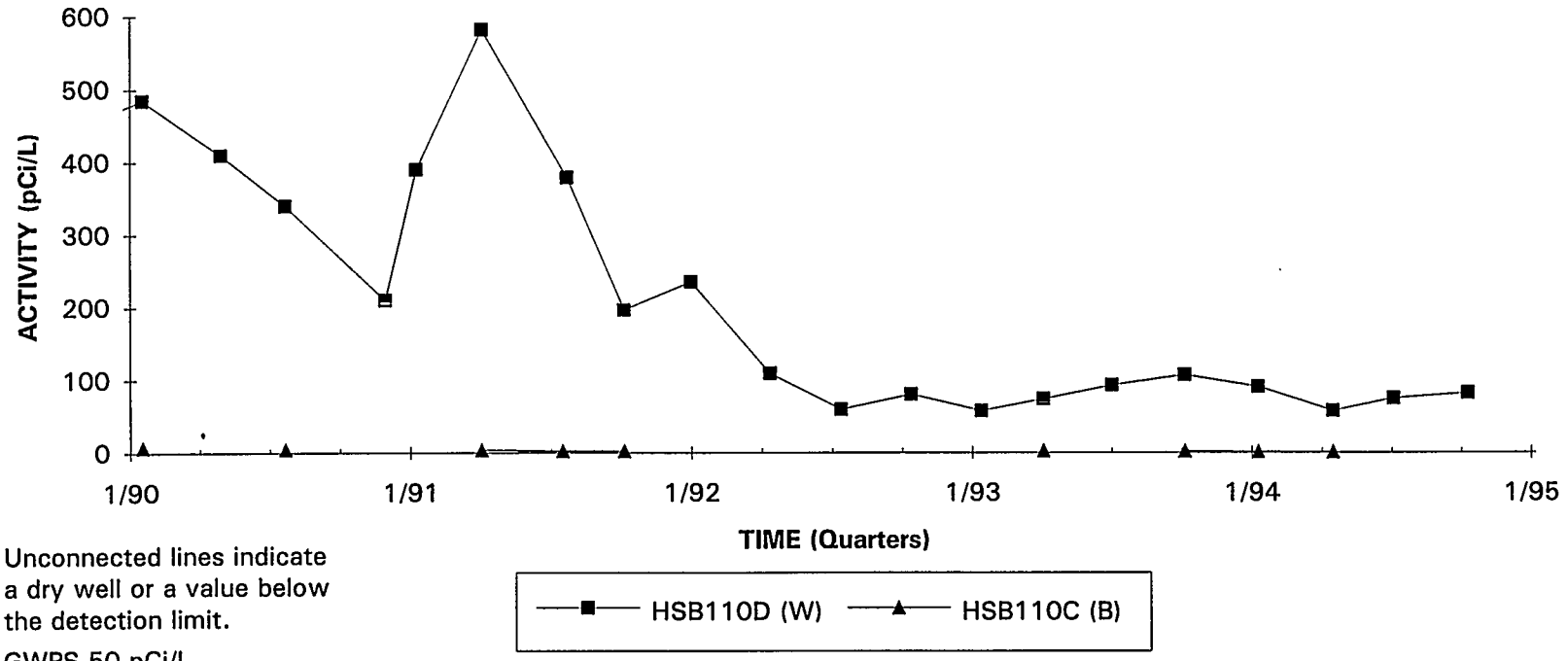


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB110

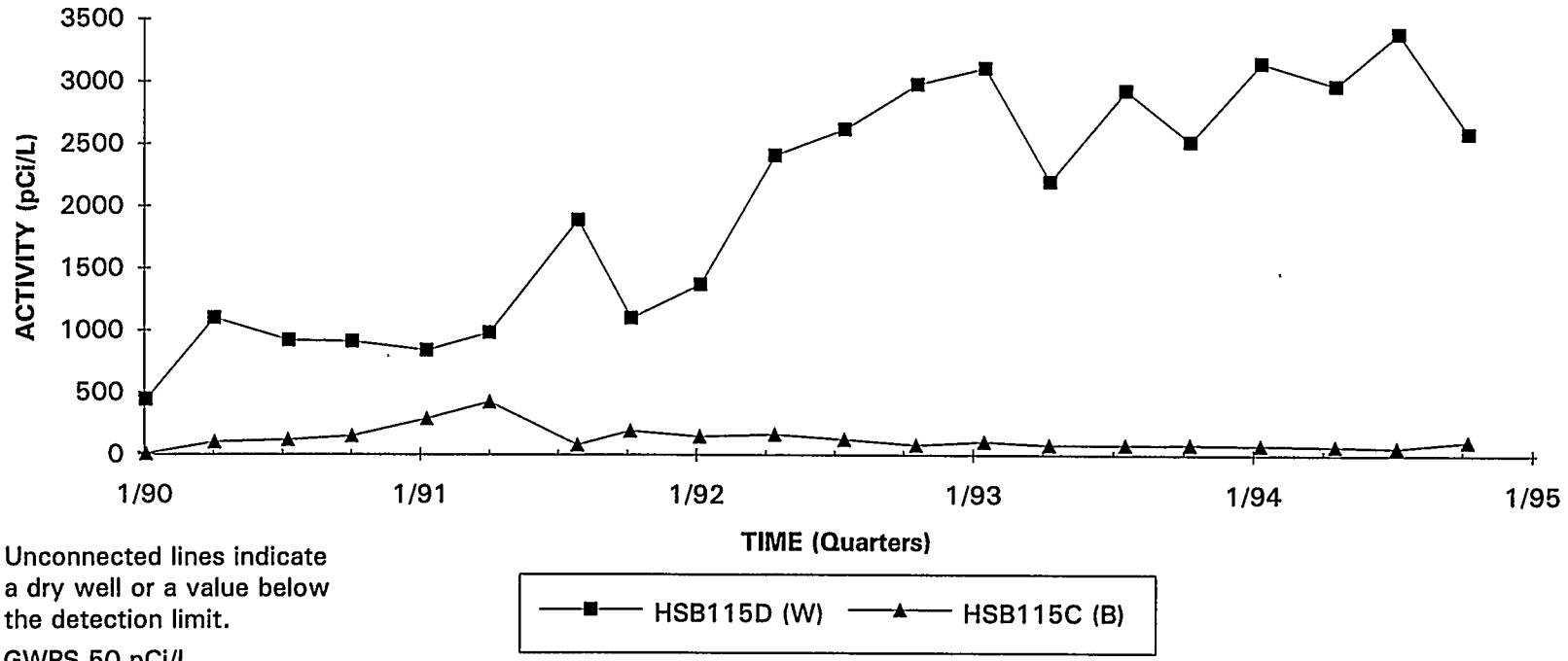


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB115

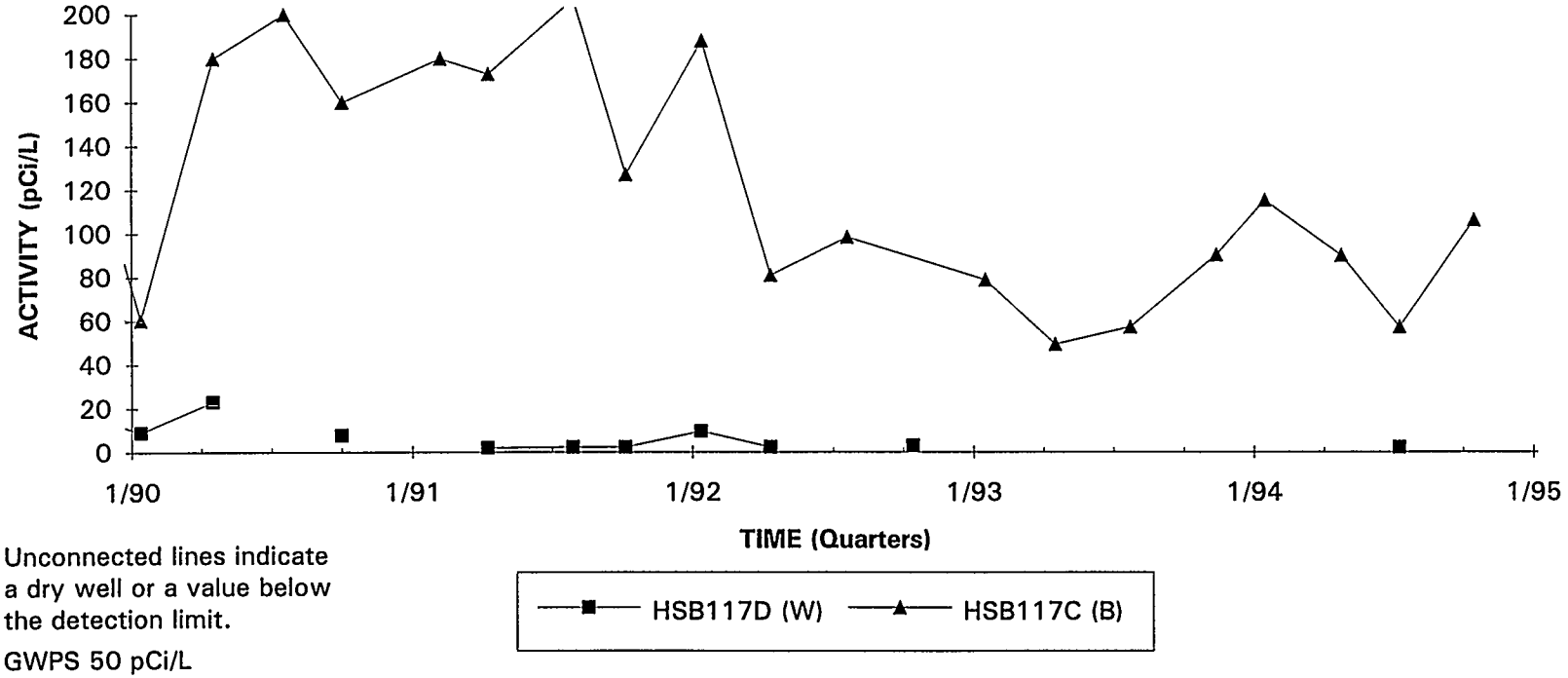


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB117

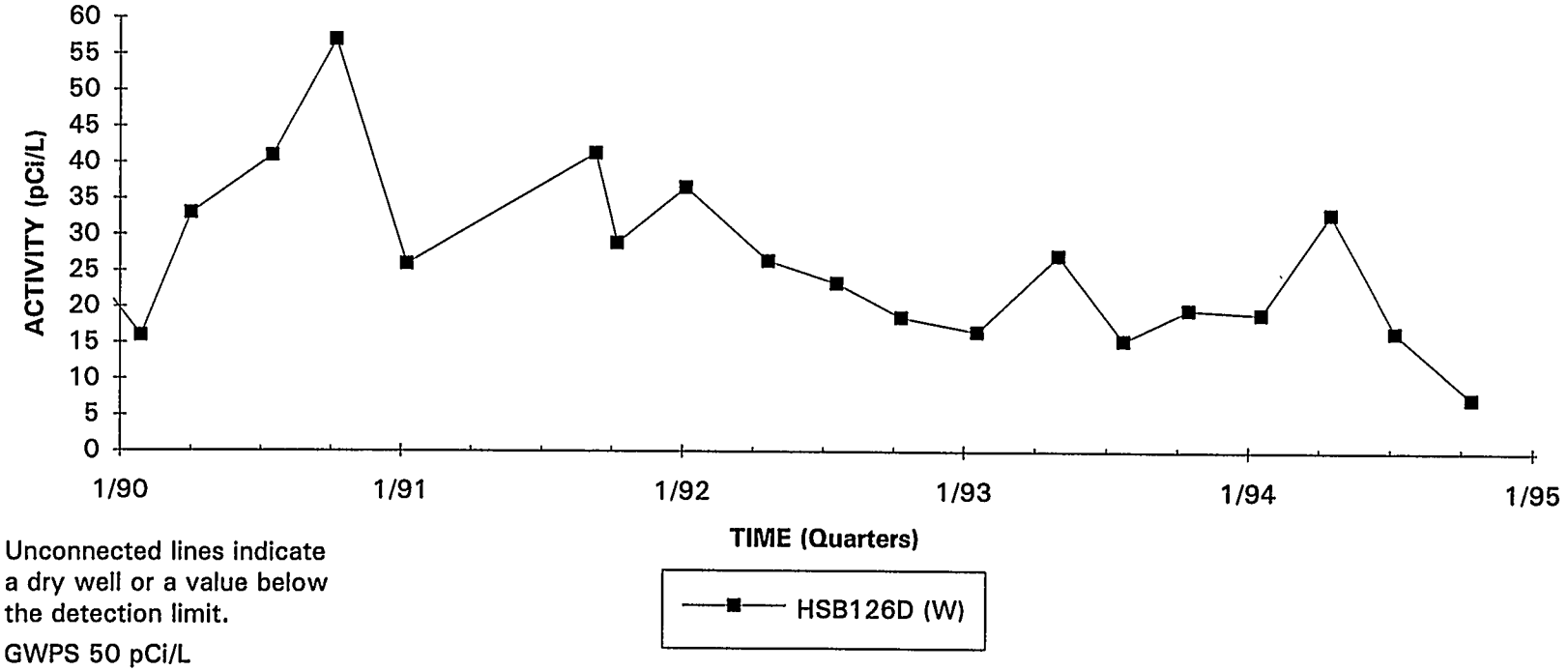


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB126D

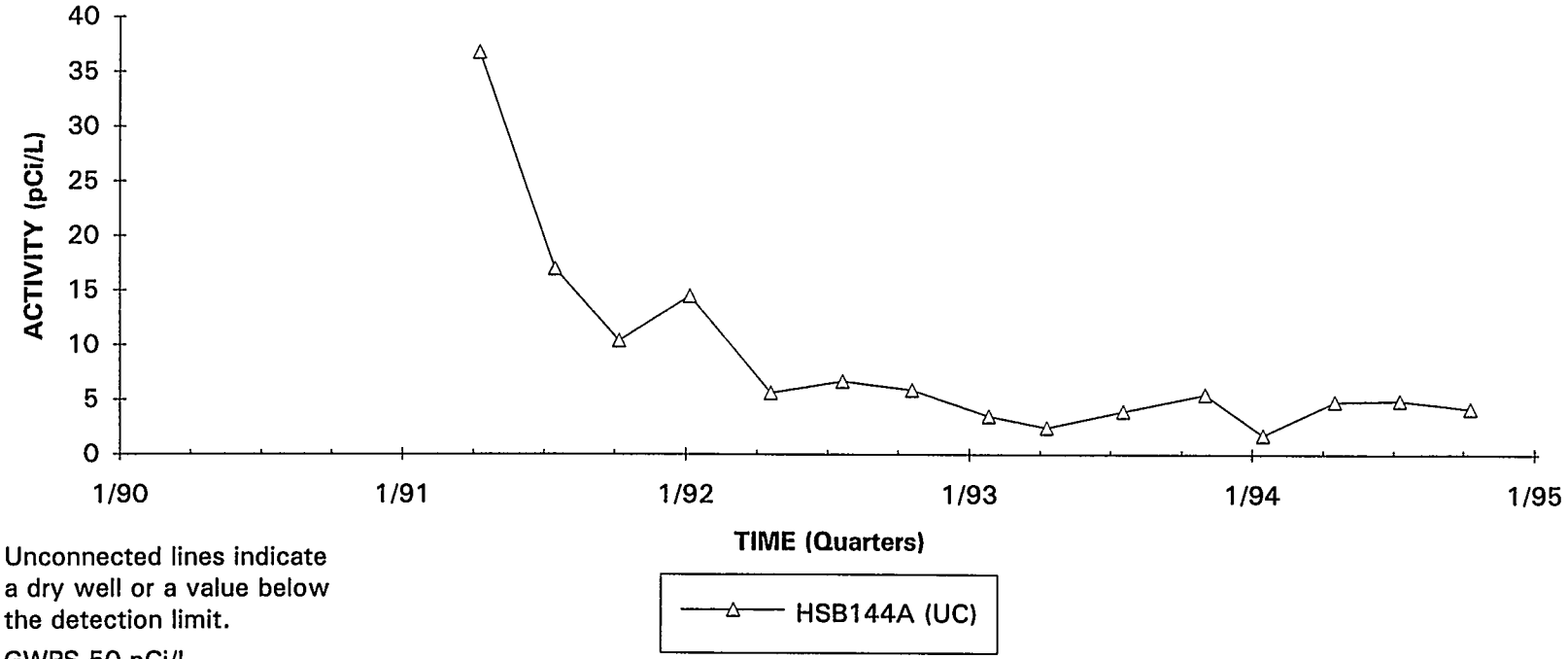


Unconnected lines indicate a dry well or a value below the detection limit.

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)

Nonvolatiie Beta Activities
Well HSB144A

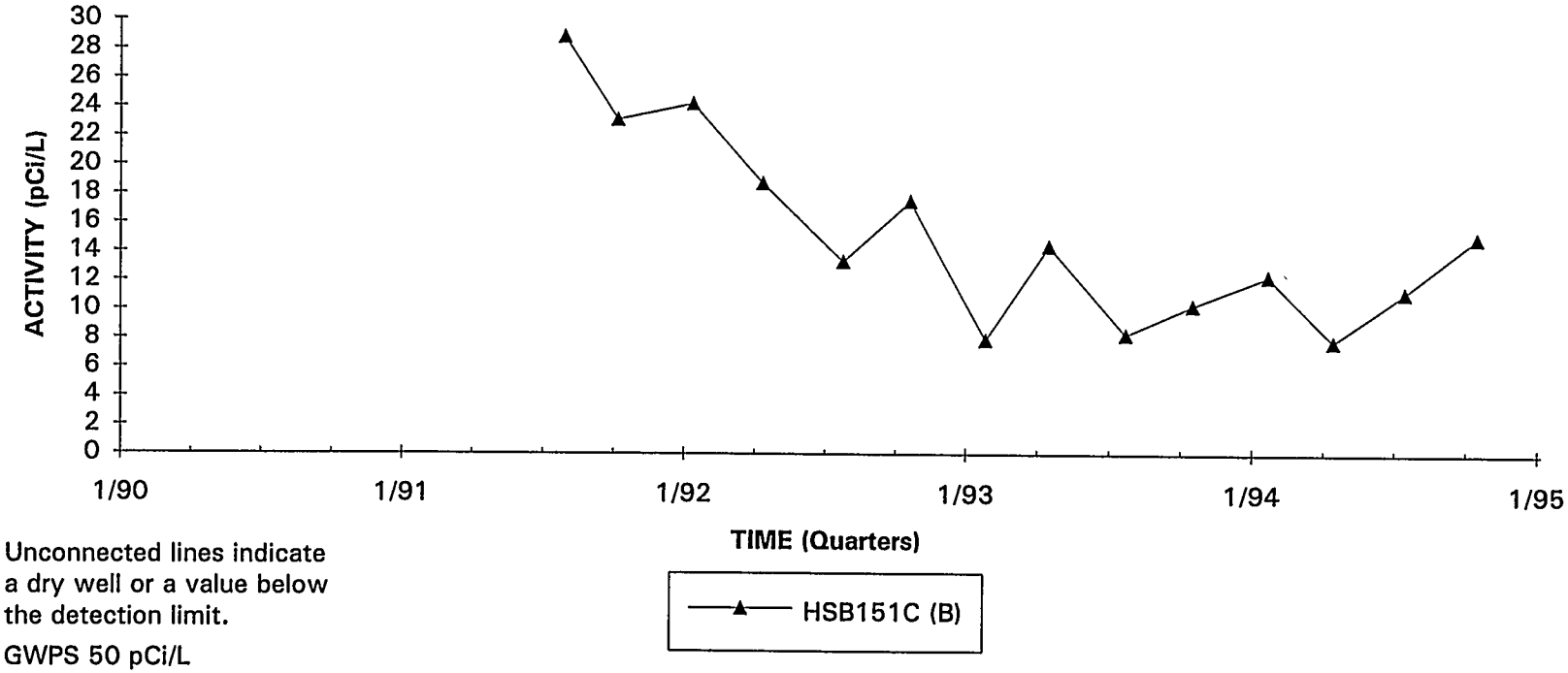


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB151C

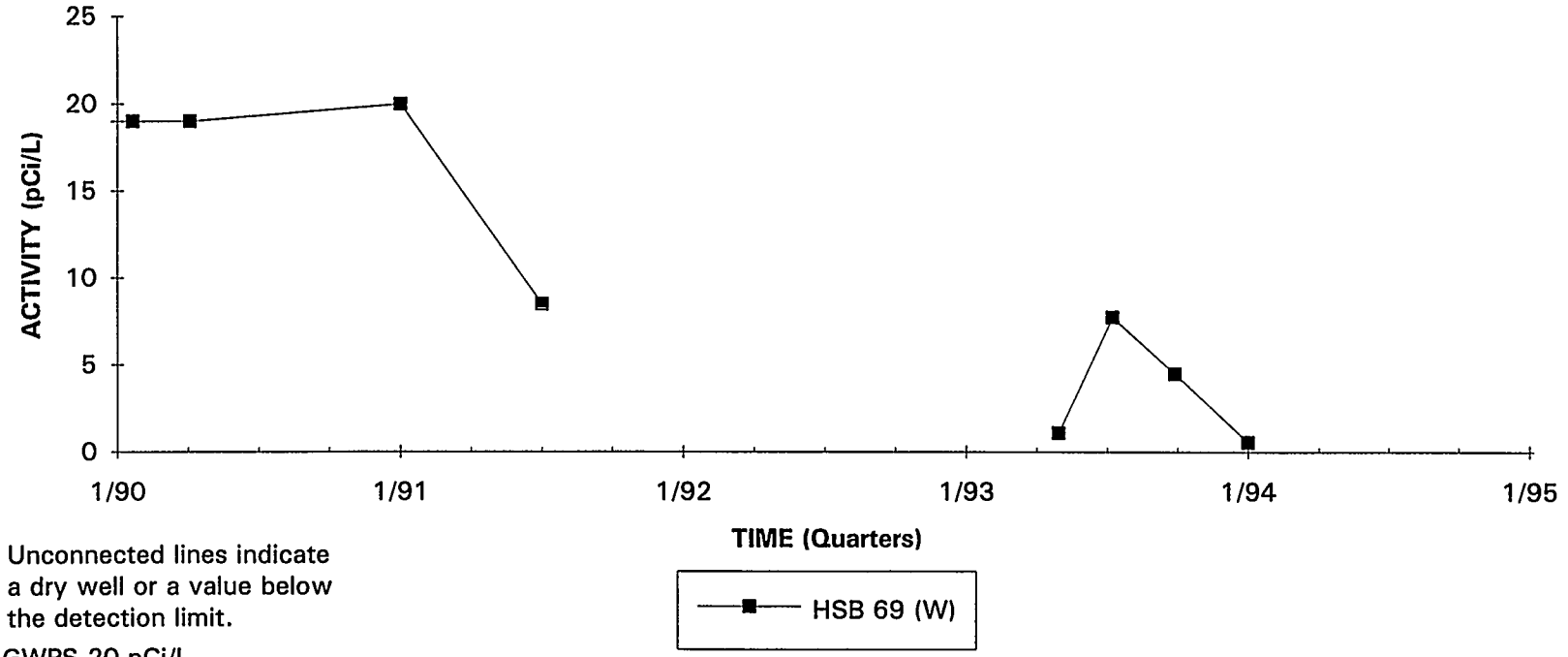


Unconnected lines indicate a dry well or a value below the detection limit.

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)

Radium-226 Activities
Well HSB 69

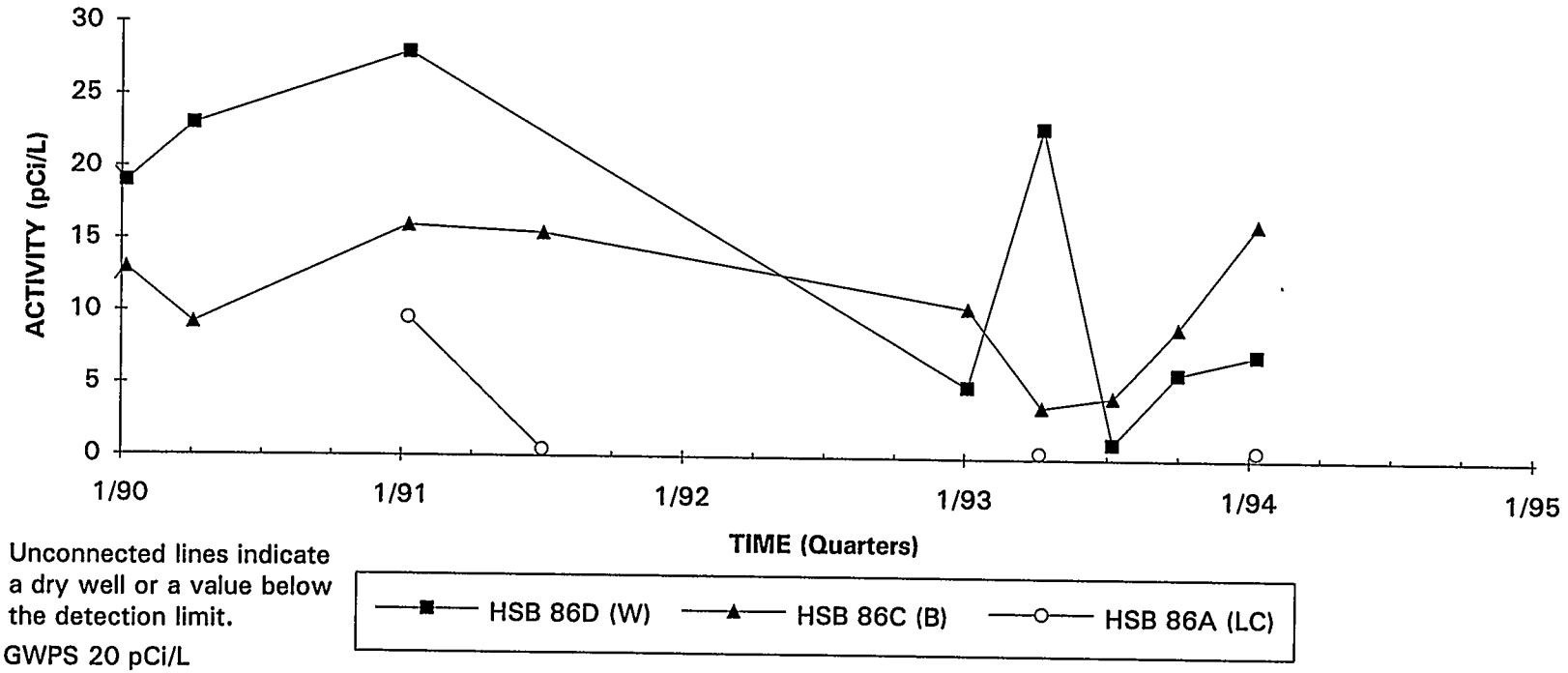


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB 86

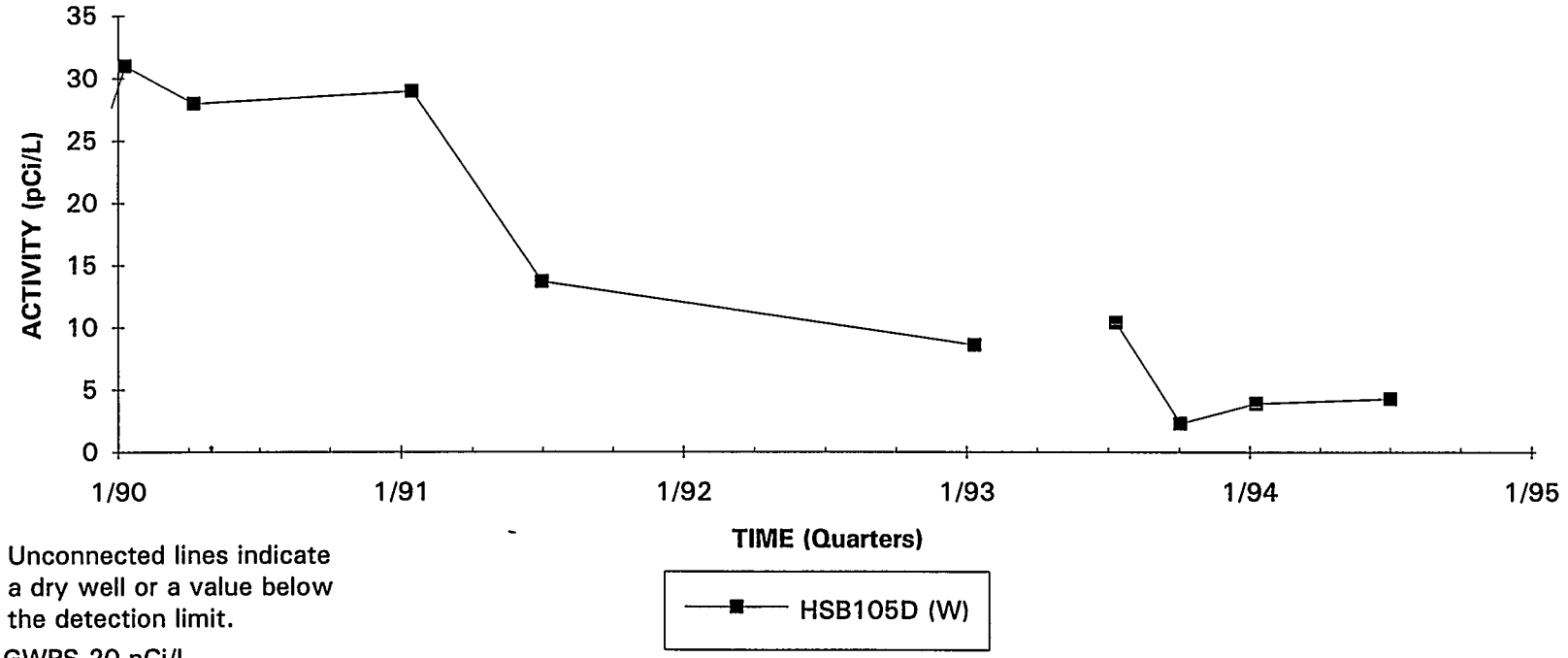


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB105D

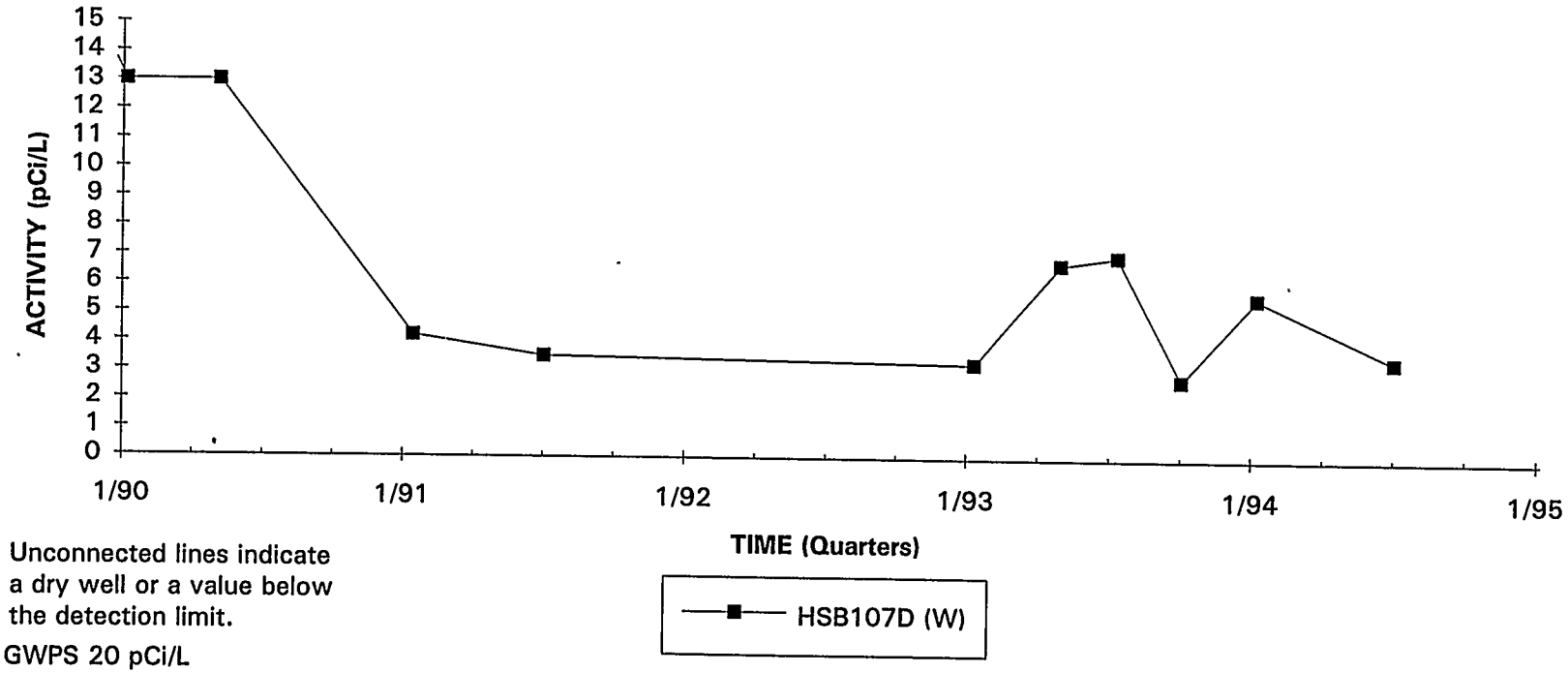


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB107D

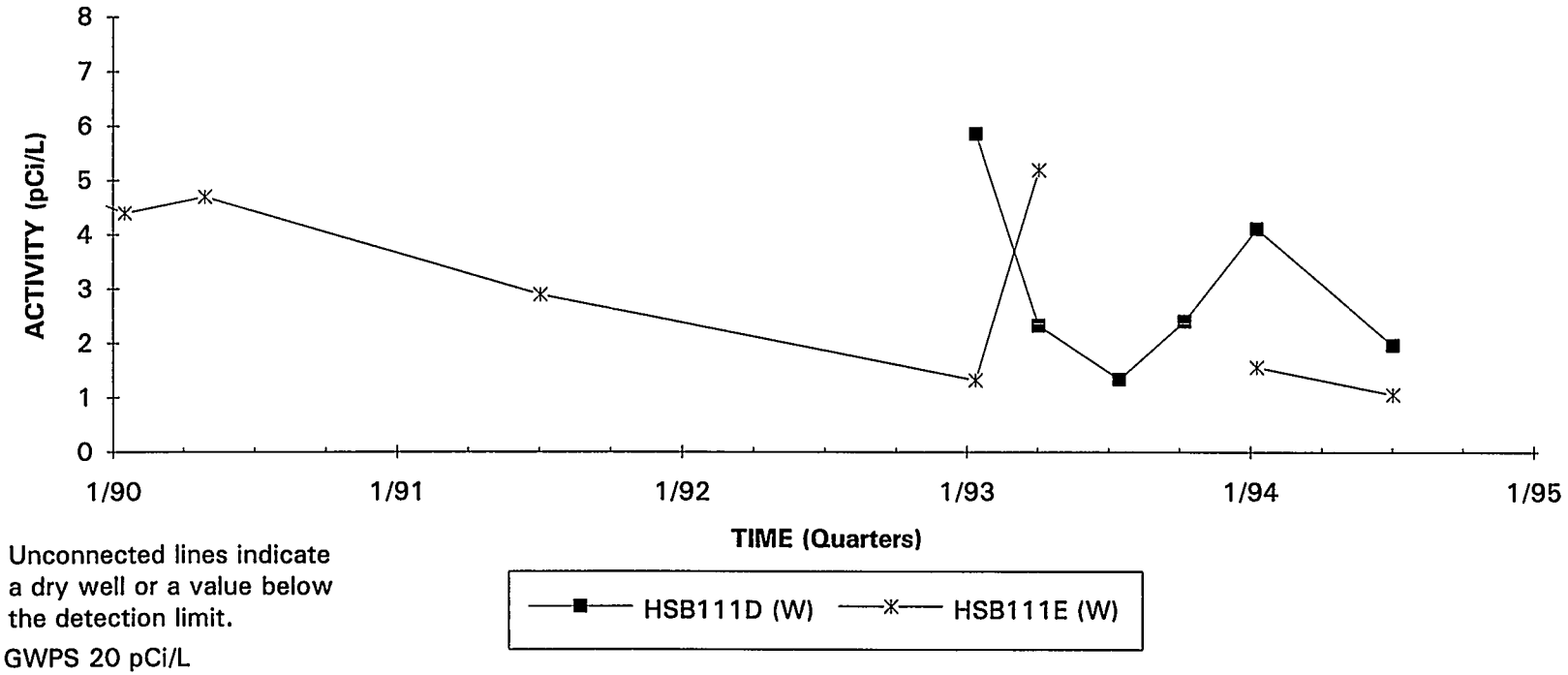


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB111

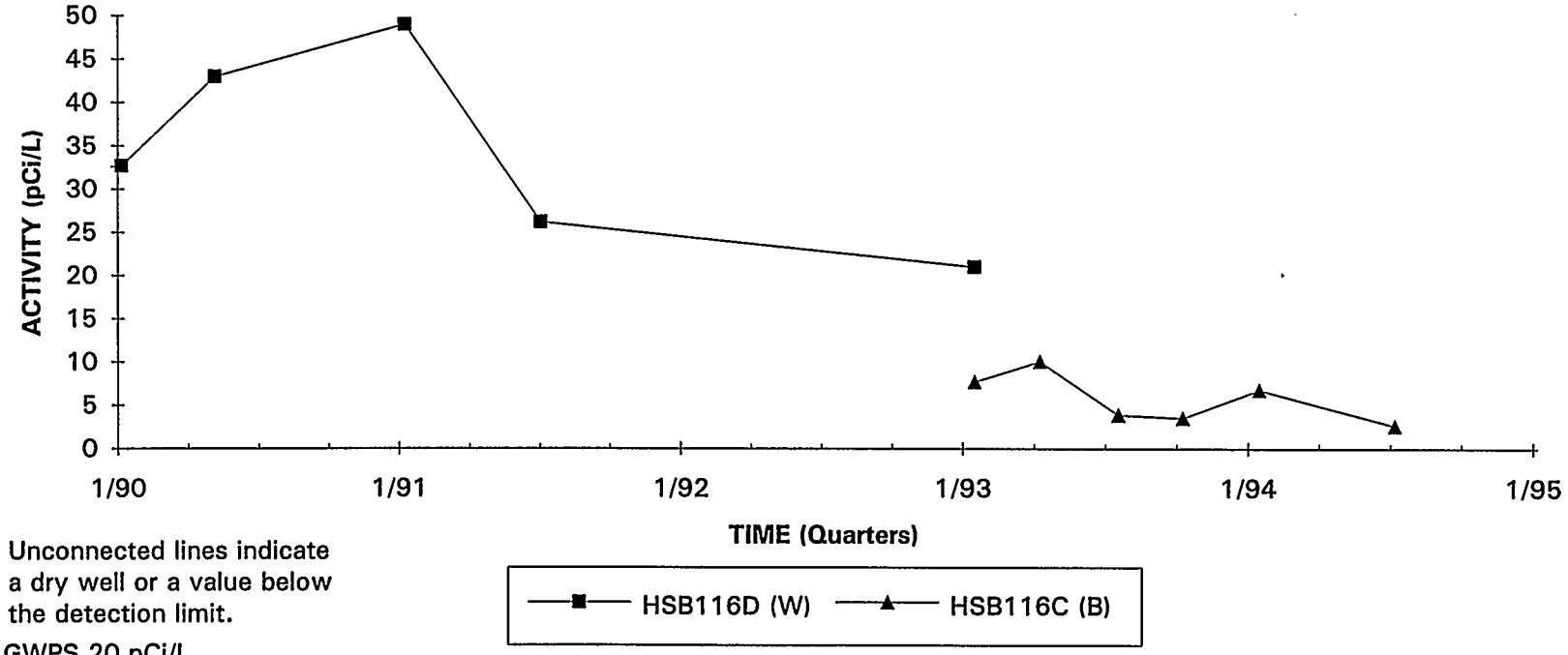


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB116

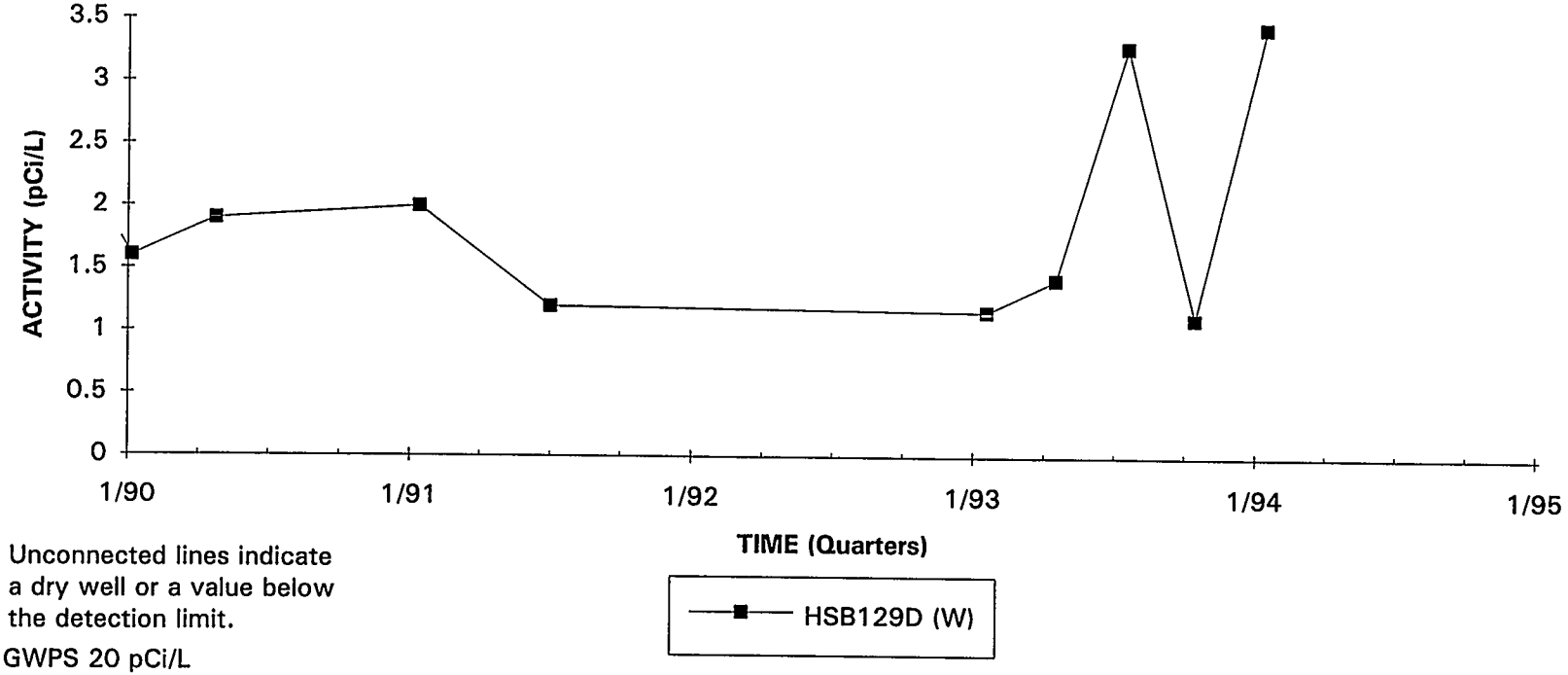


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB129D

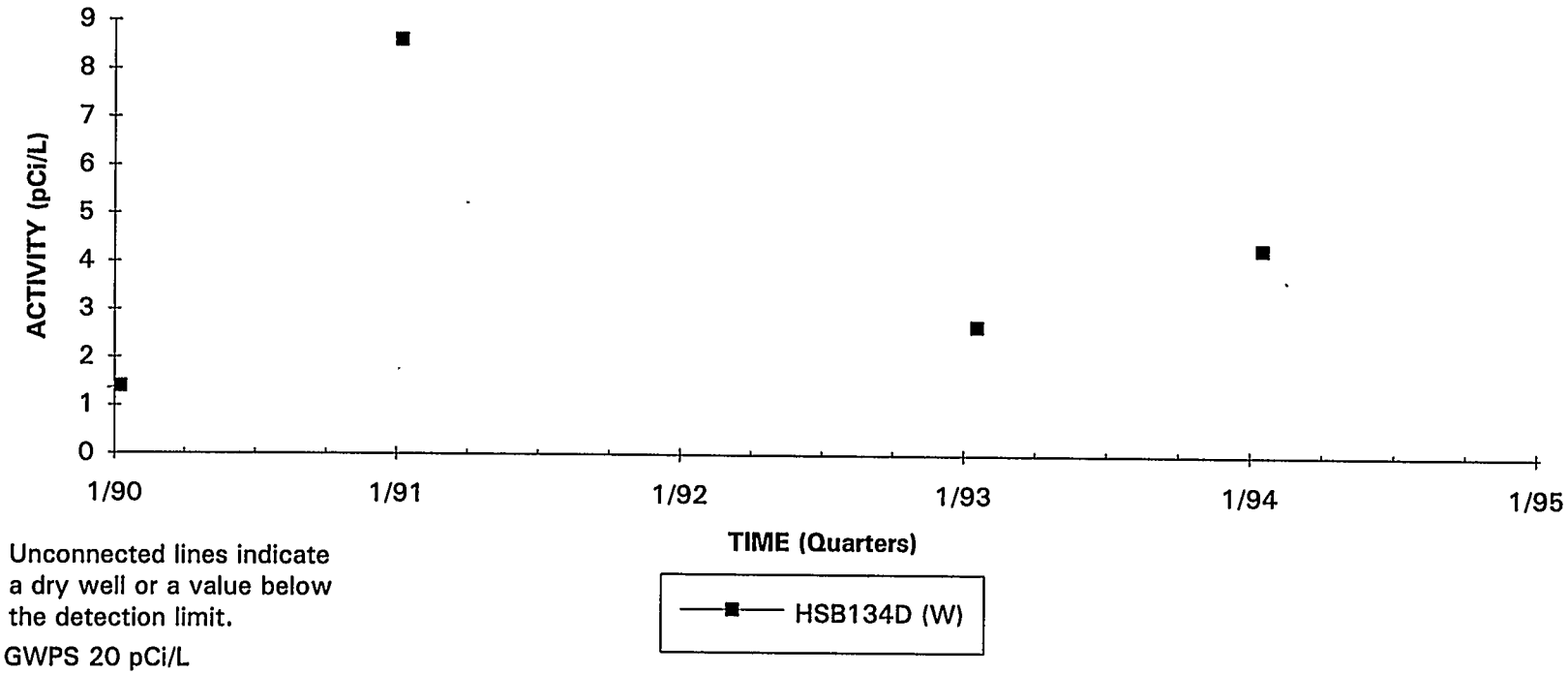


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB134D

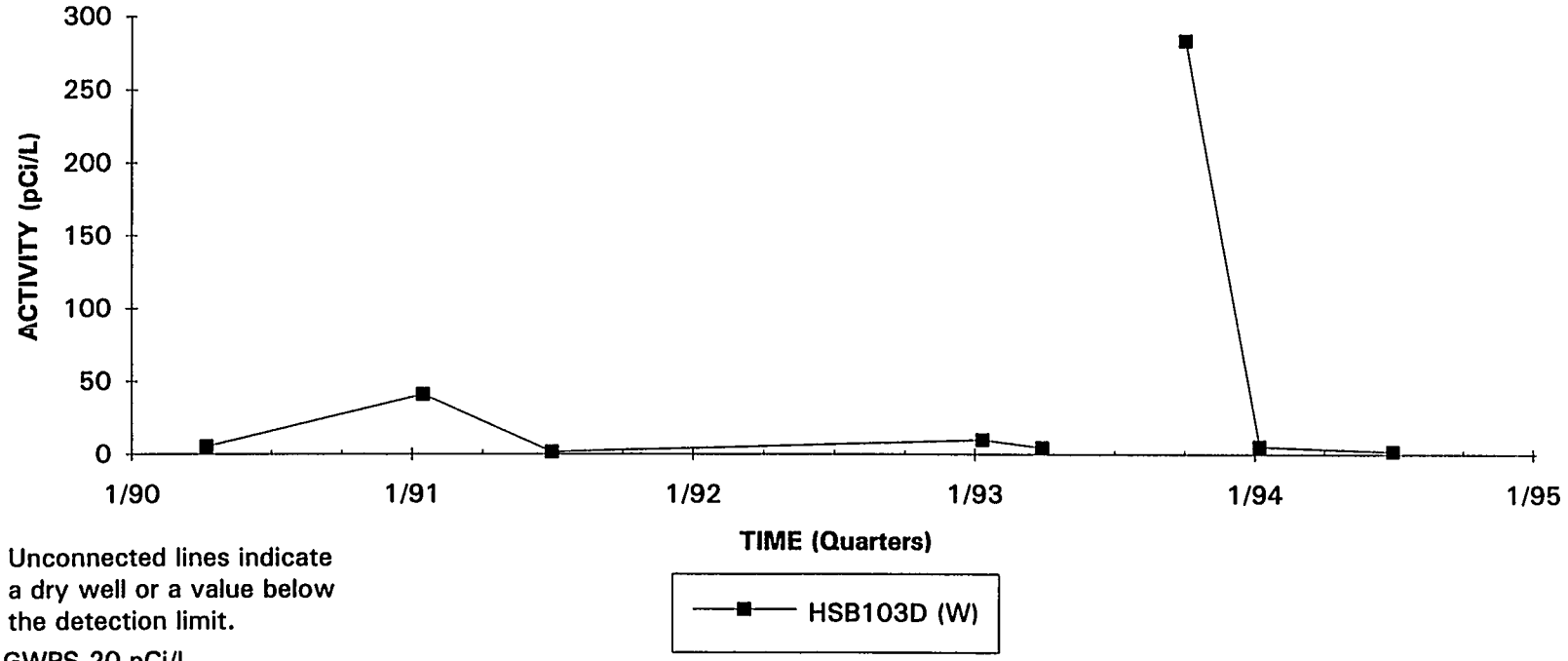


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB103D

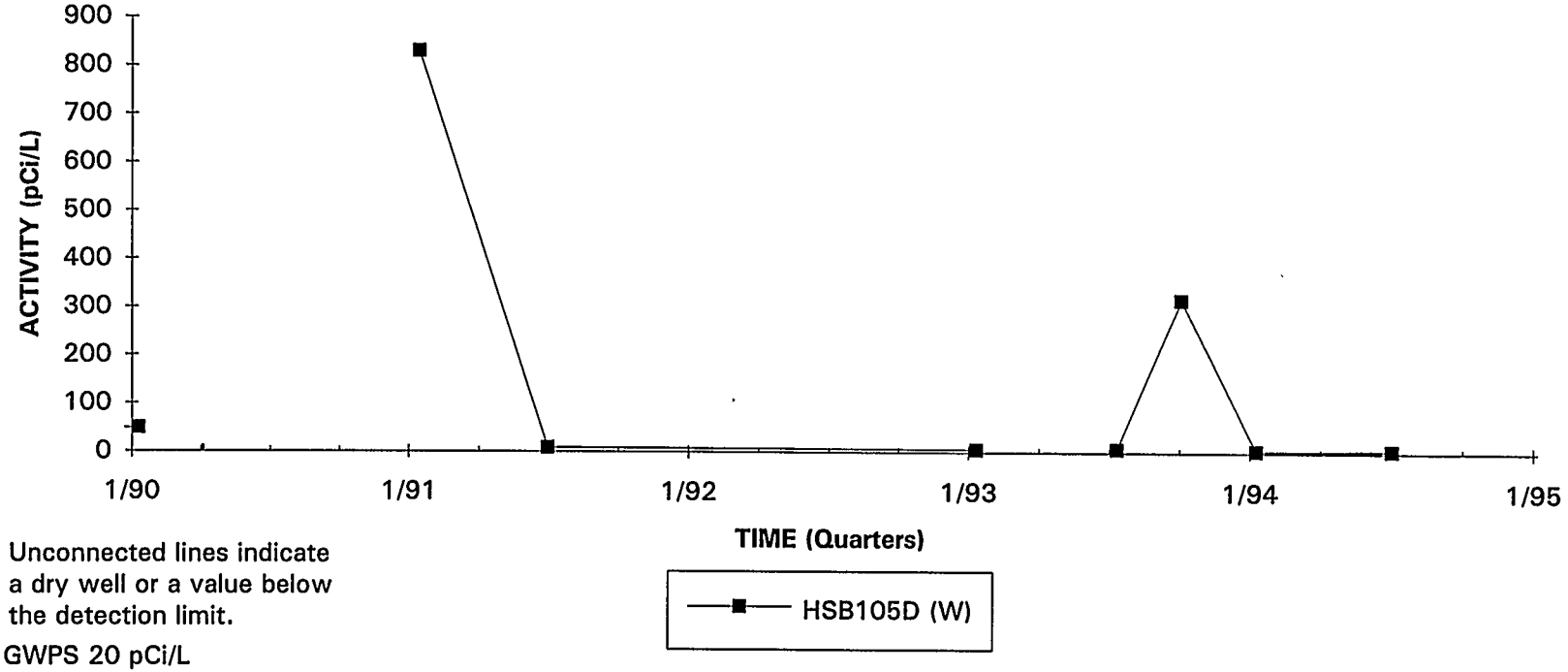


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB105D

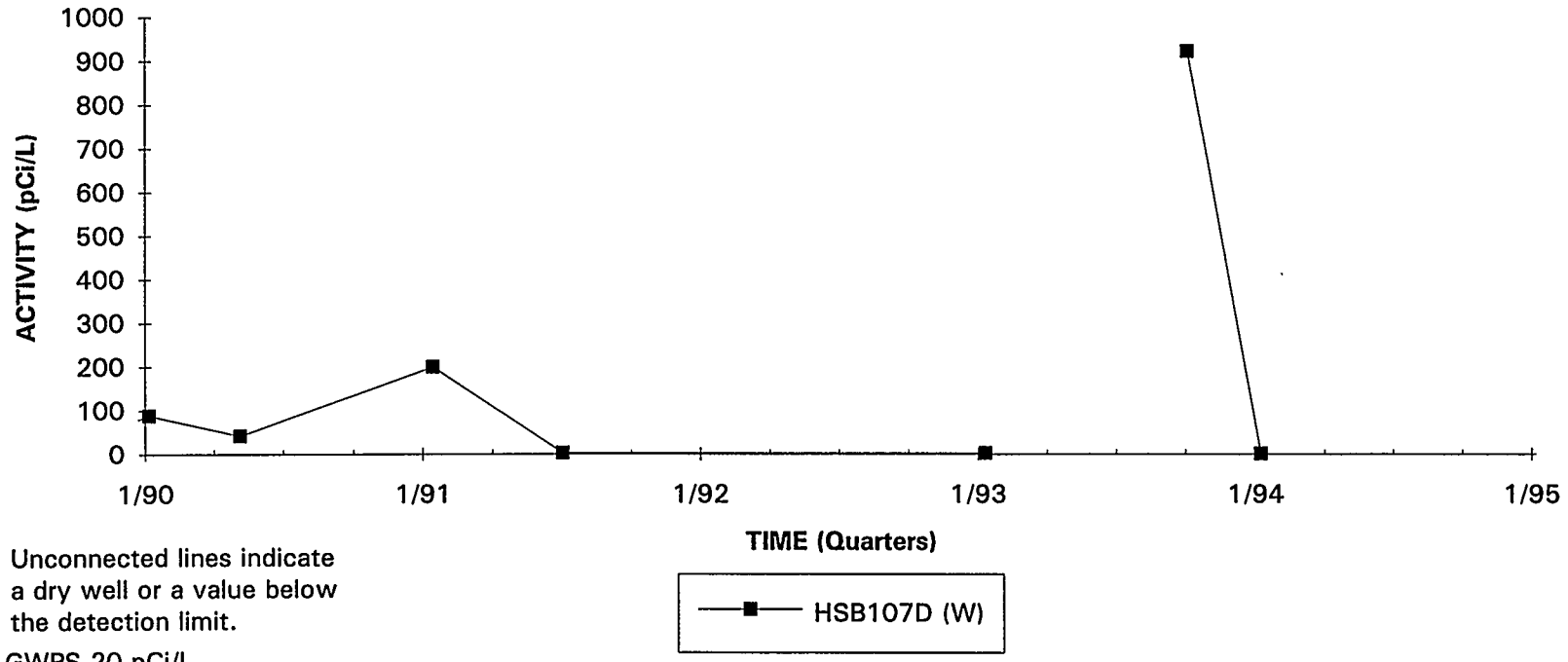


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB107D

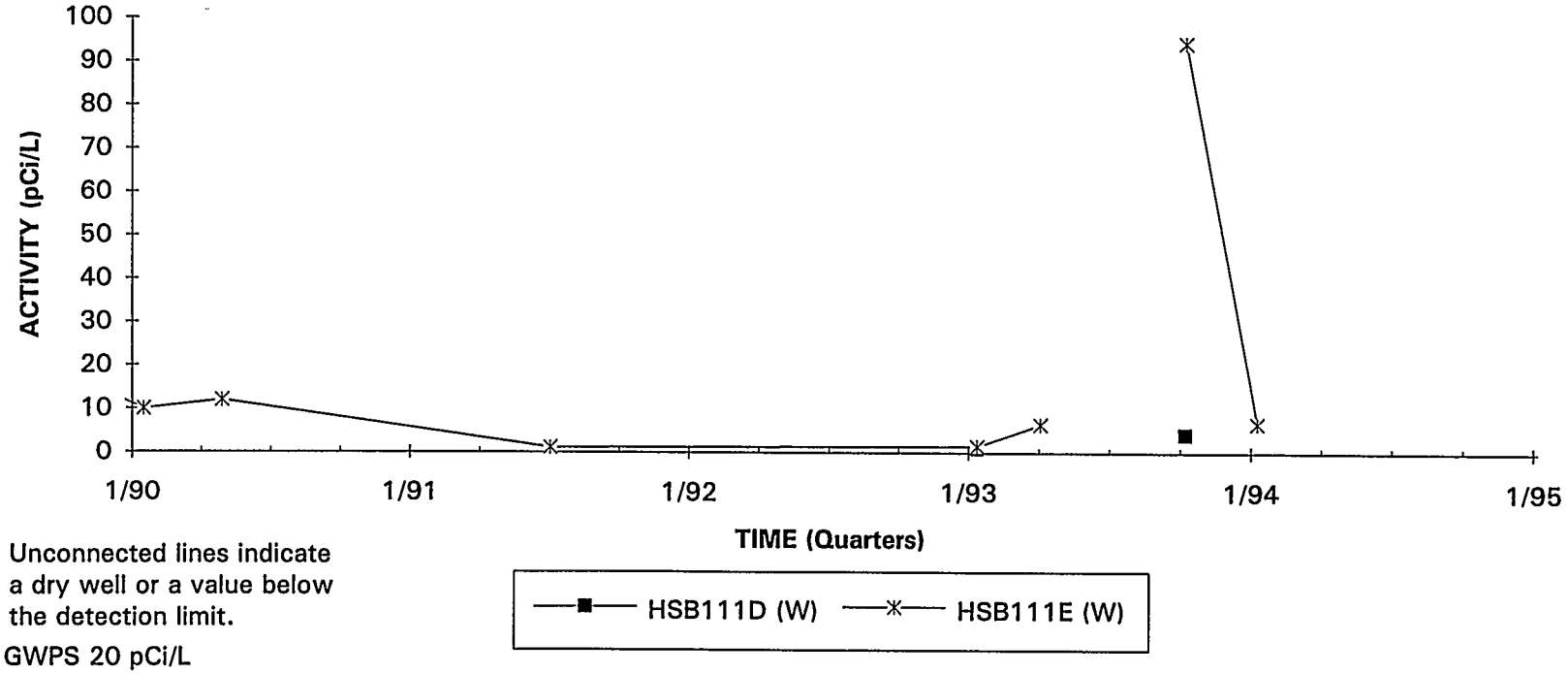


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB111

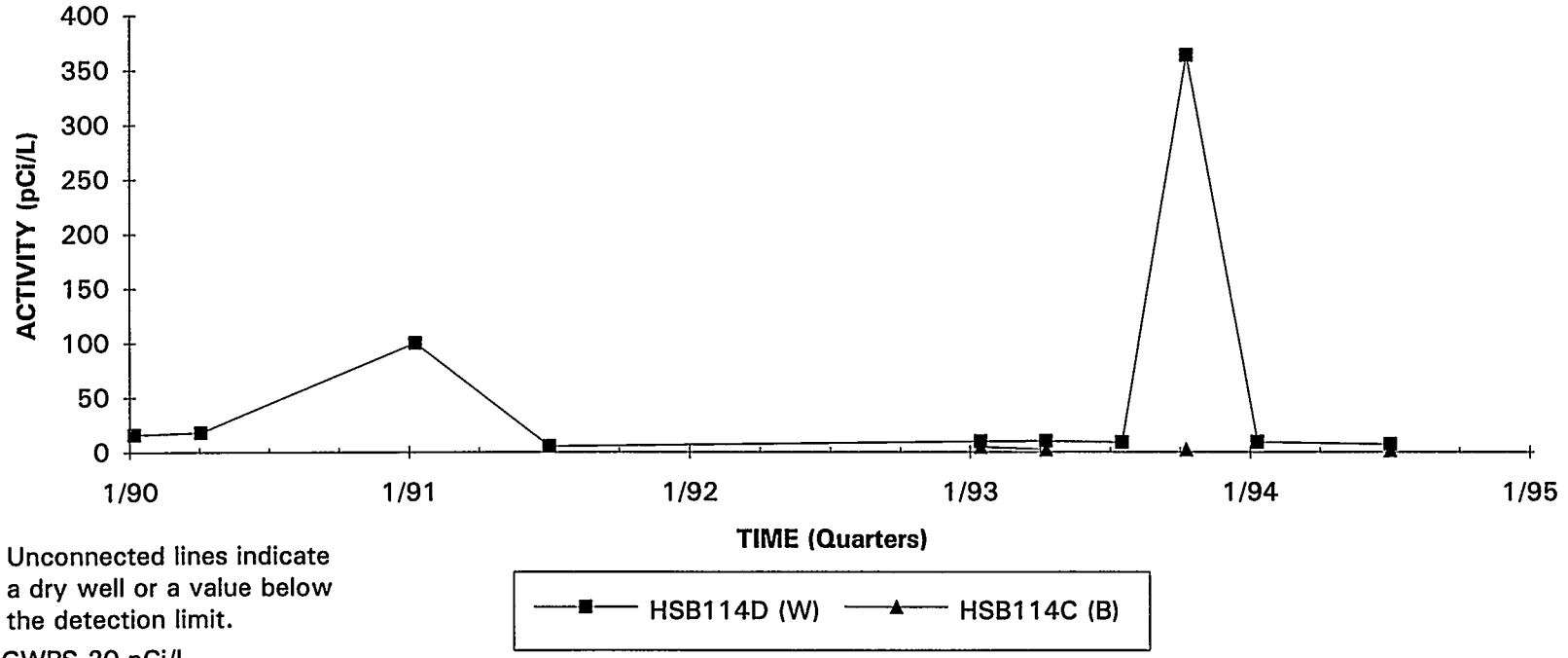


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB114

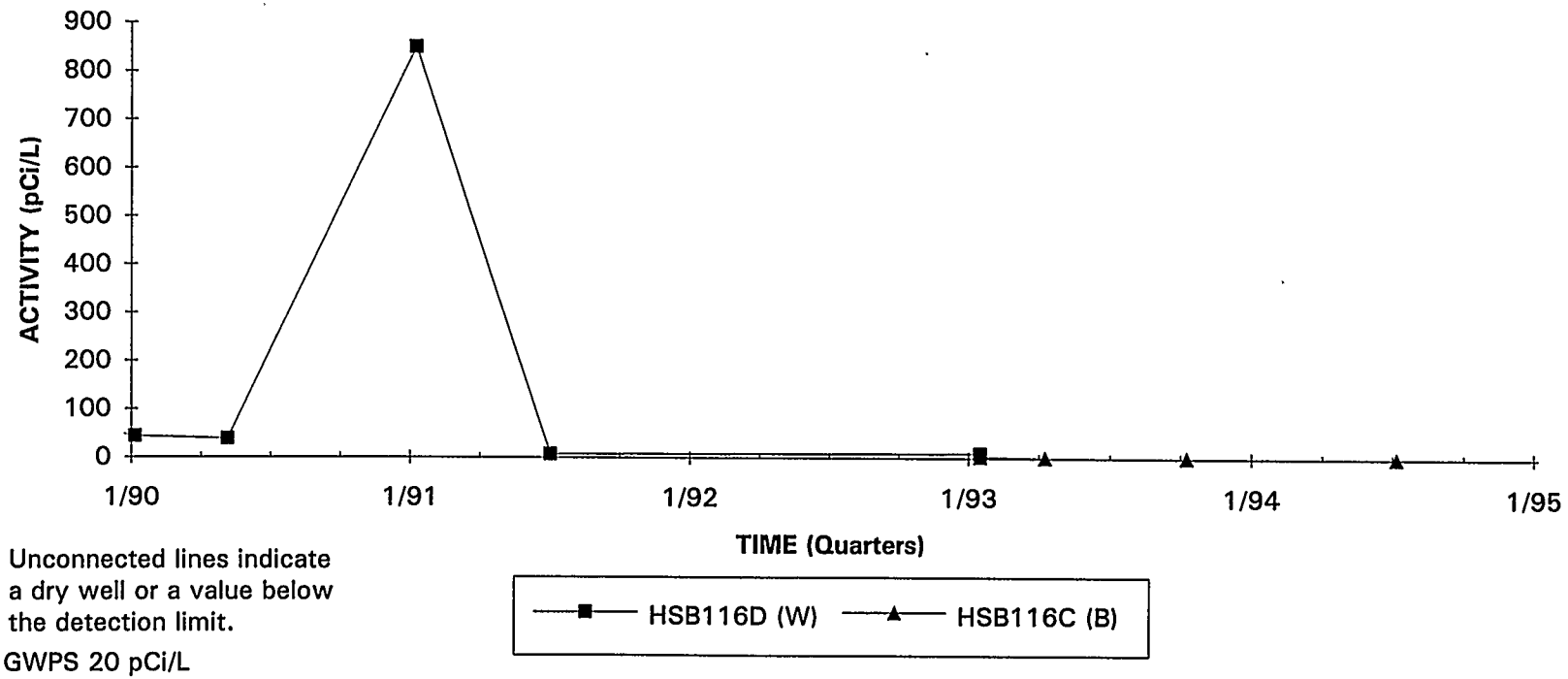


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB116

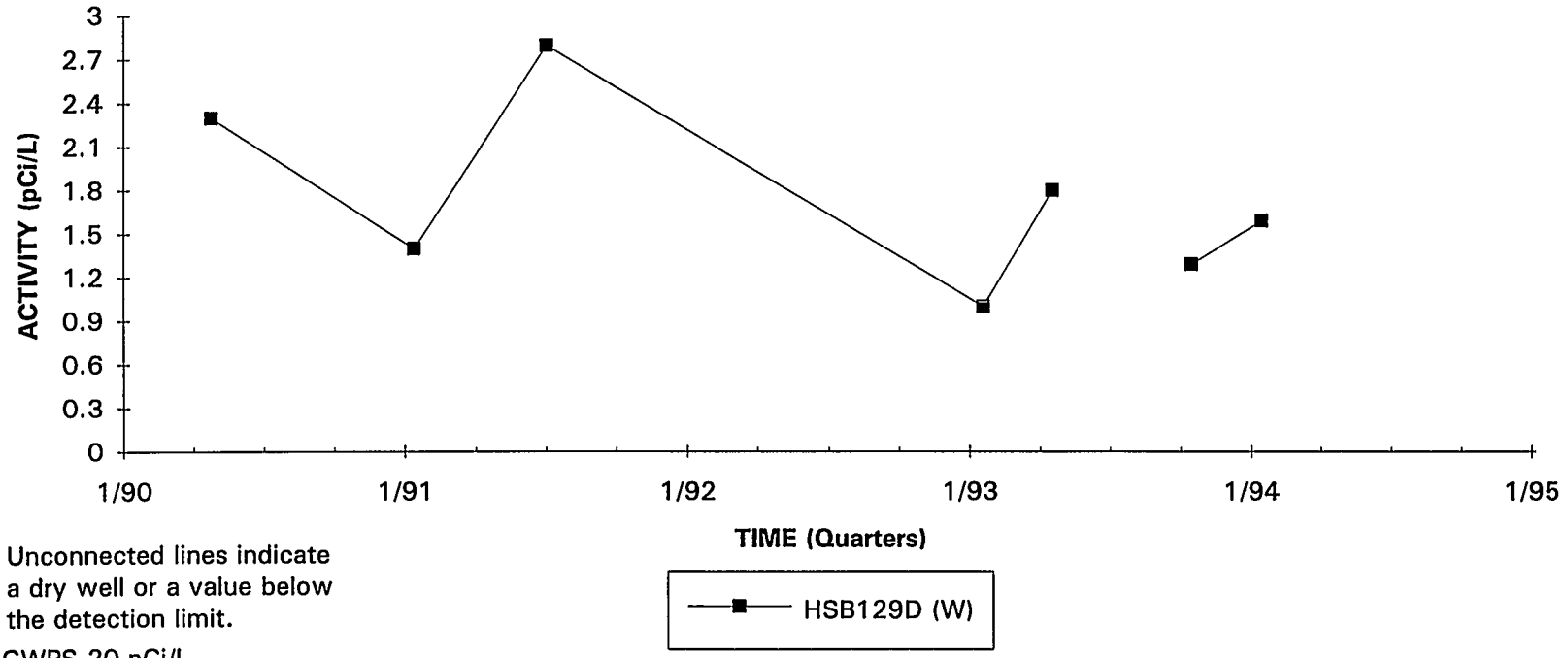


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB129D

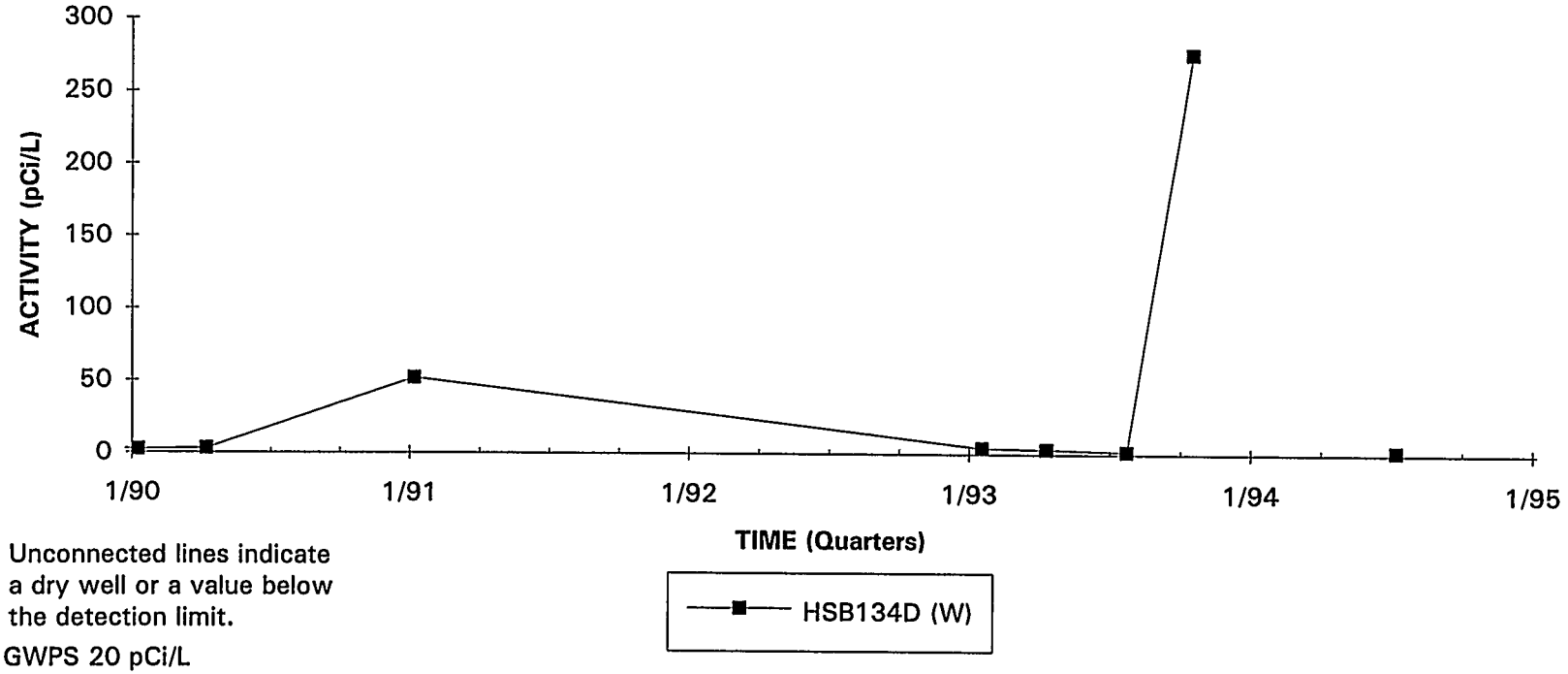


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB134D

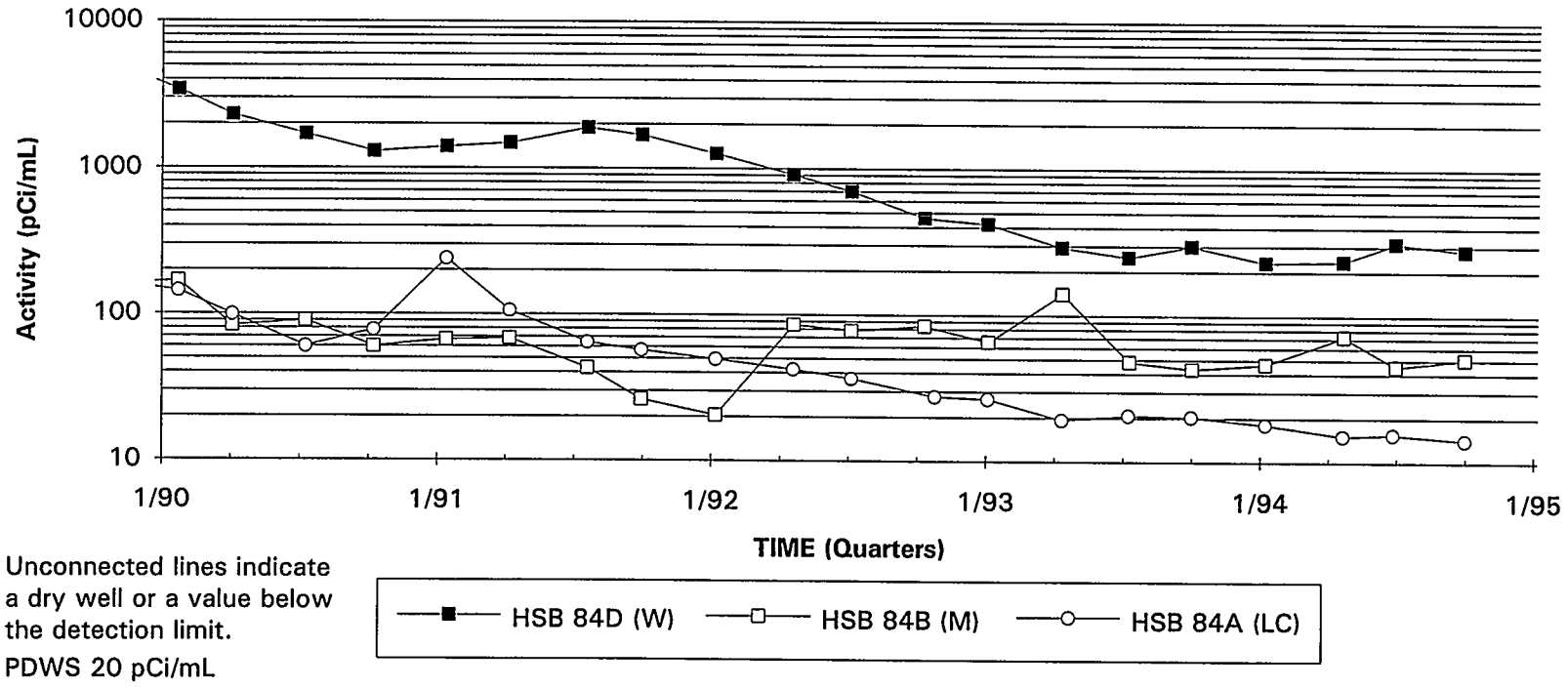


Unconnected lines indicate a dry well or a value below the detection limit.

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)

Tritium Activities
Well Cluster HSB 84

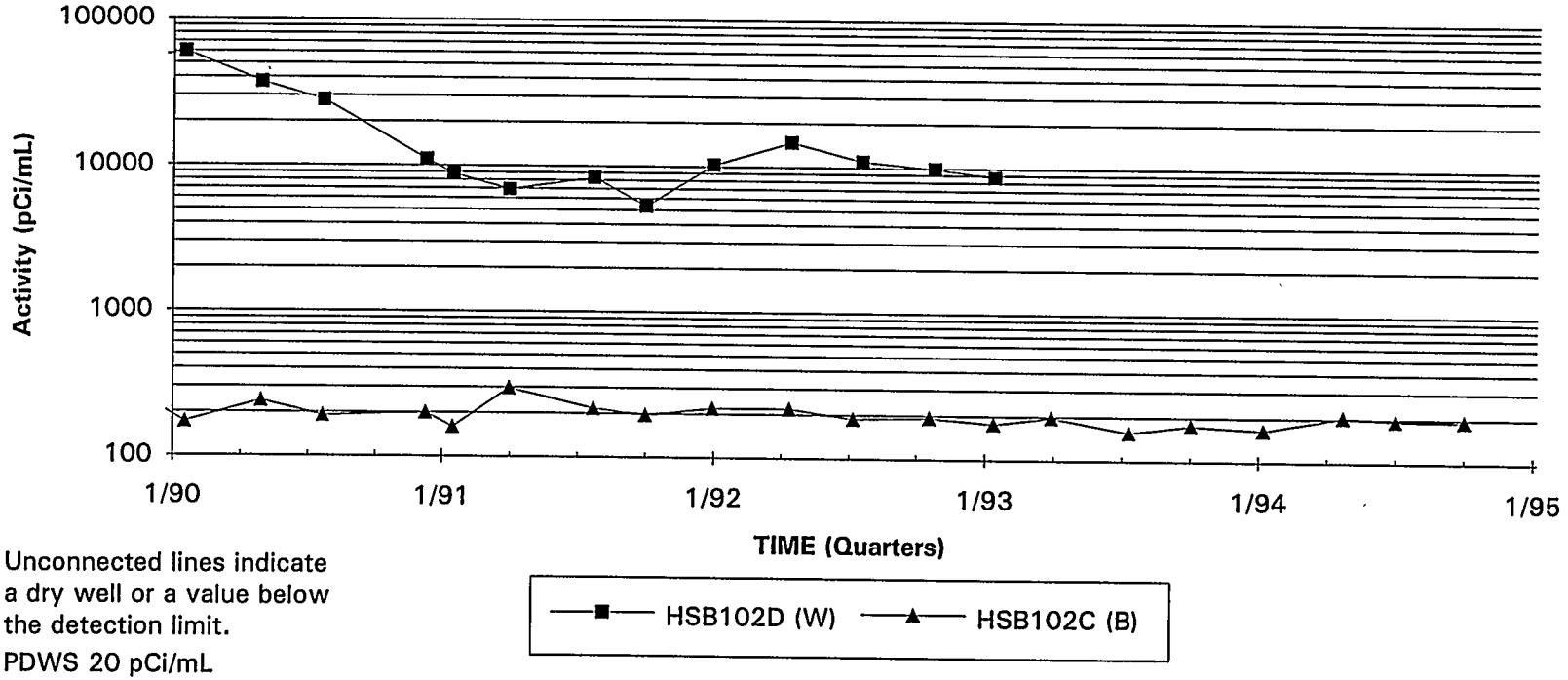


Unconnected lines indicate a dry well or a value below the detection limit.

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)

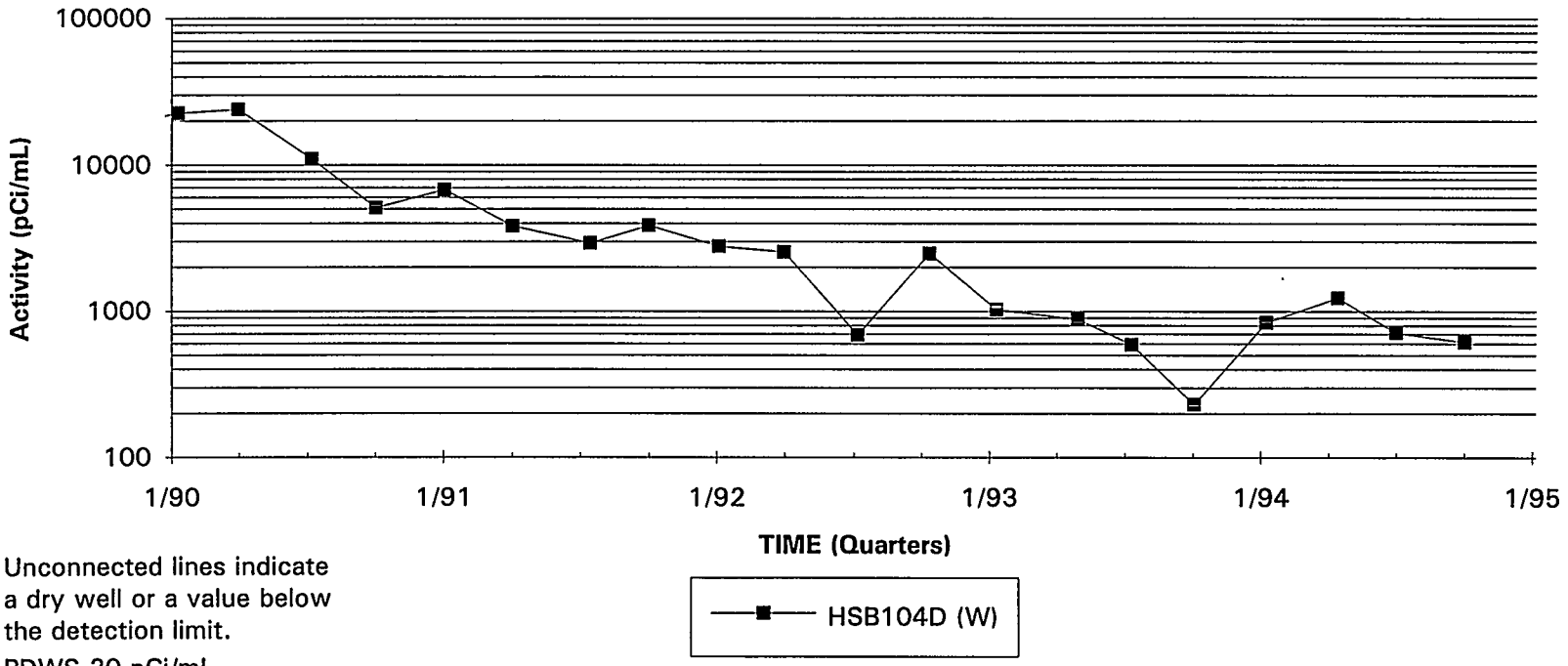
Tritium Activities
Well Cluster HSB102



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 HSB104D

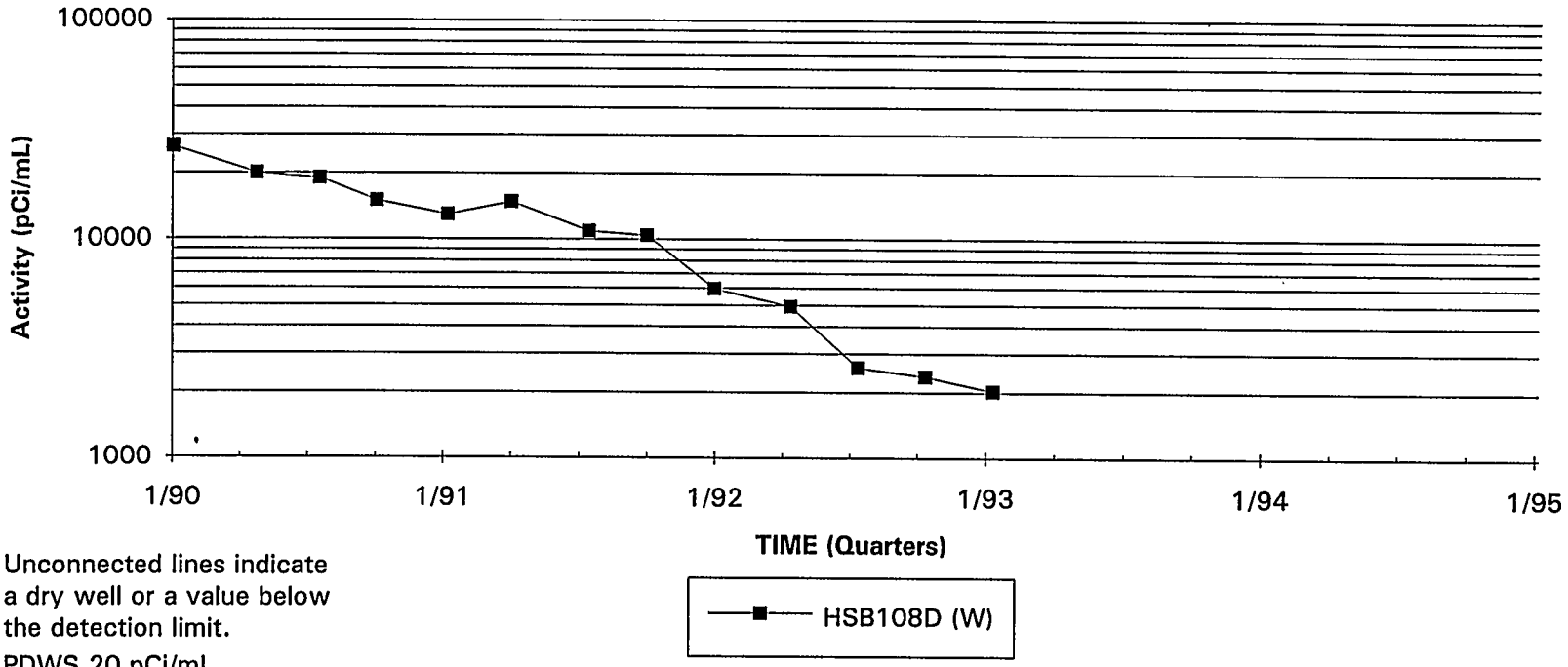


Unconnected lines indicate a dry well or a value below the detection limit.

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)

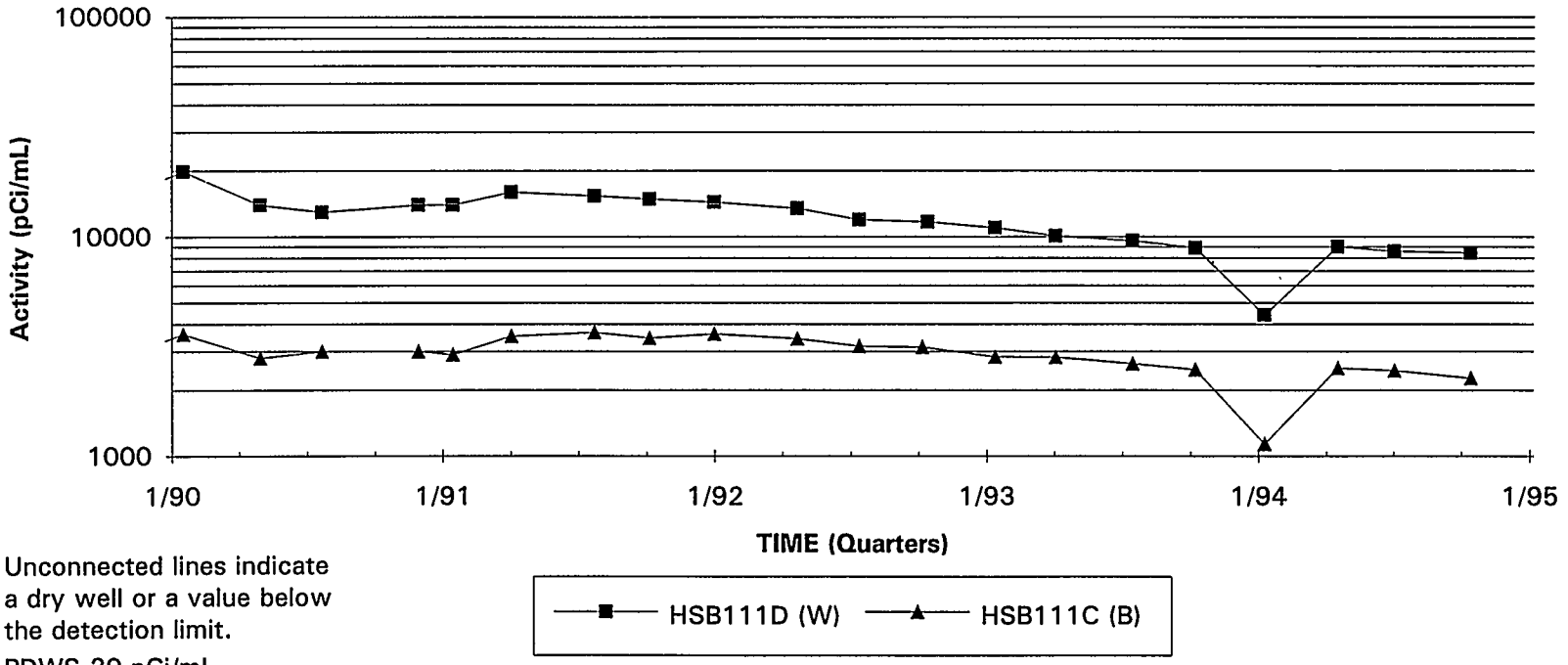
Tritium Activities
Well HSB108D



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 HSB111

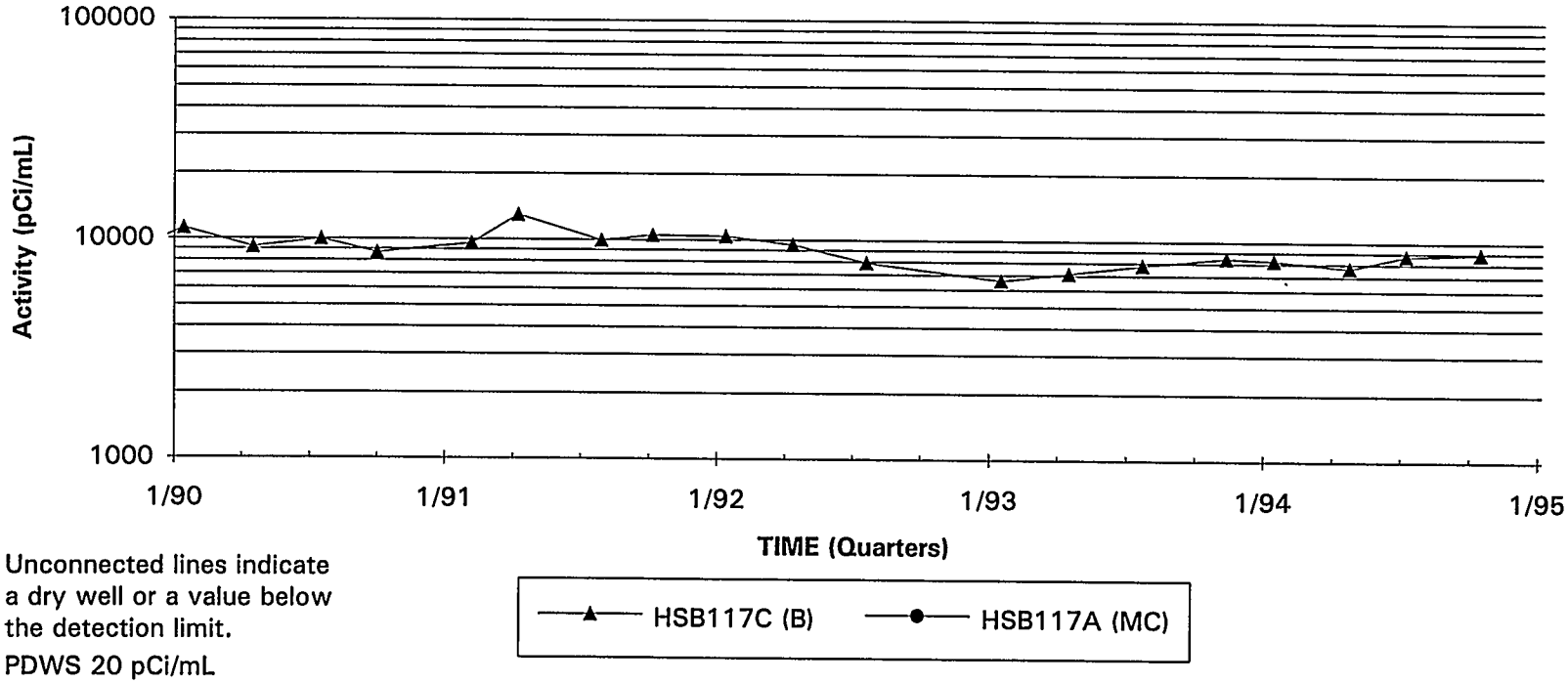


Unconnected lines indicate a dry well or a value below the detection limit.

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)

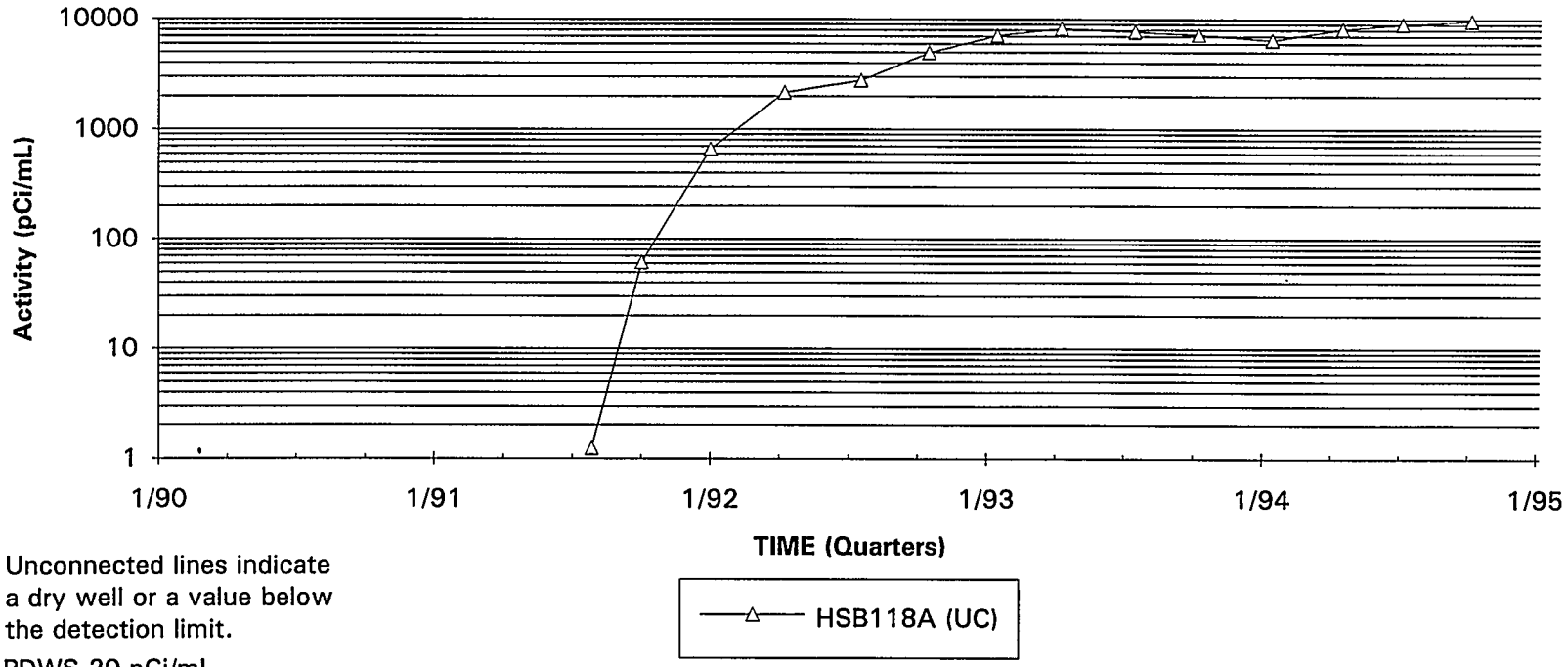
Tritium Activities
Well Cluster HSB117



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 HSB118A

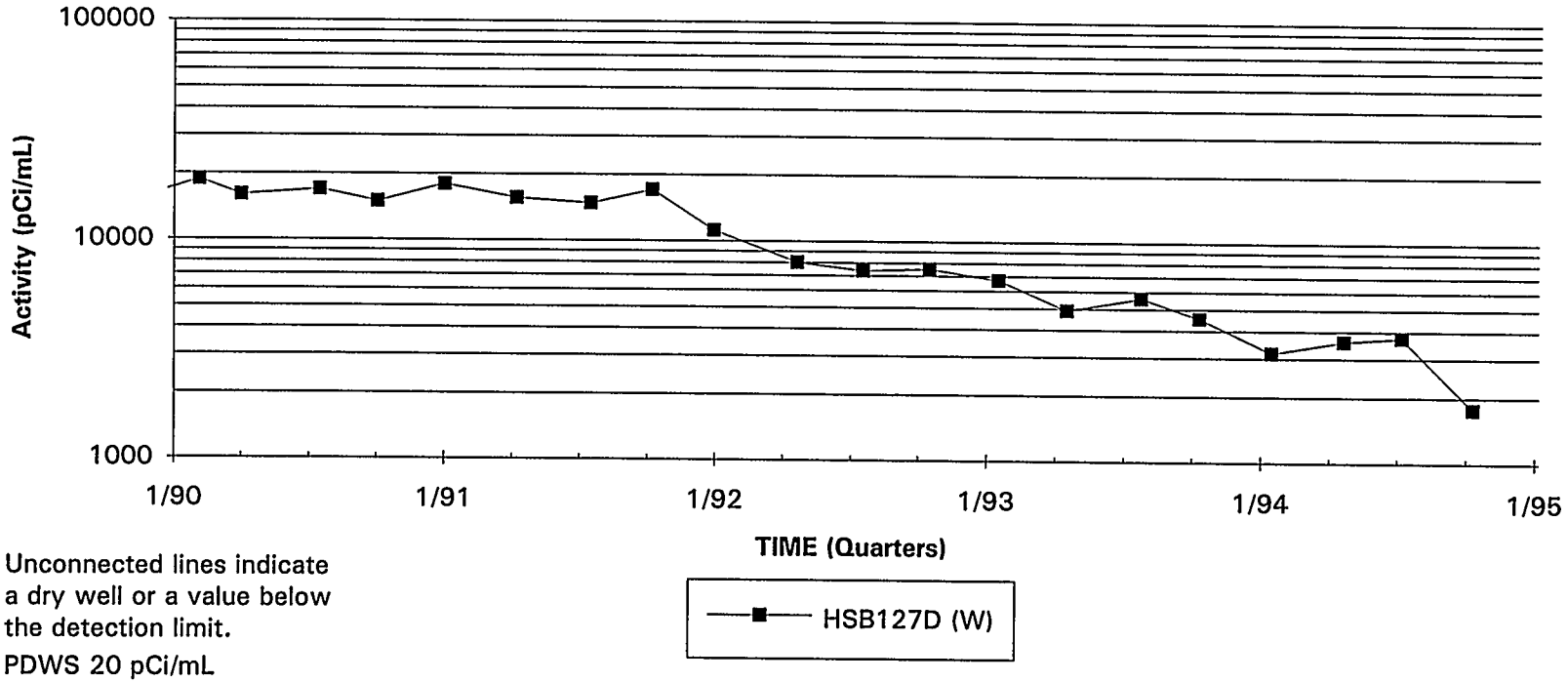


Unconnected lines indicate a dry well or a value below the detection limit.

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)

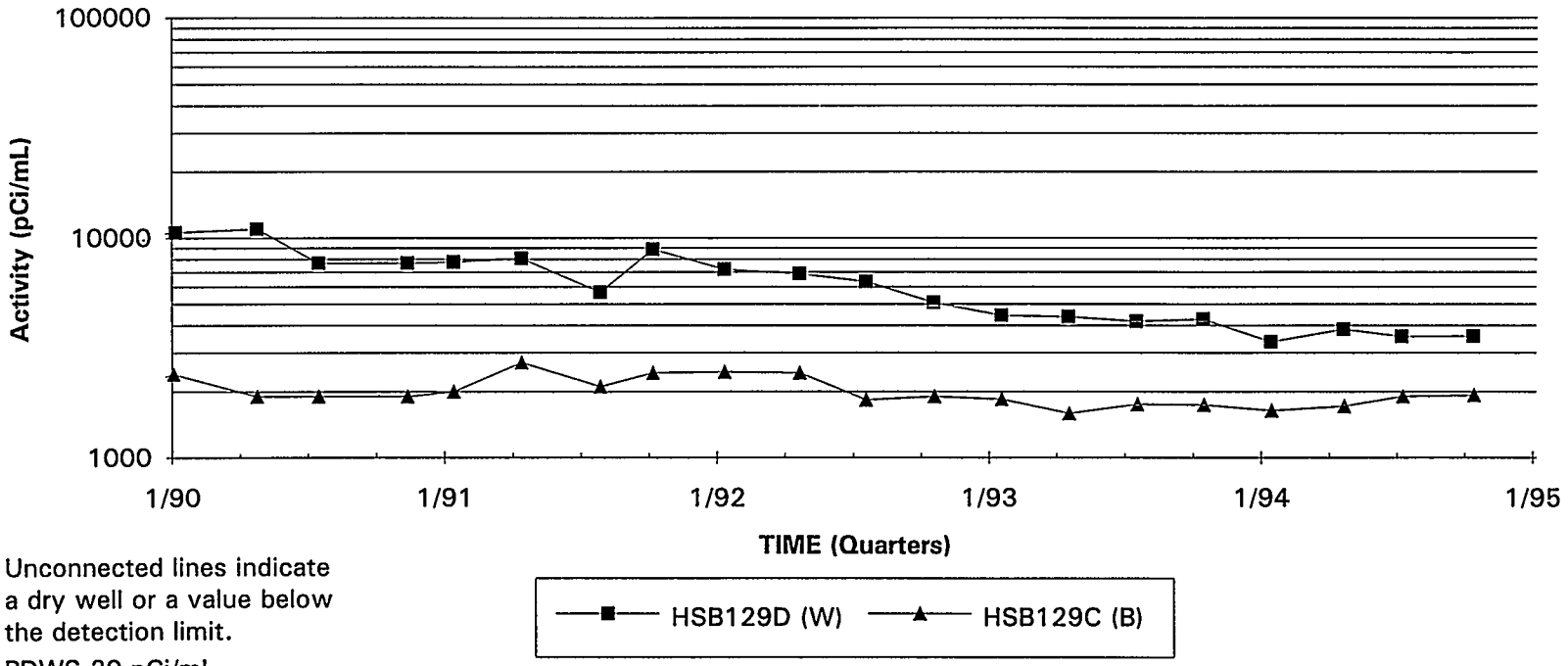
Tritium Activities
Well HSB127D



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 HSB129

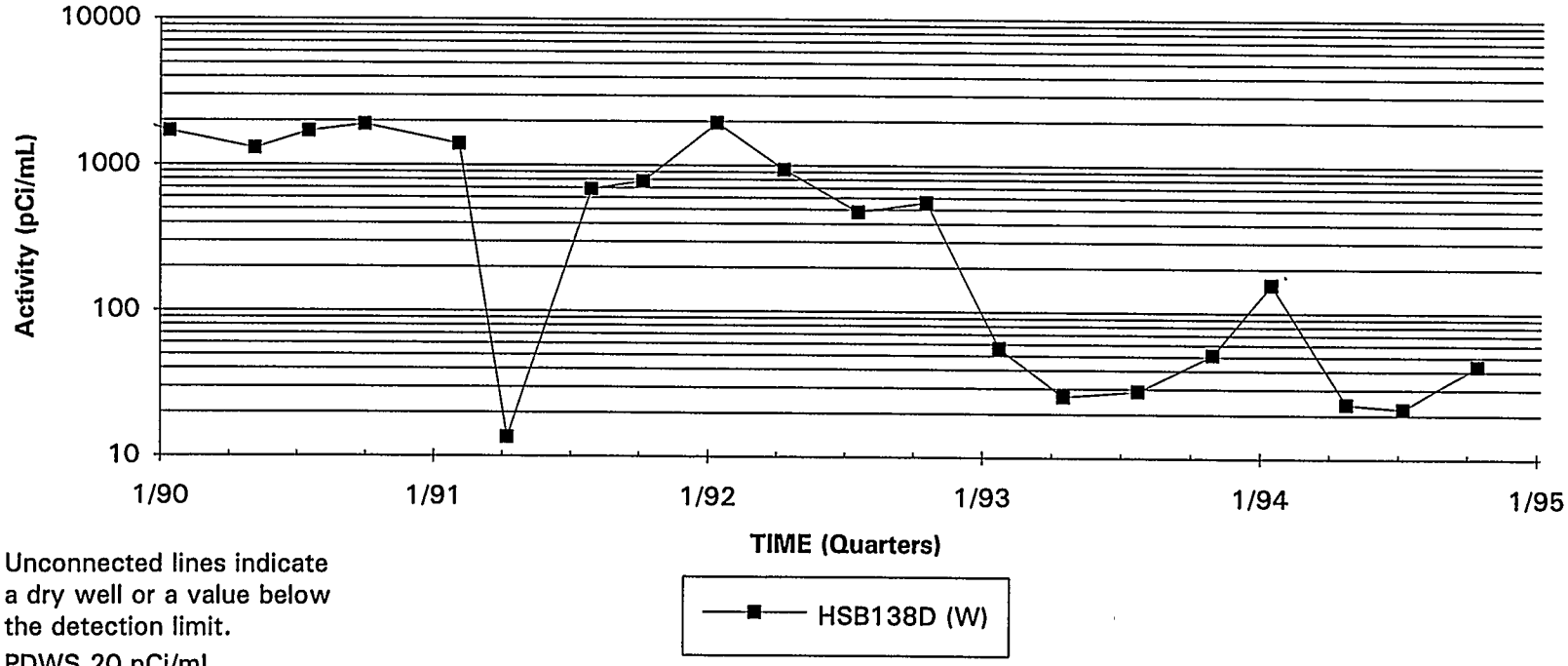


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB138D

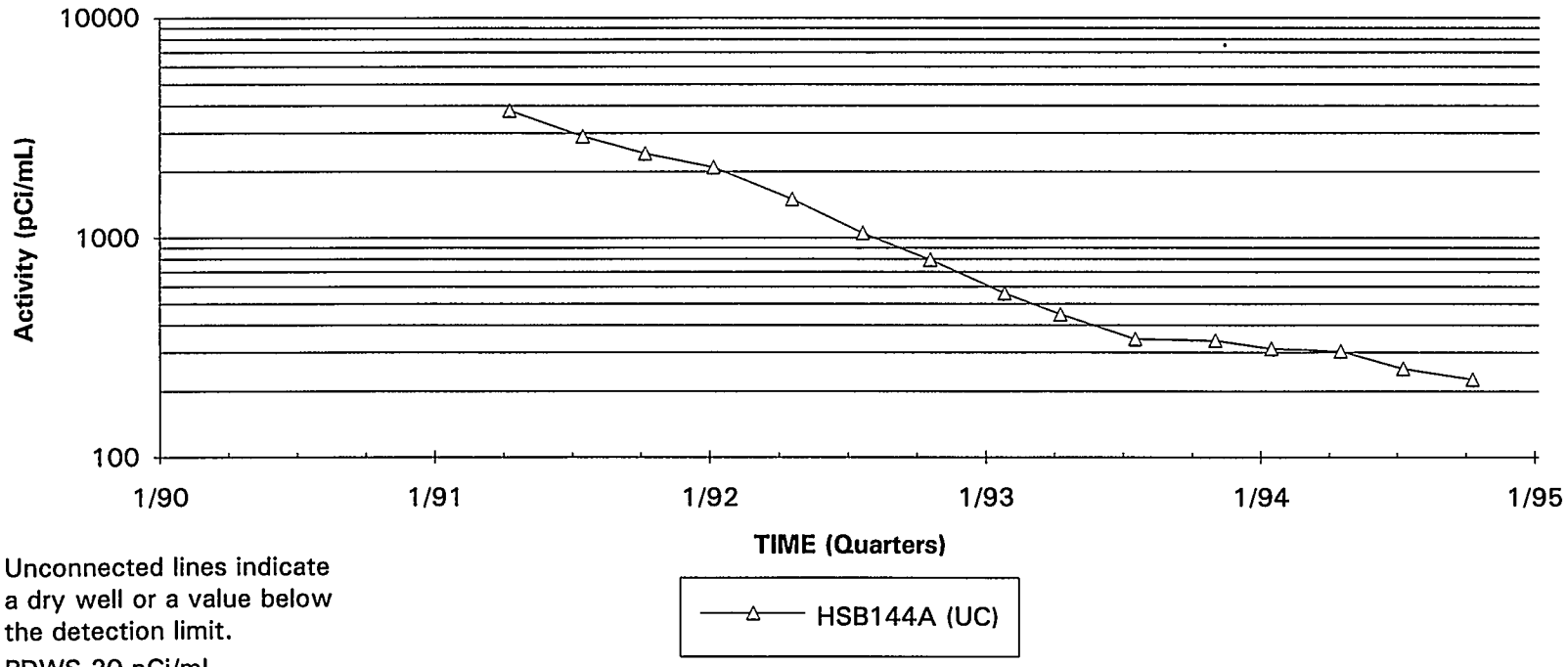


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB144A

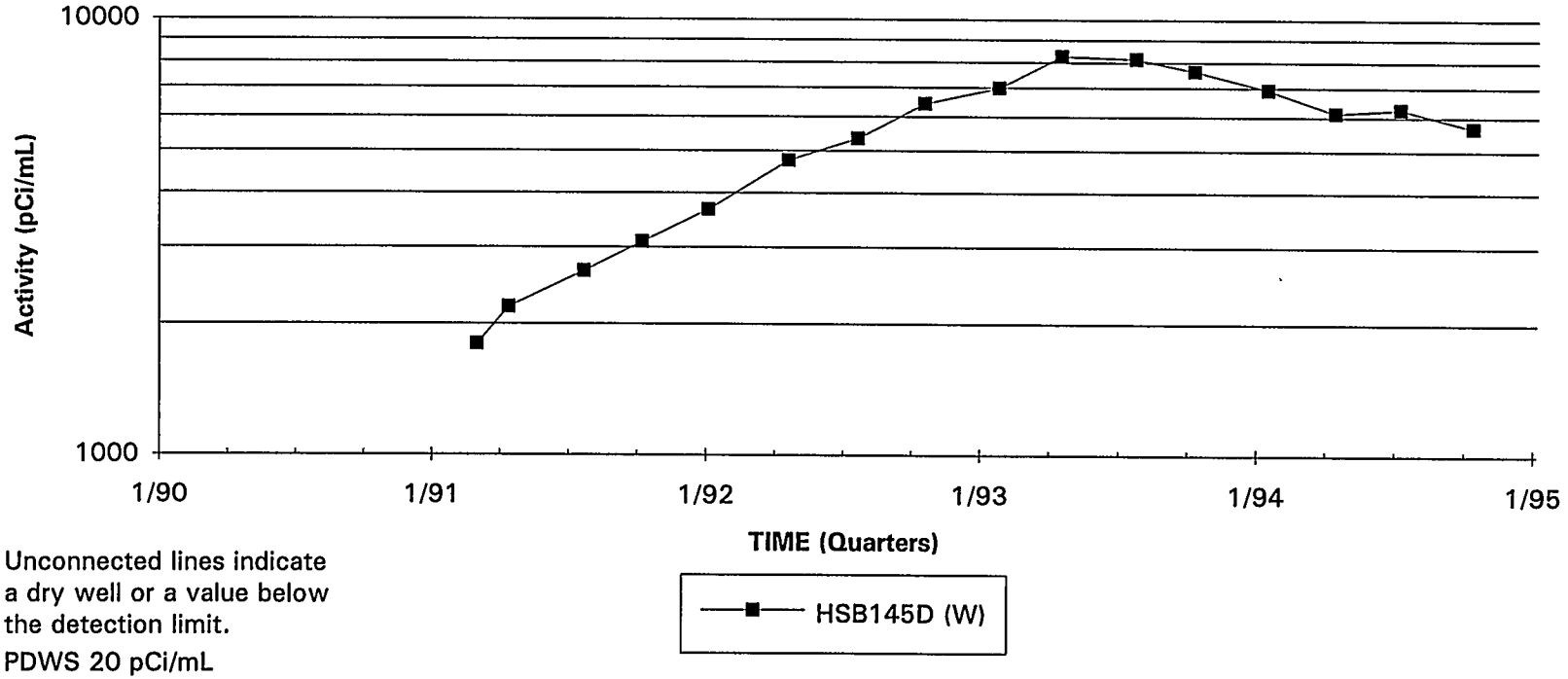


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB145D

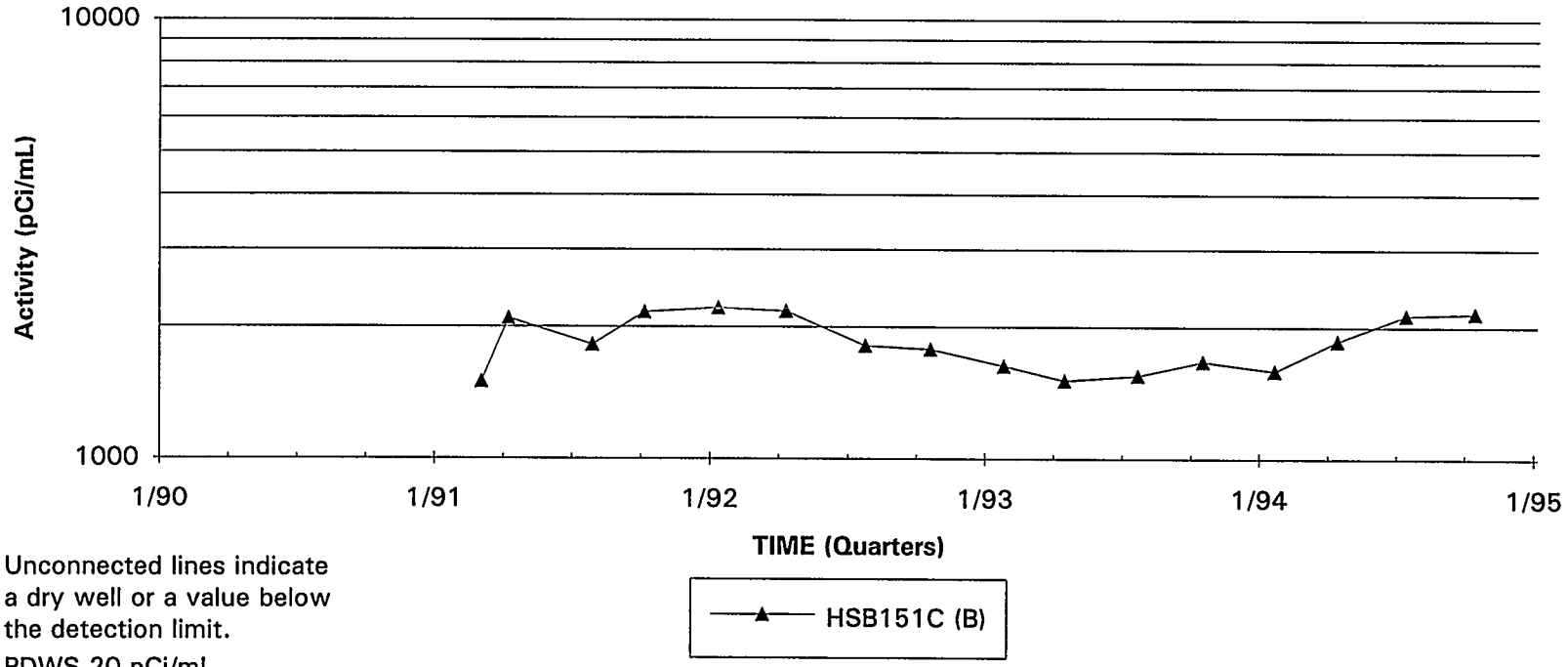


Unconnected lines indicate a dry well or a value below the detection limit.

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 HSB151C



Unconnected lines indicate a dry well or a value below the detection limit.

PDWS 20 pCi/mL

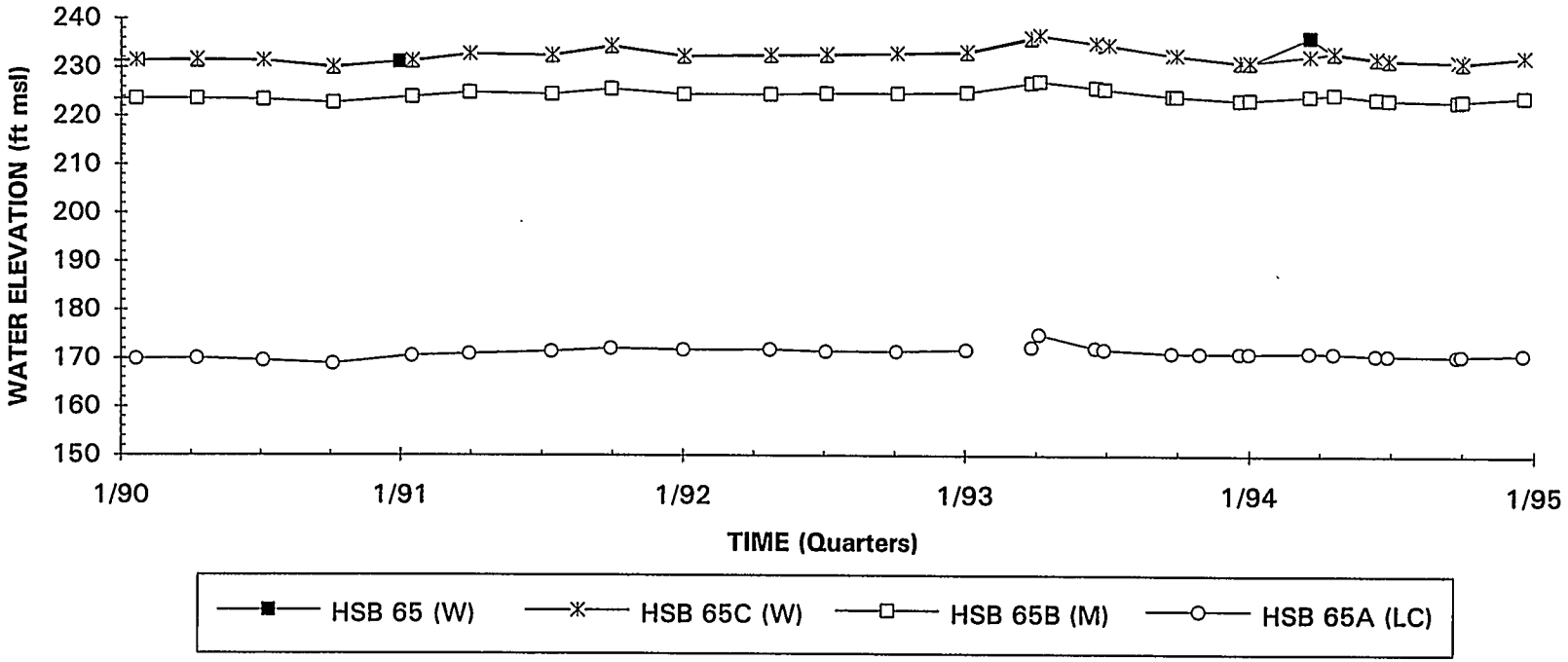
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Appendix G

Hydrographs

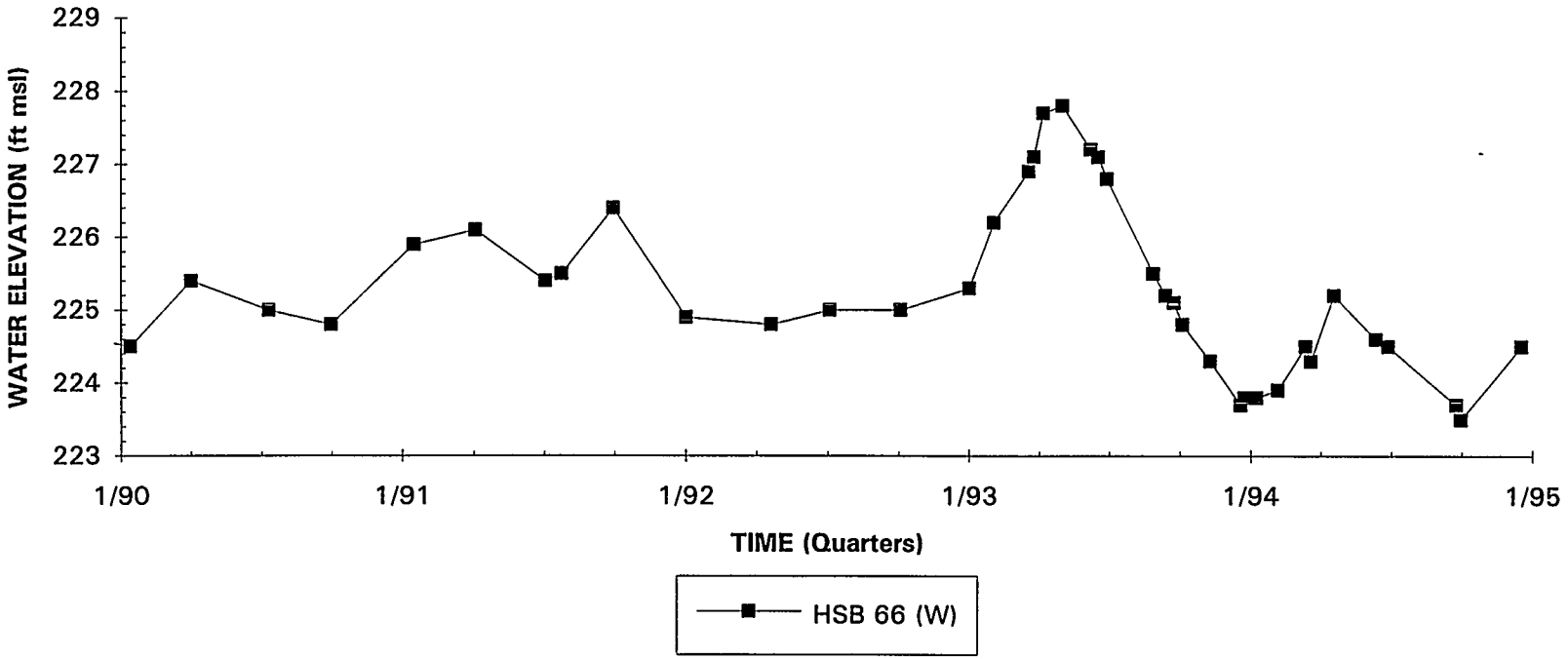
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Hydrograph
Well Cluster HSB 65

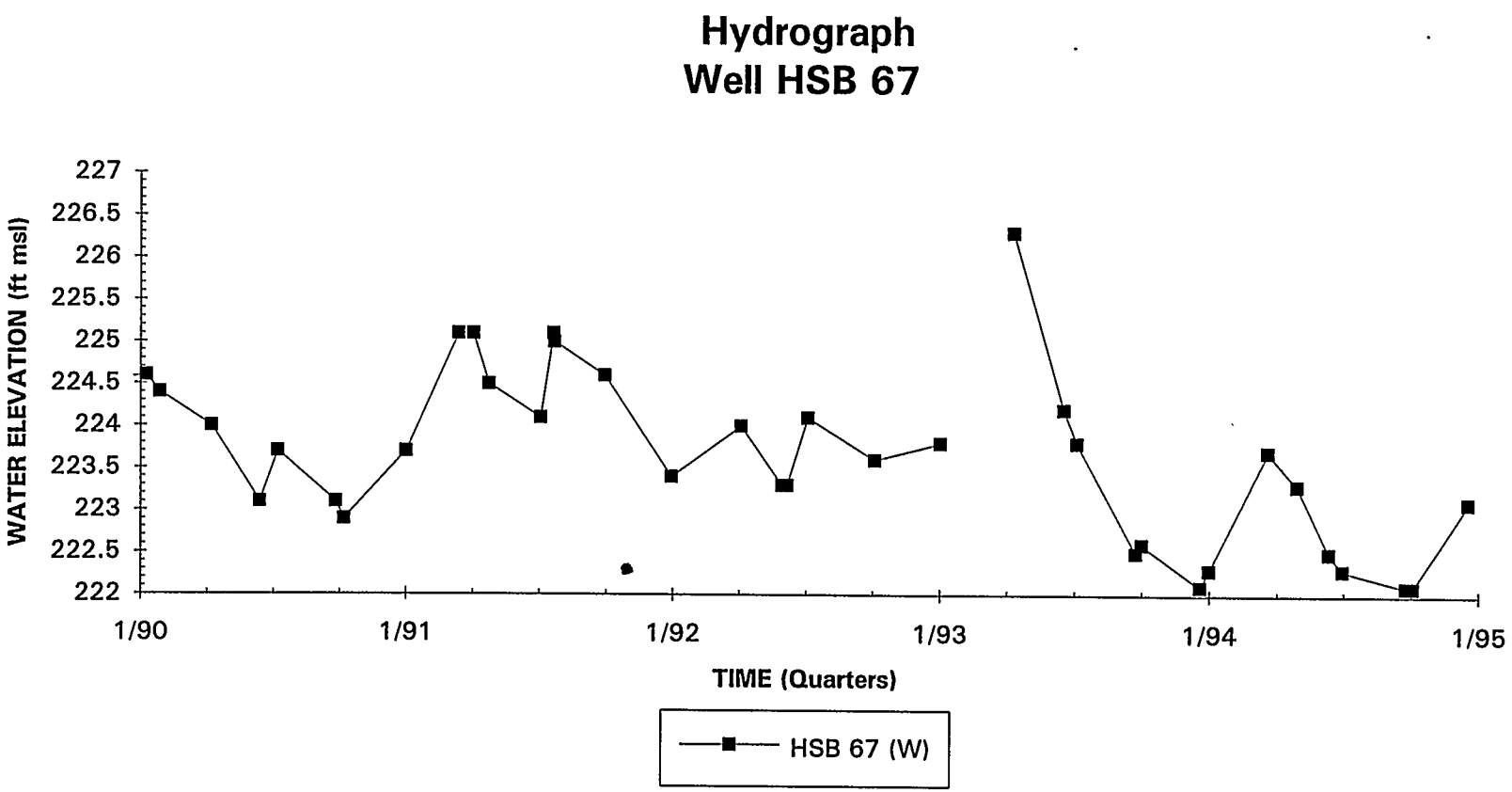


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB 66

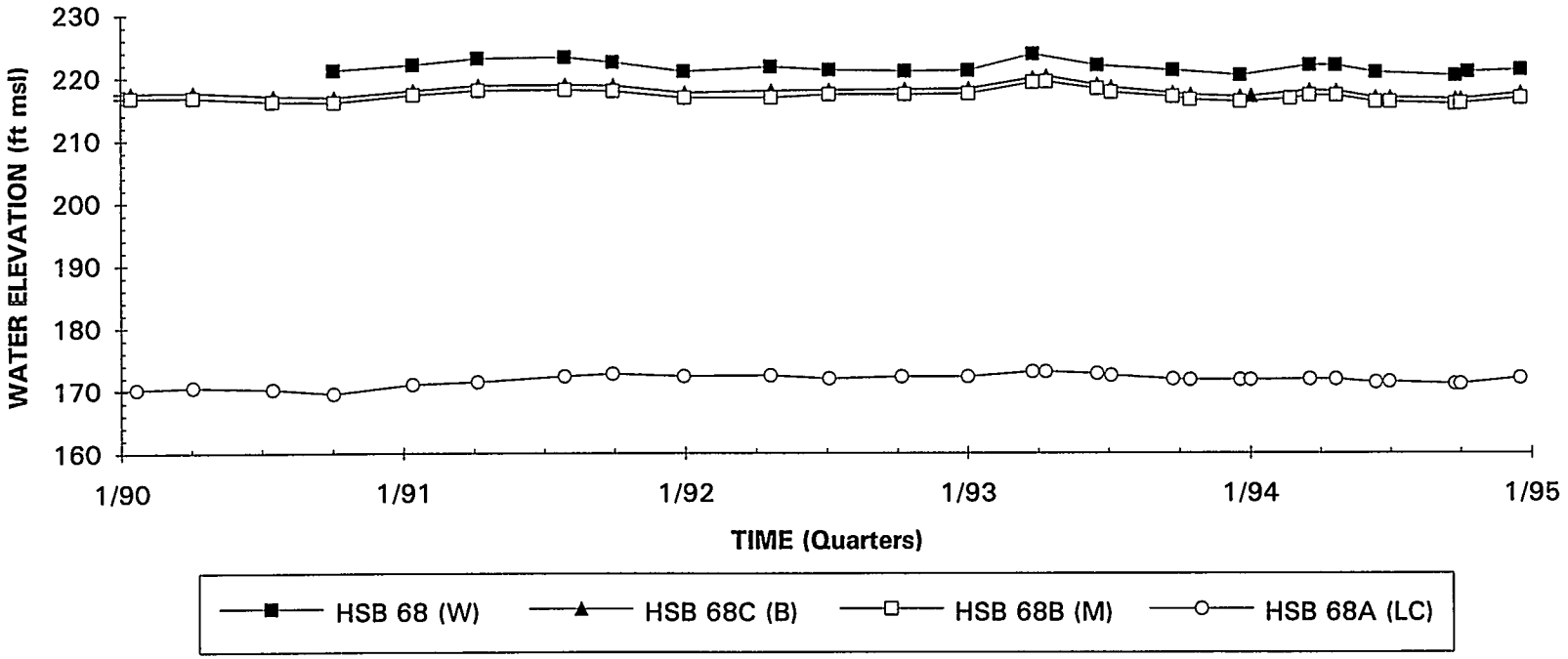


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



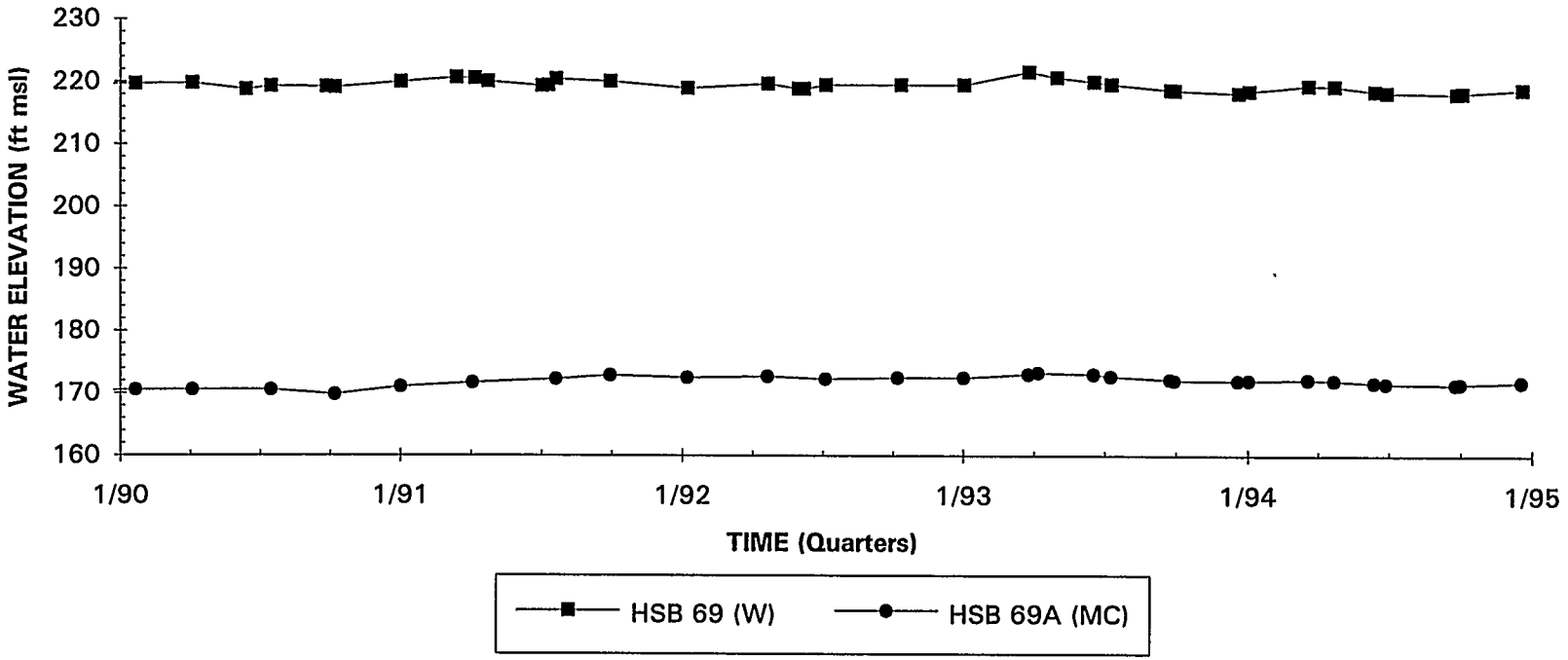
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 68



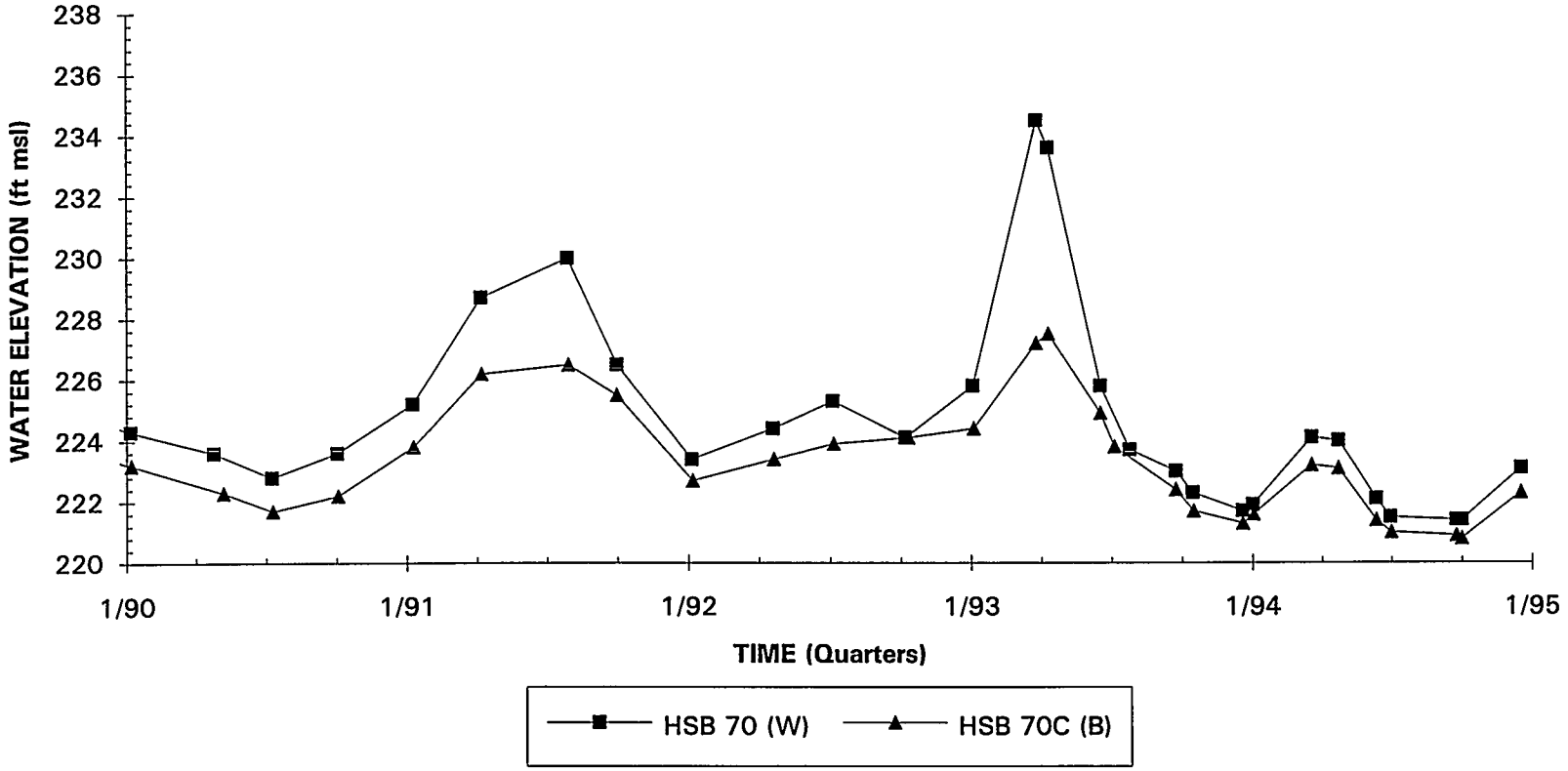
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 69



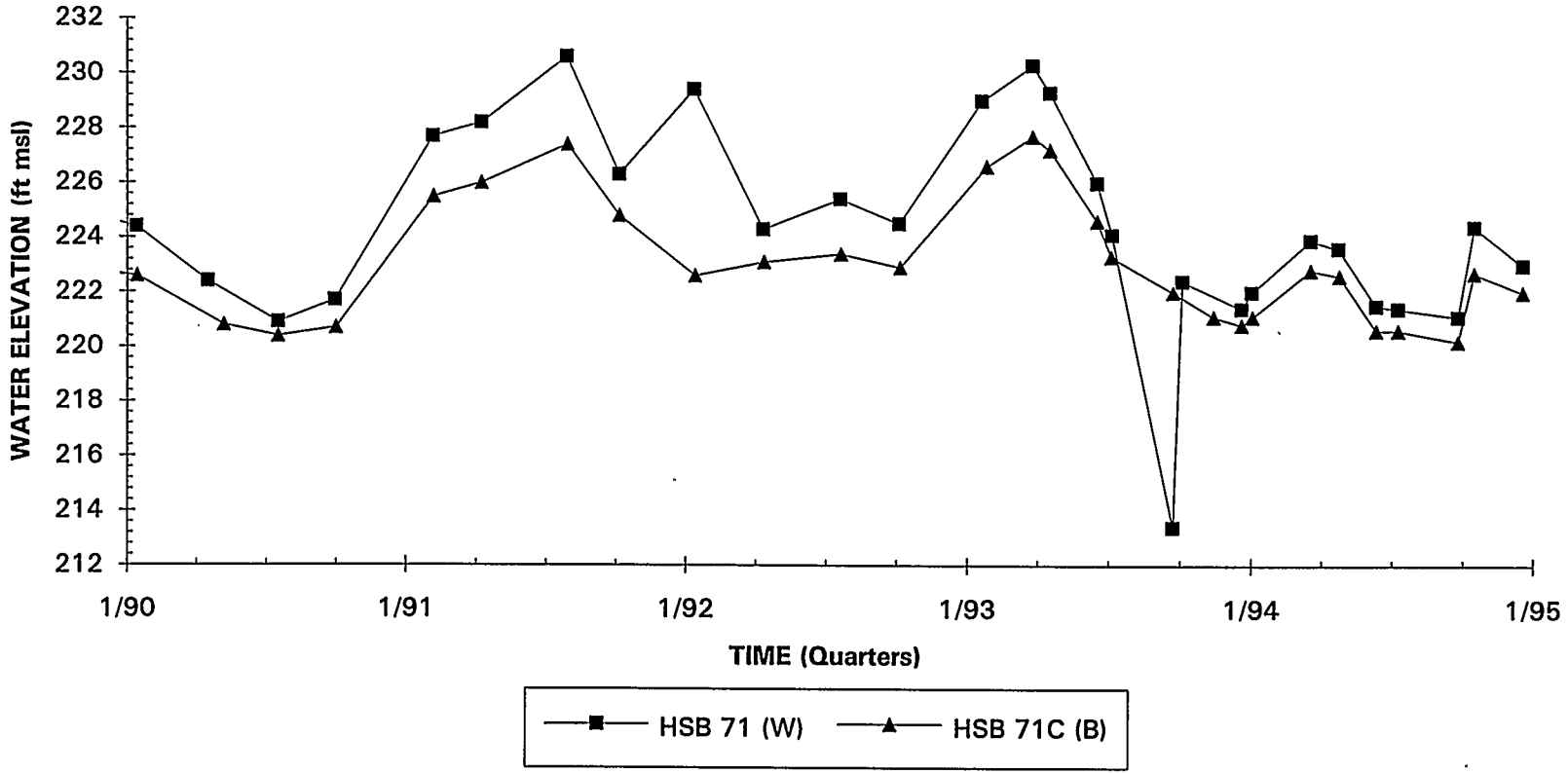
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 70



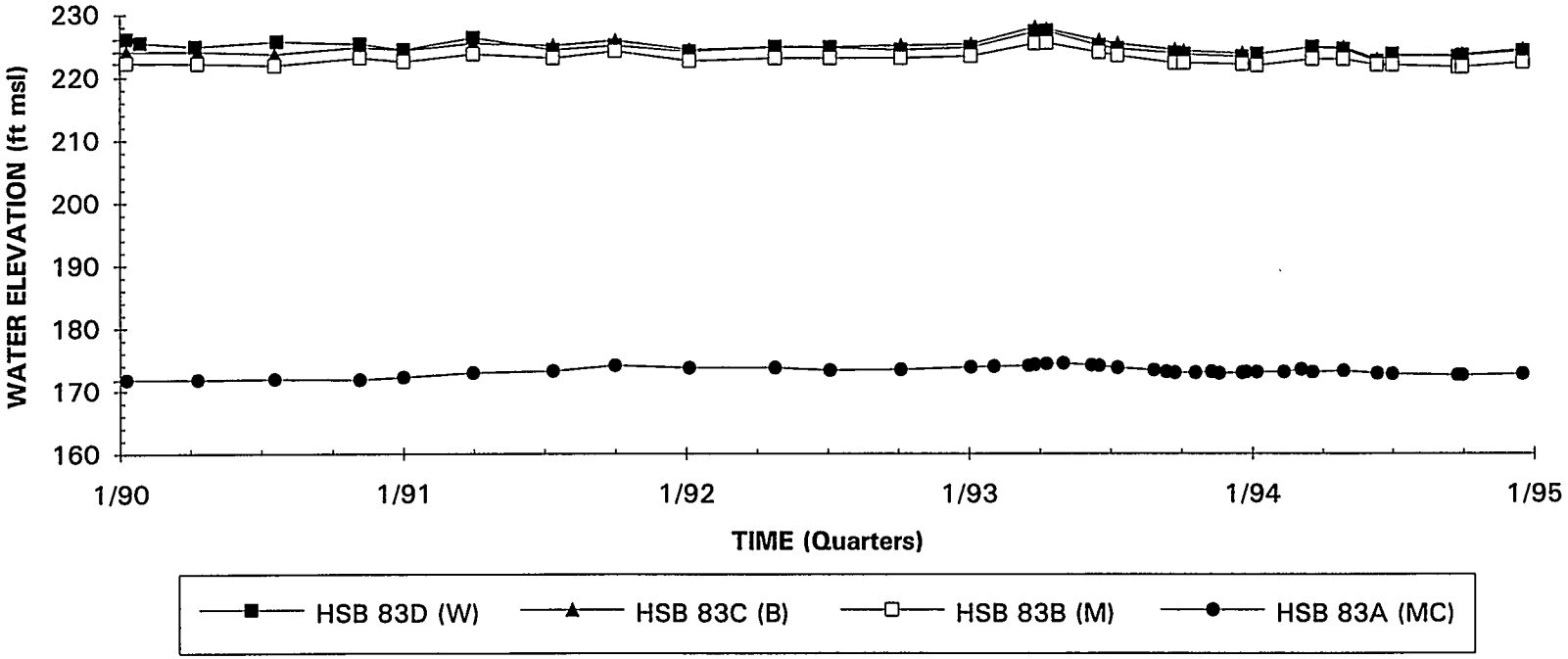
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 71



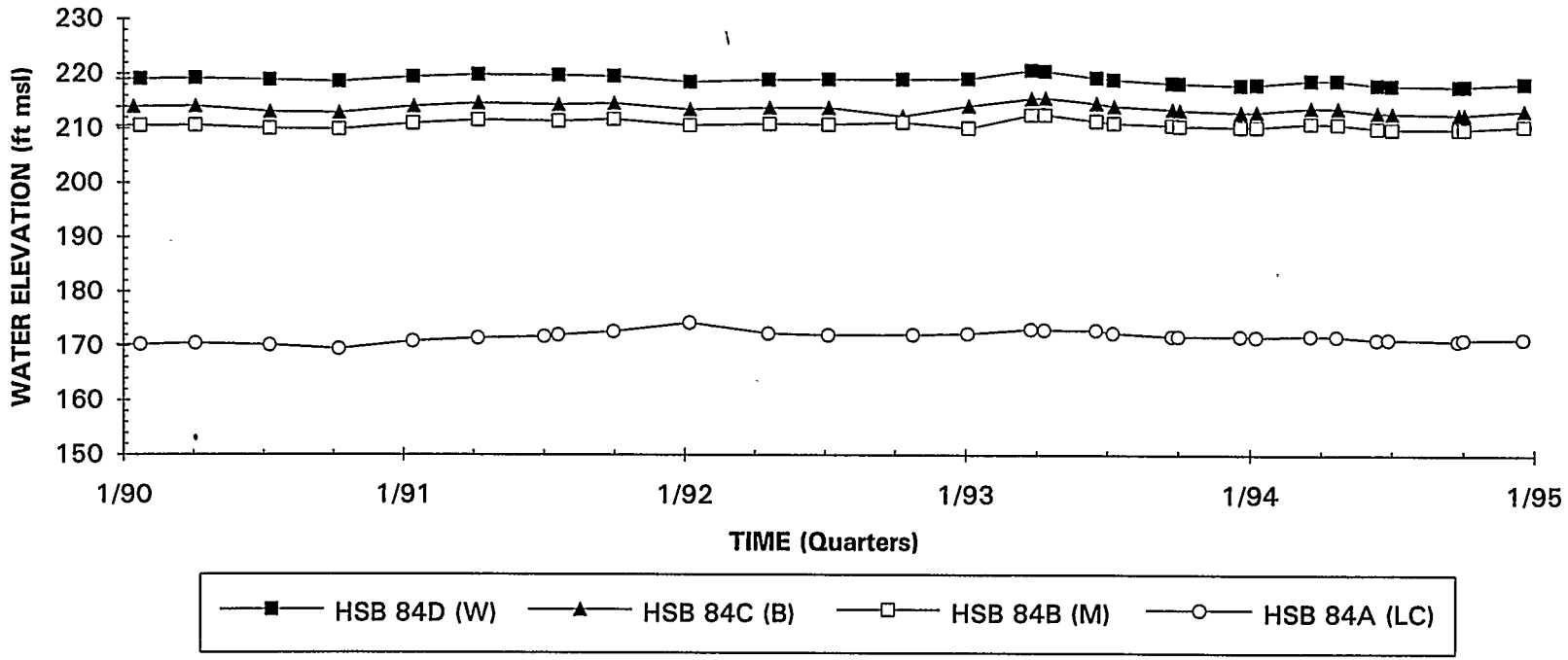
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 83



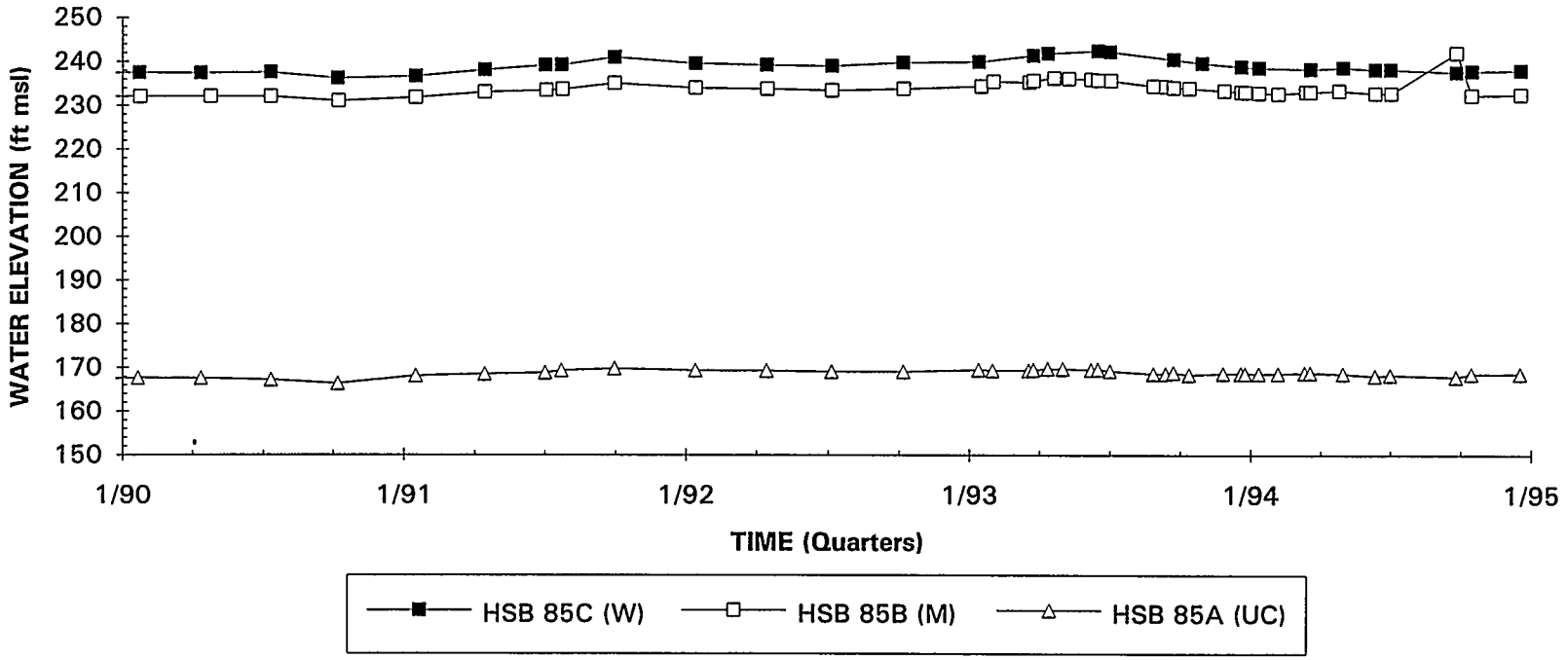
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 84



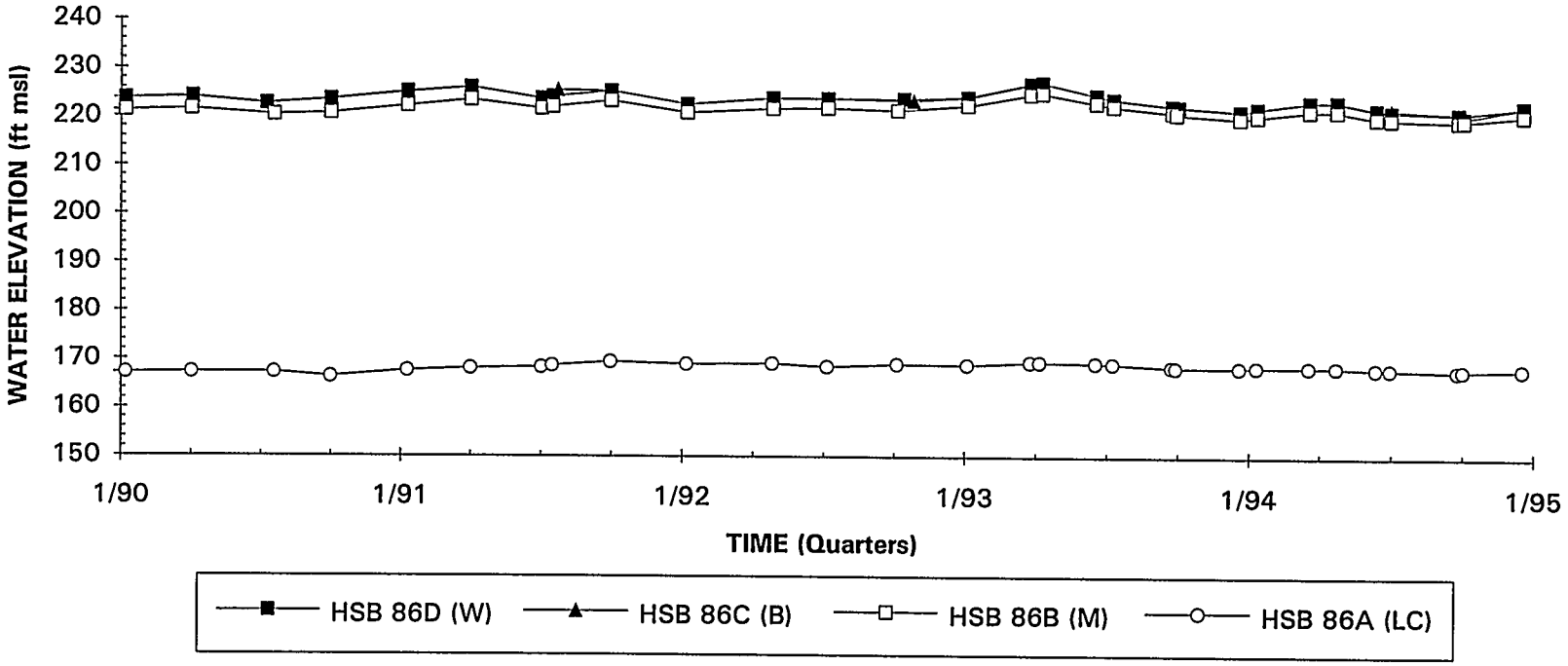
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 85



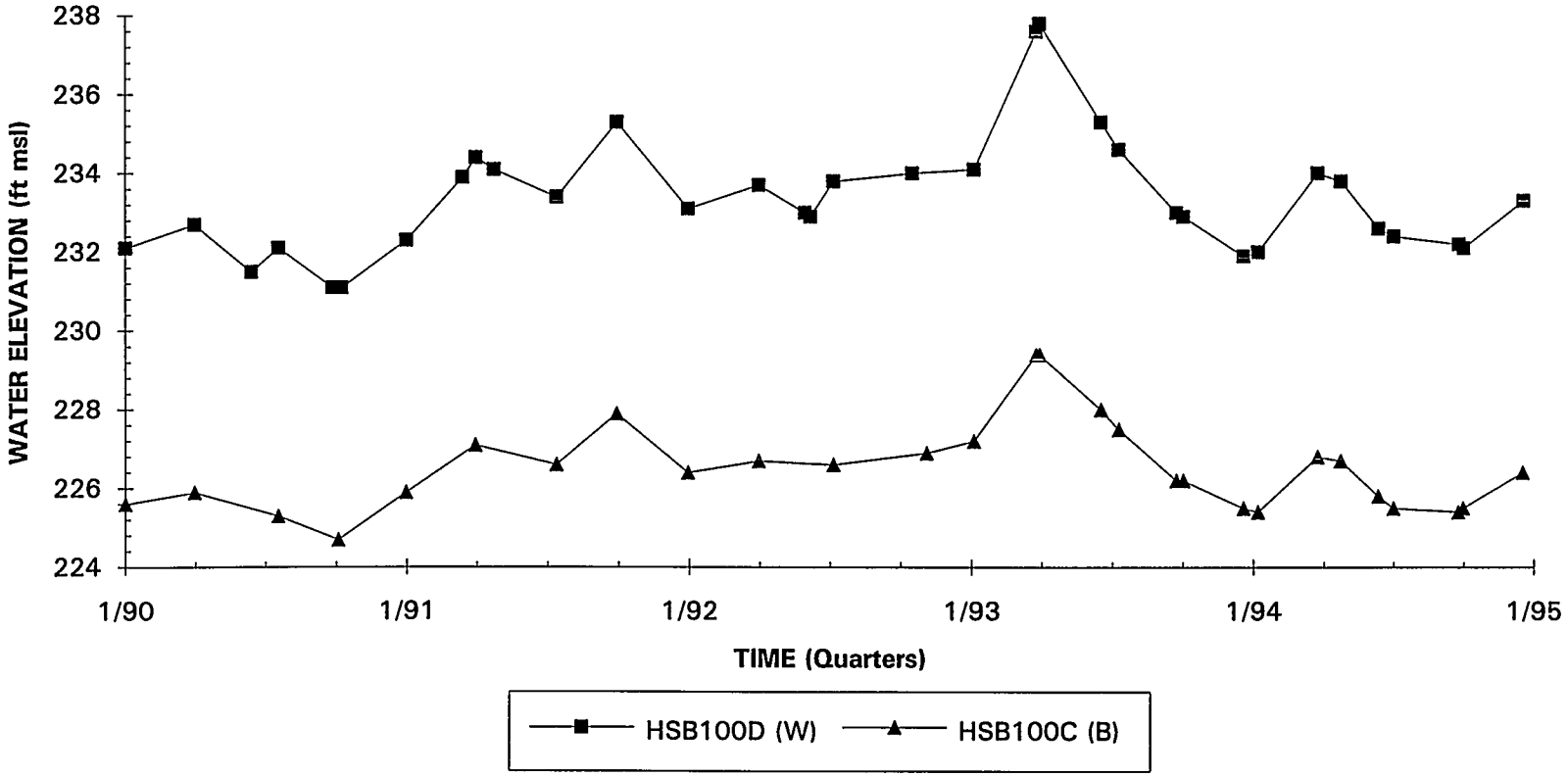
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB 86



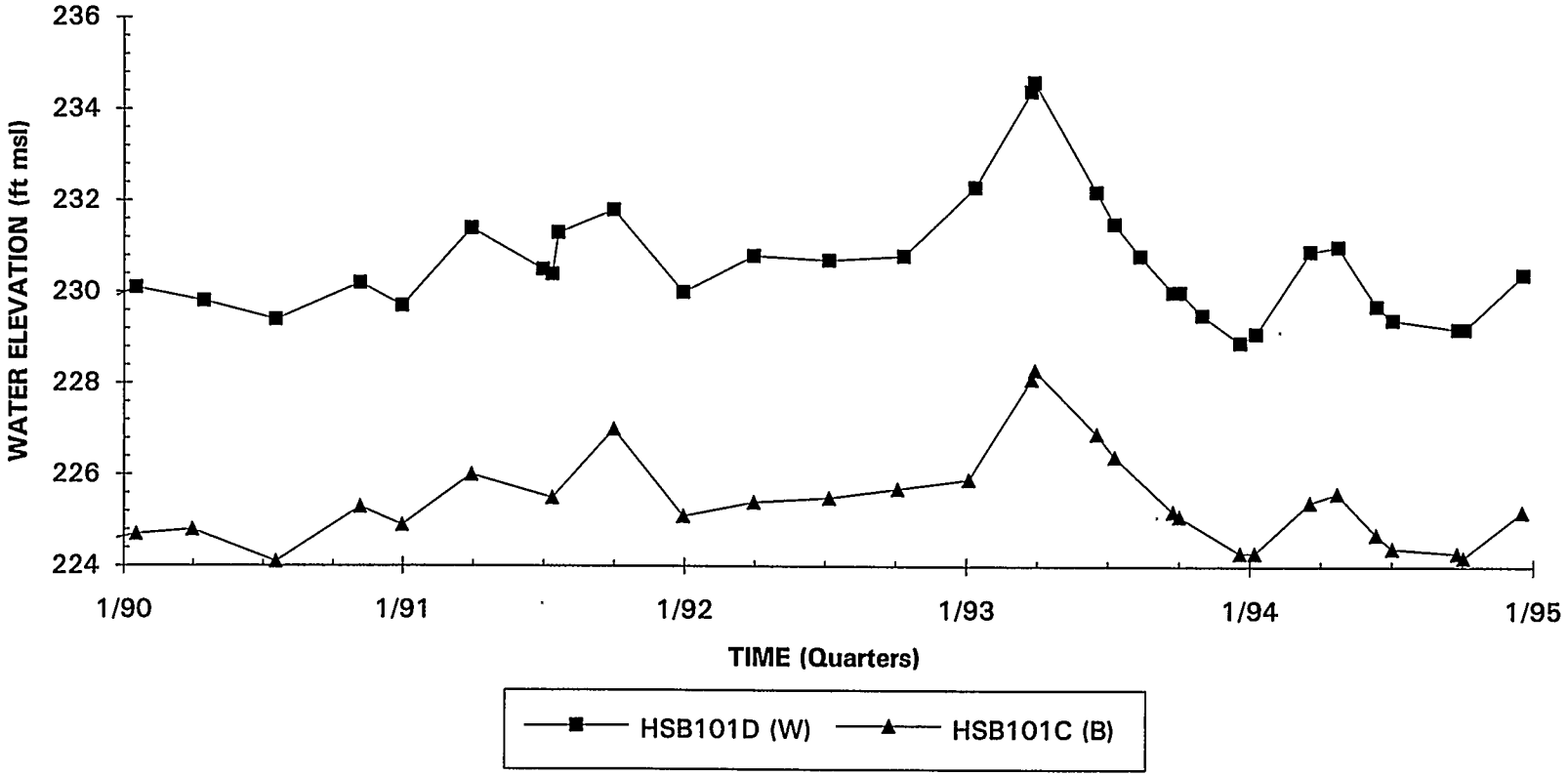
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB100



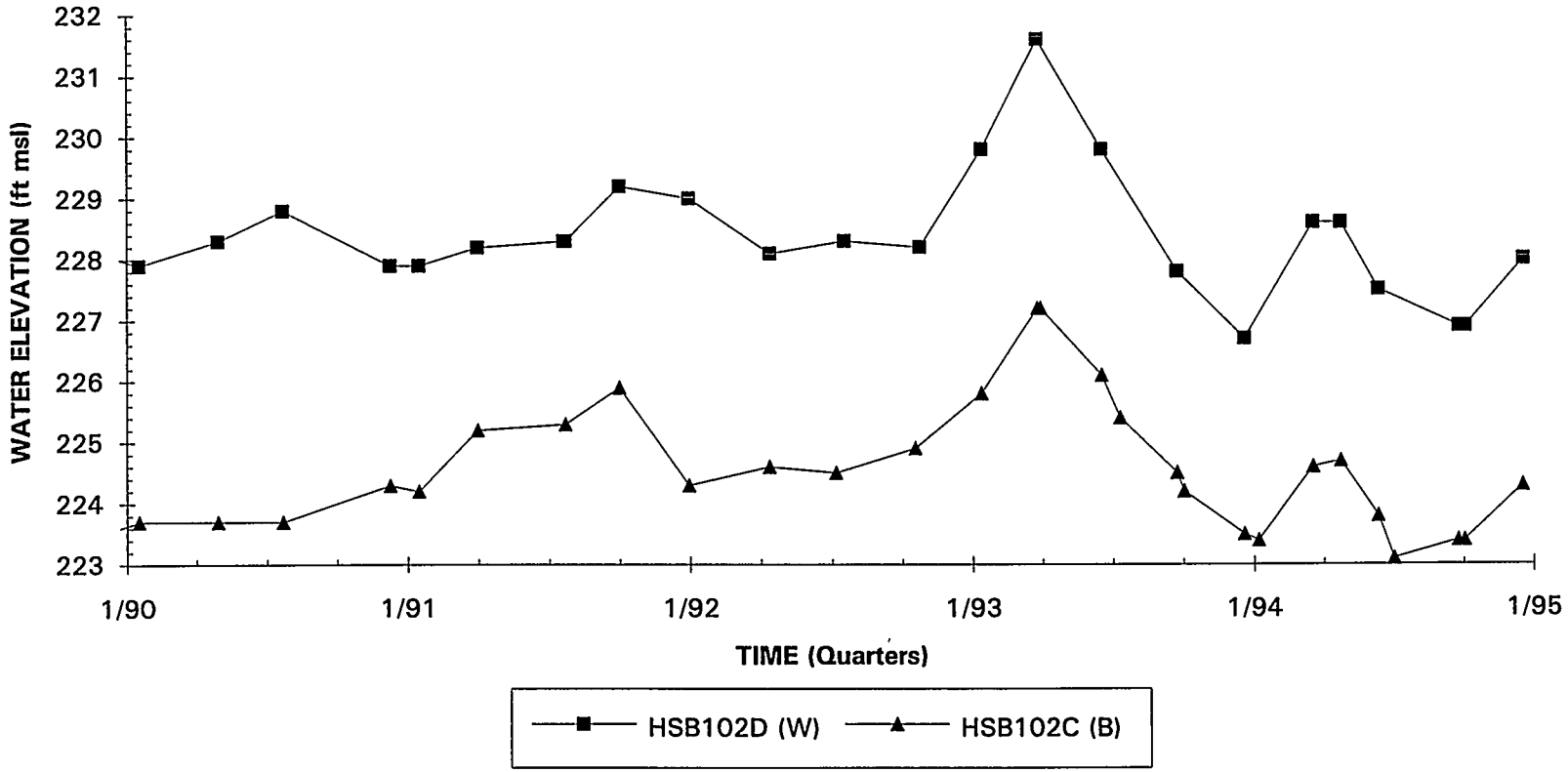
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB101



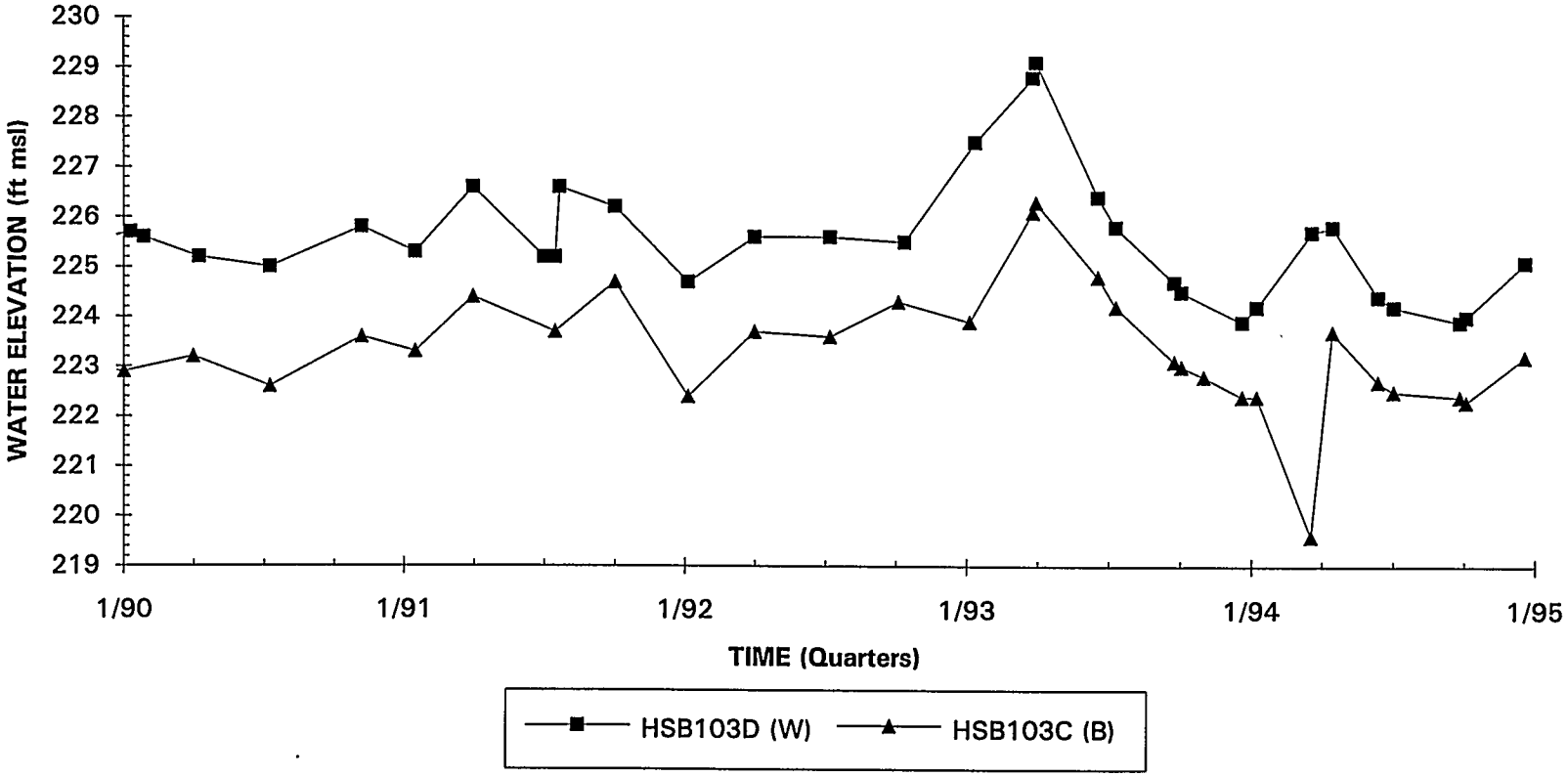
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB102



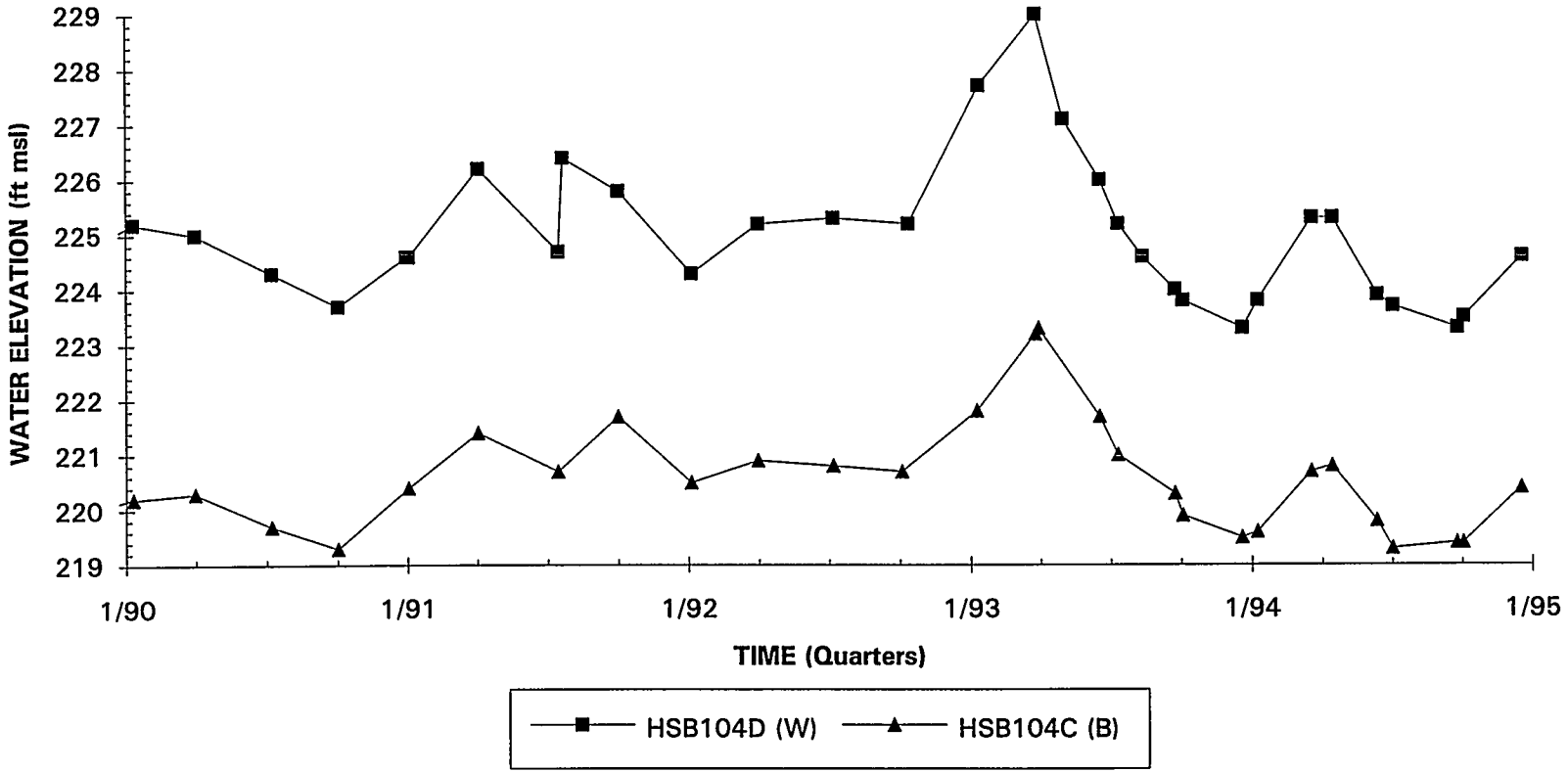
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB103



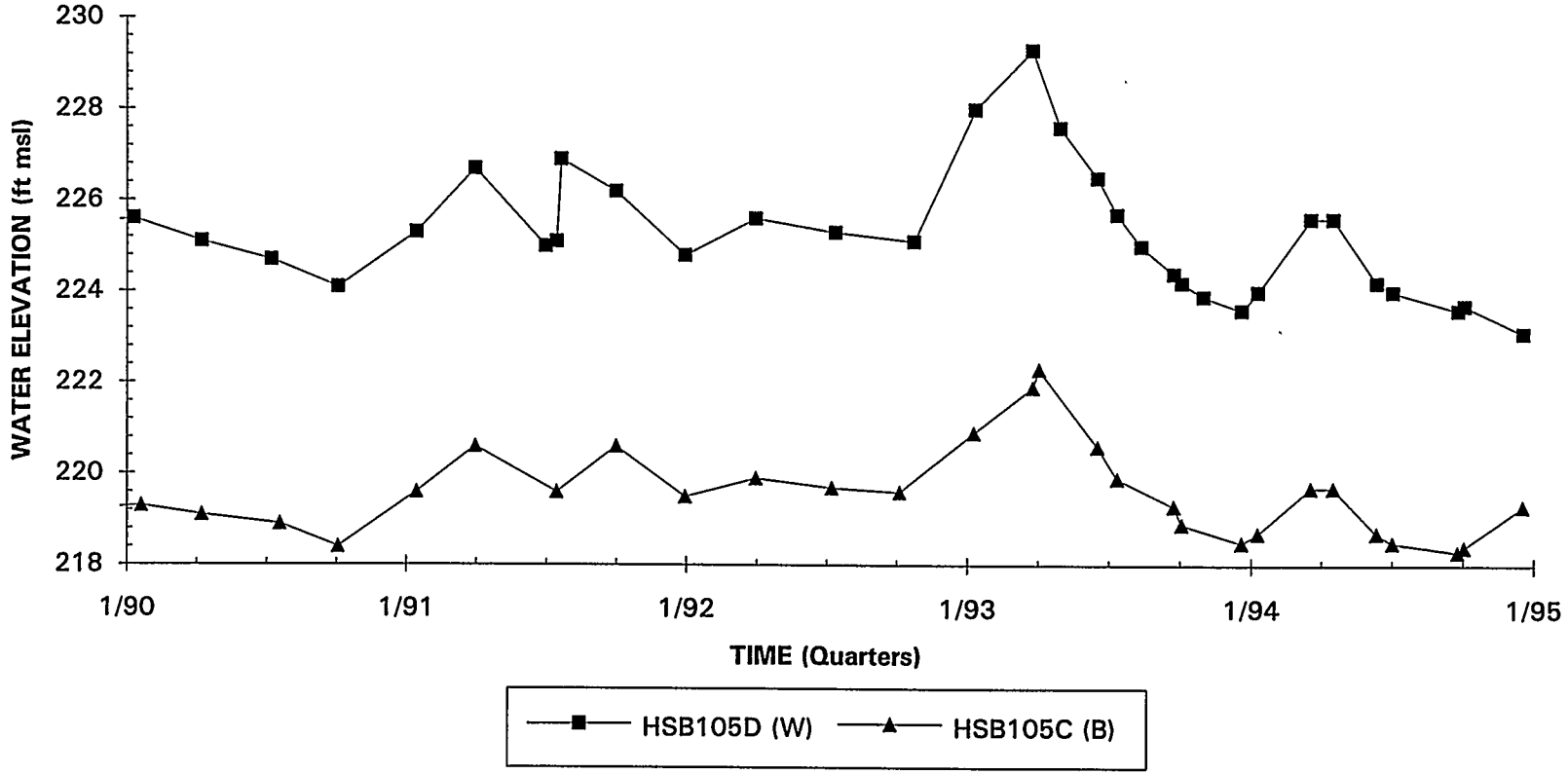
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB104



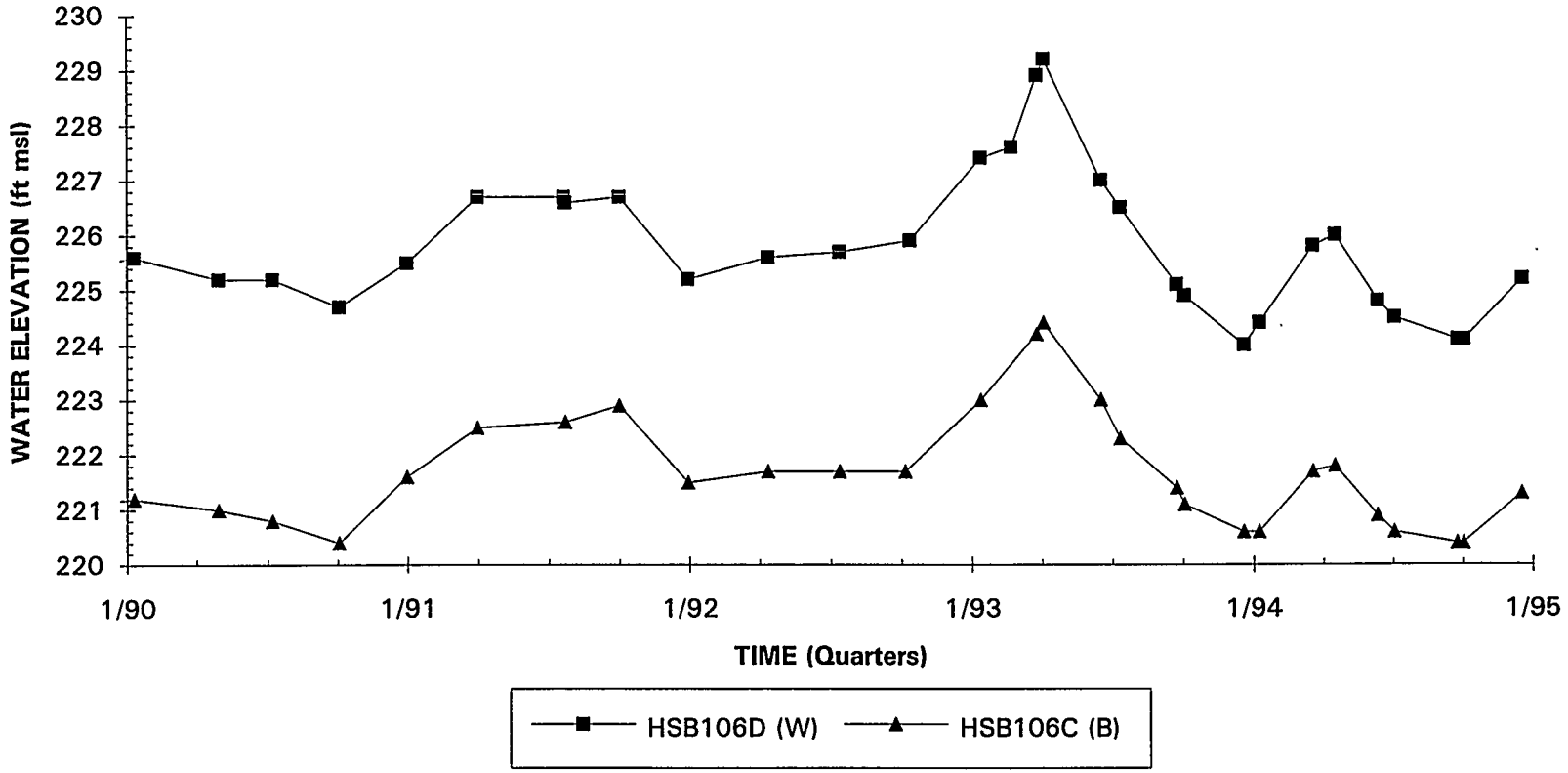
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB105



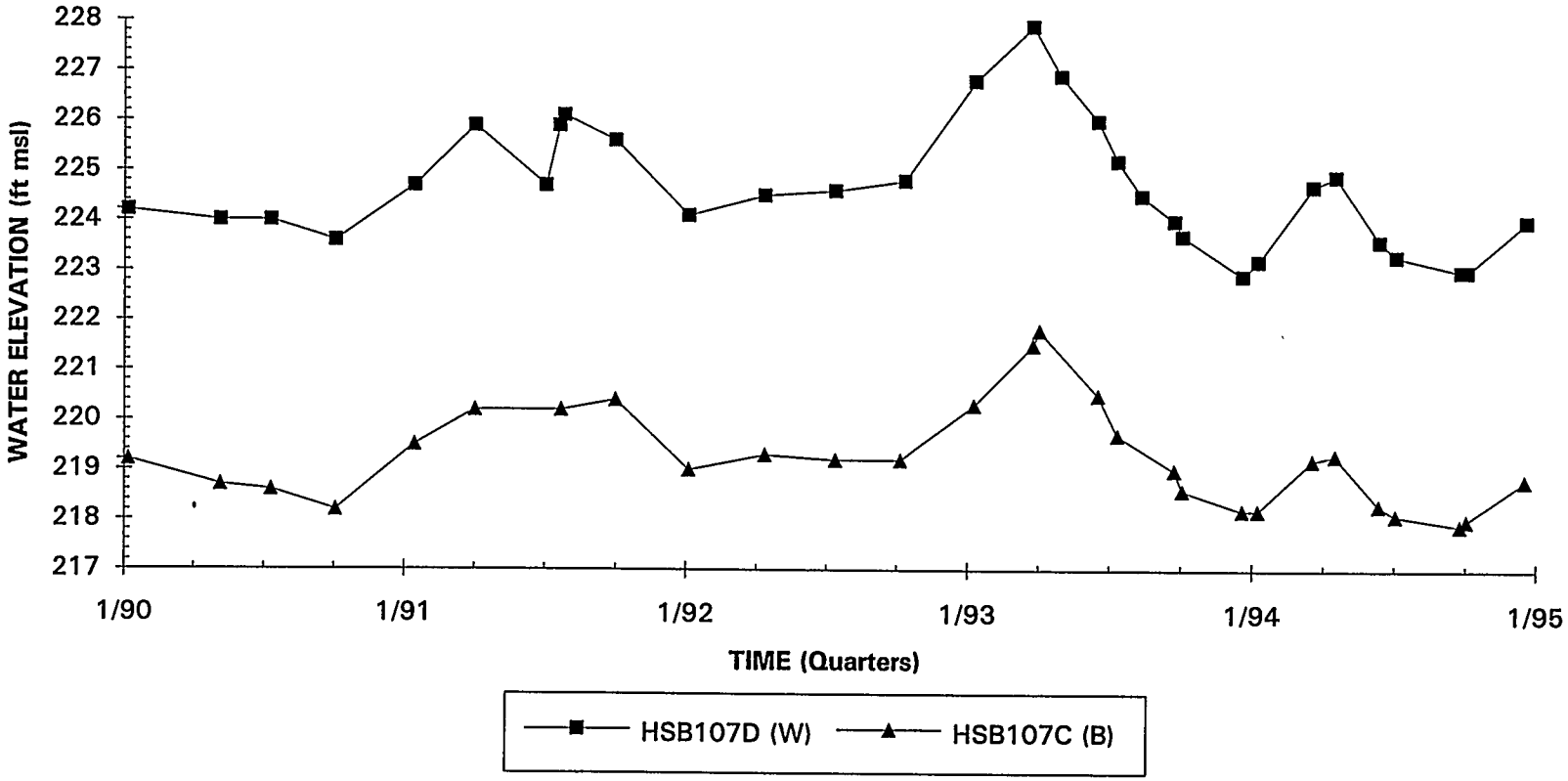
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB106



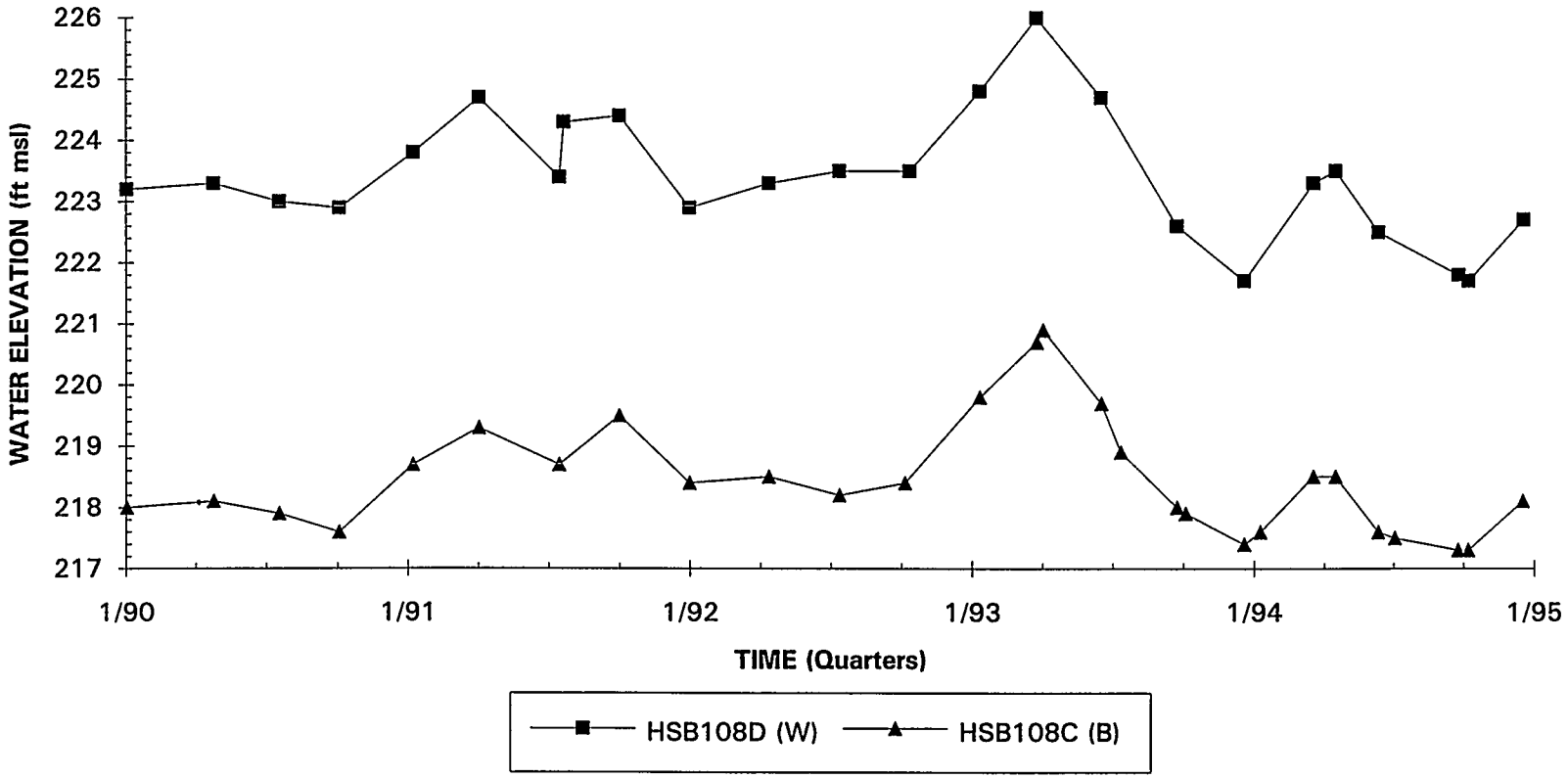
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB107



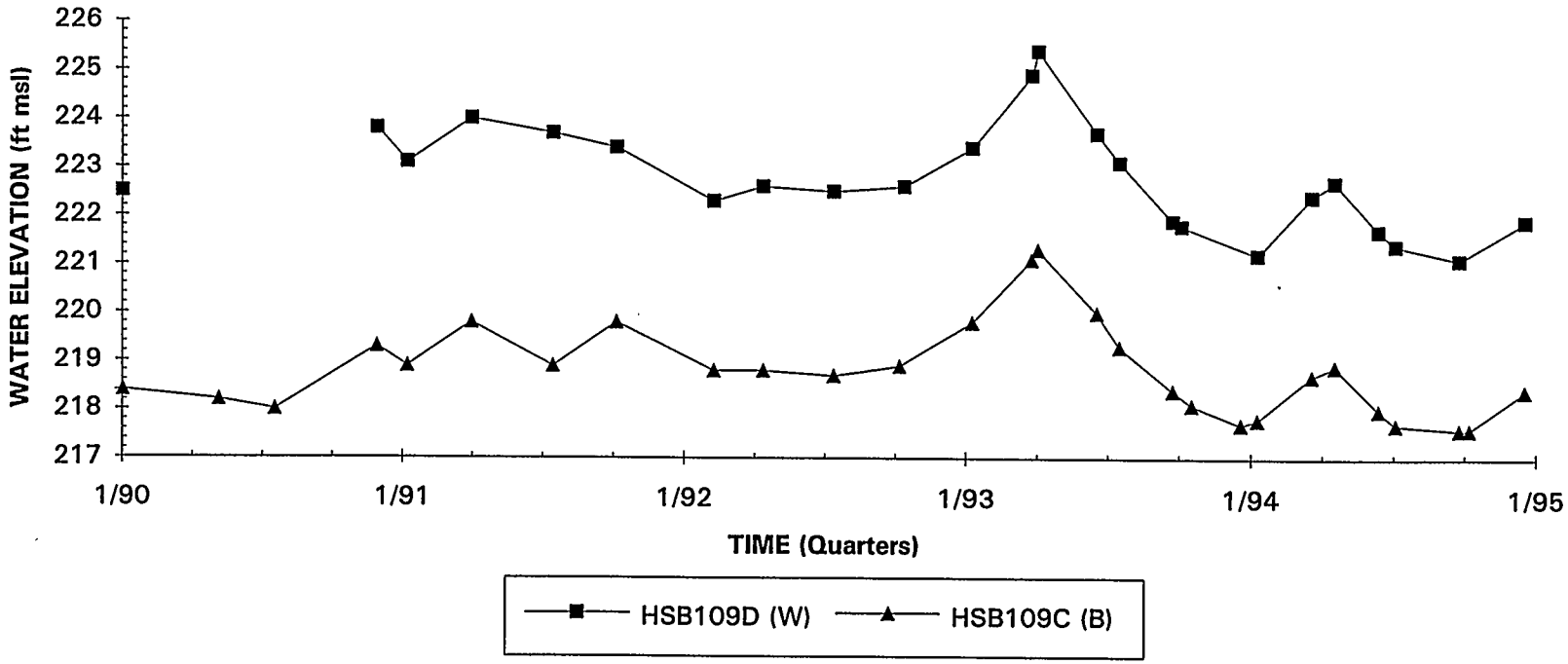
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB108



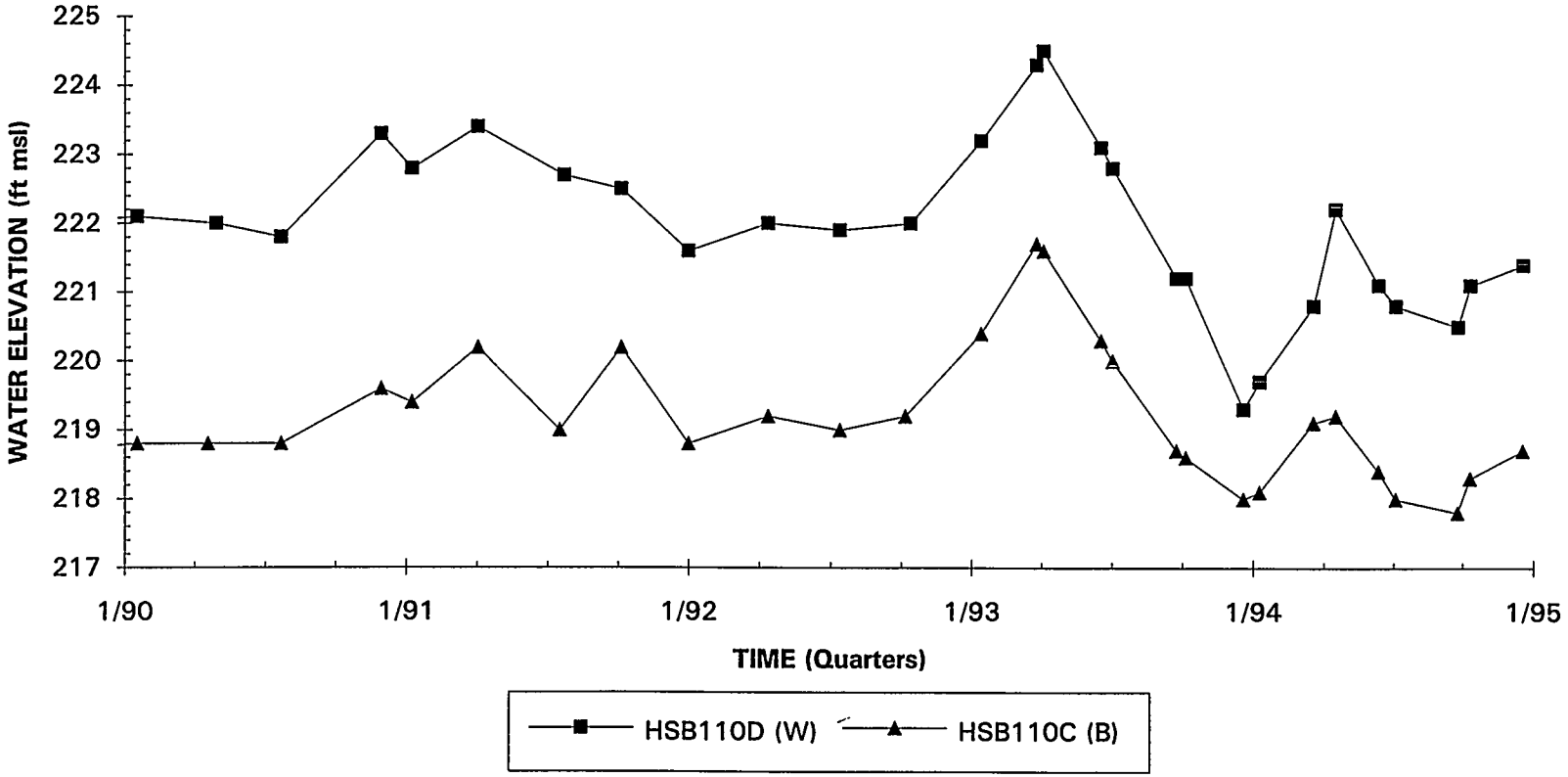
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB109



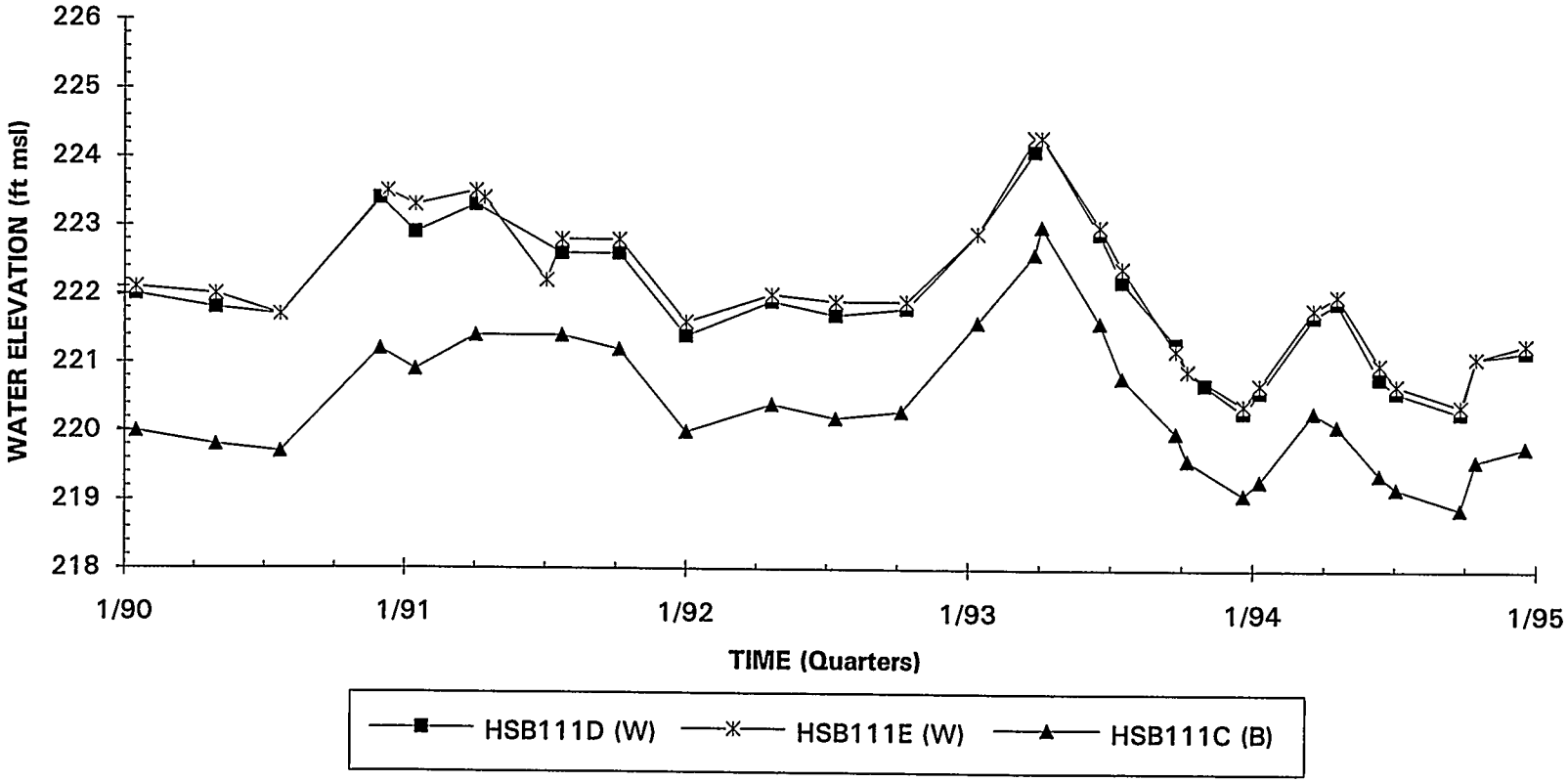
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB110



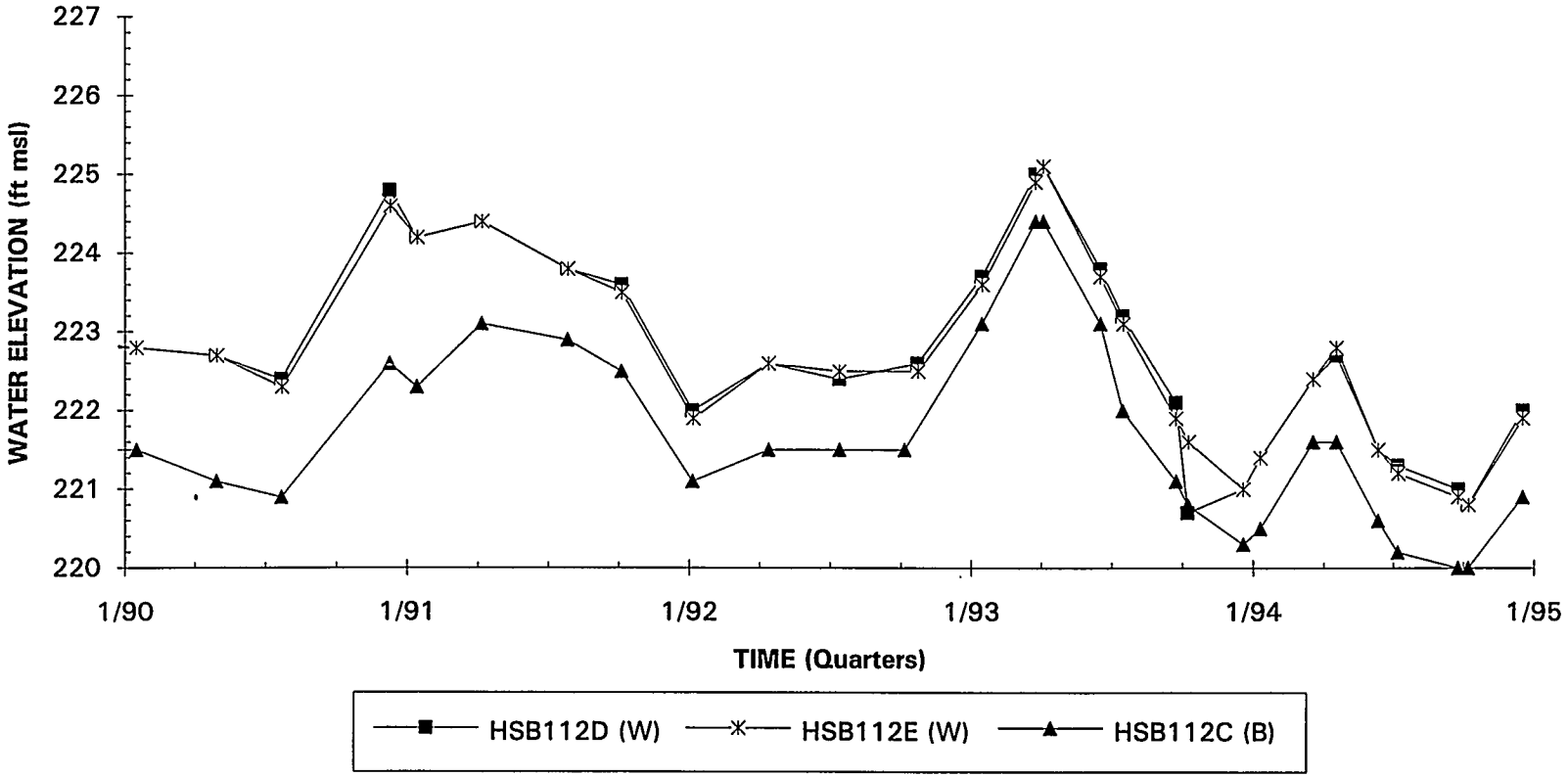
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB111



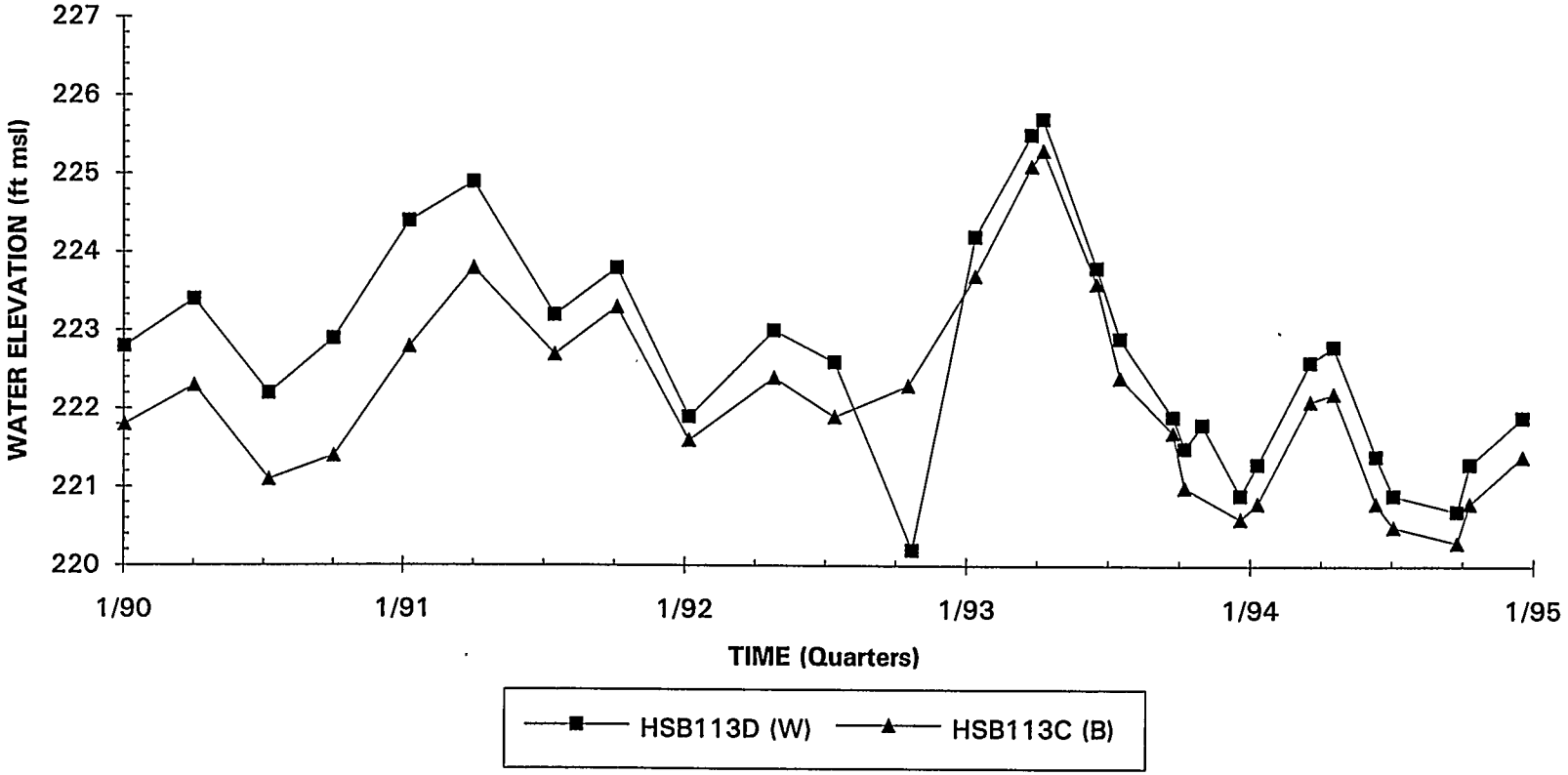
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB112



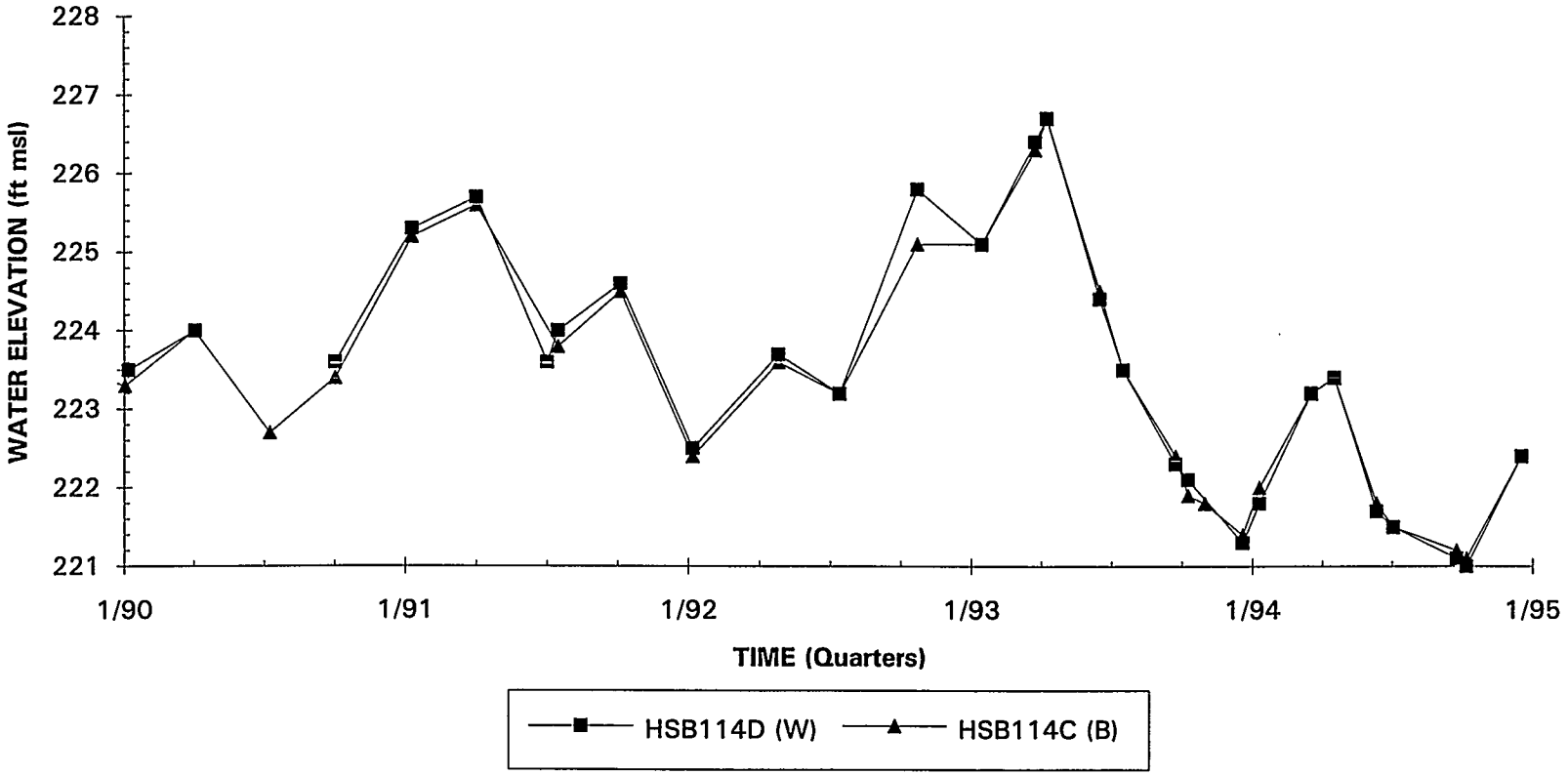
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB113



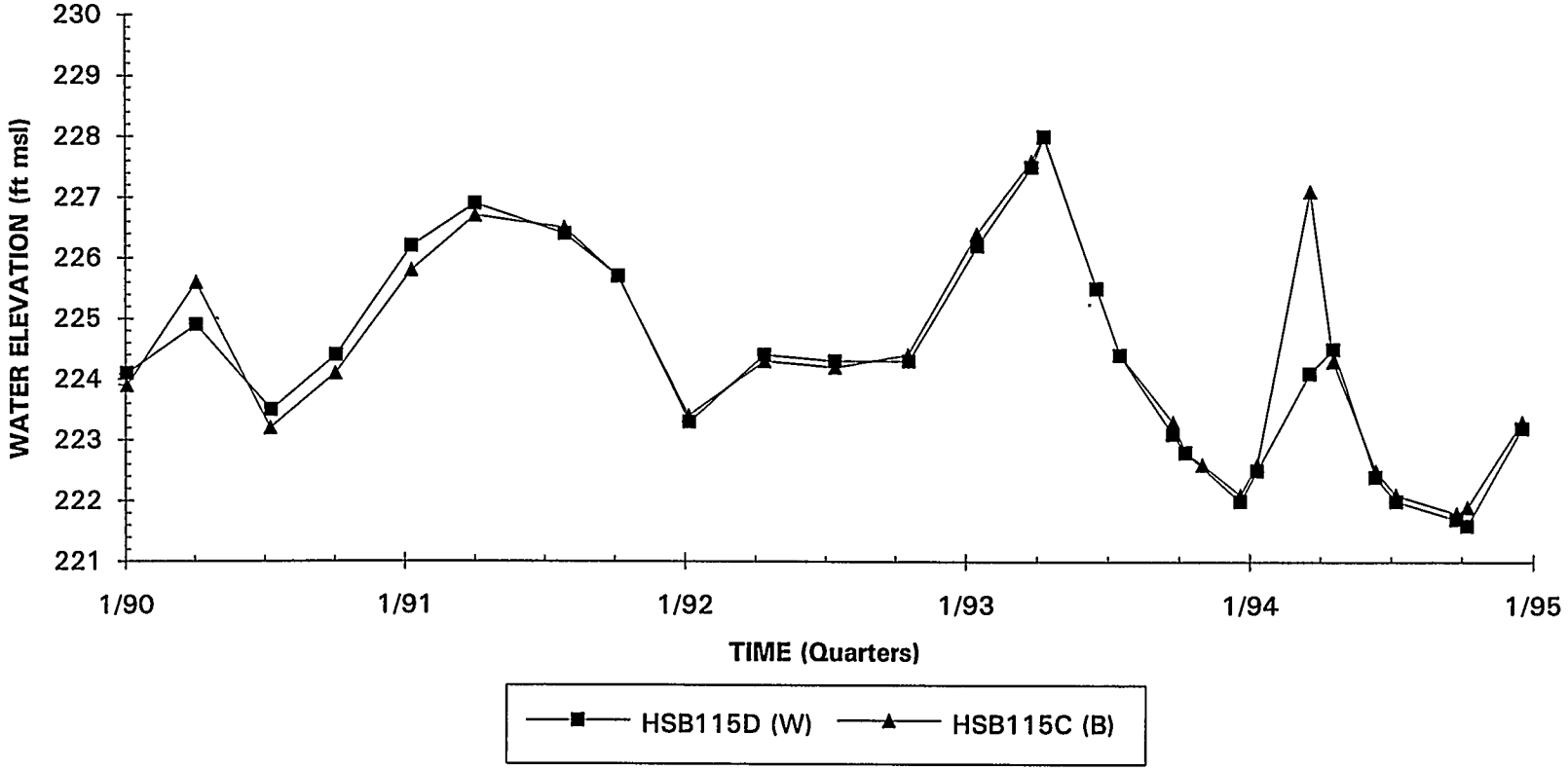
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB114



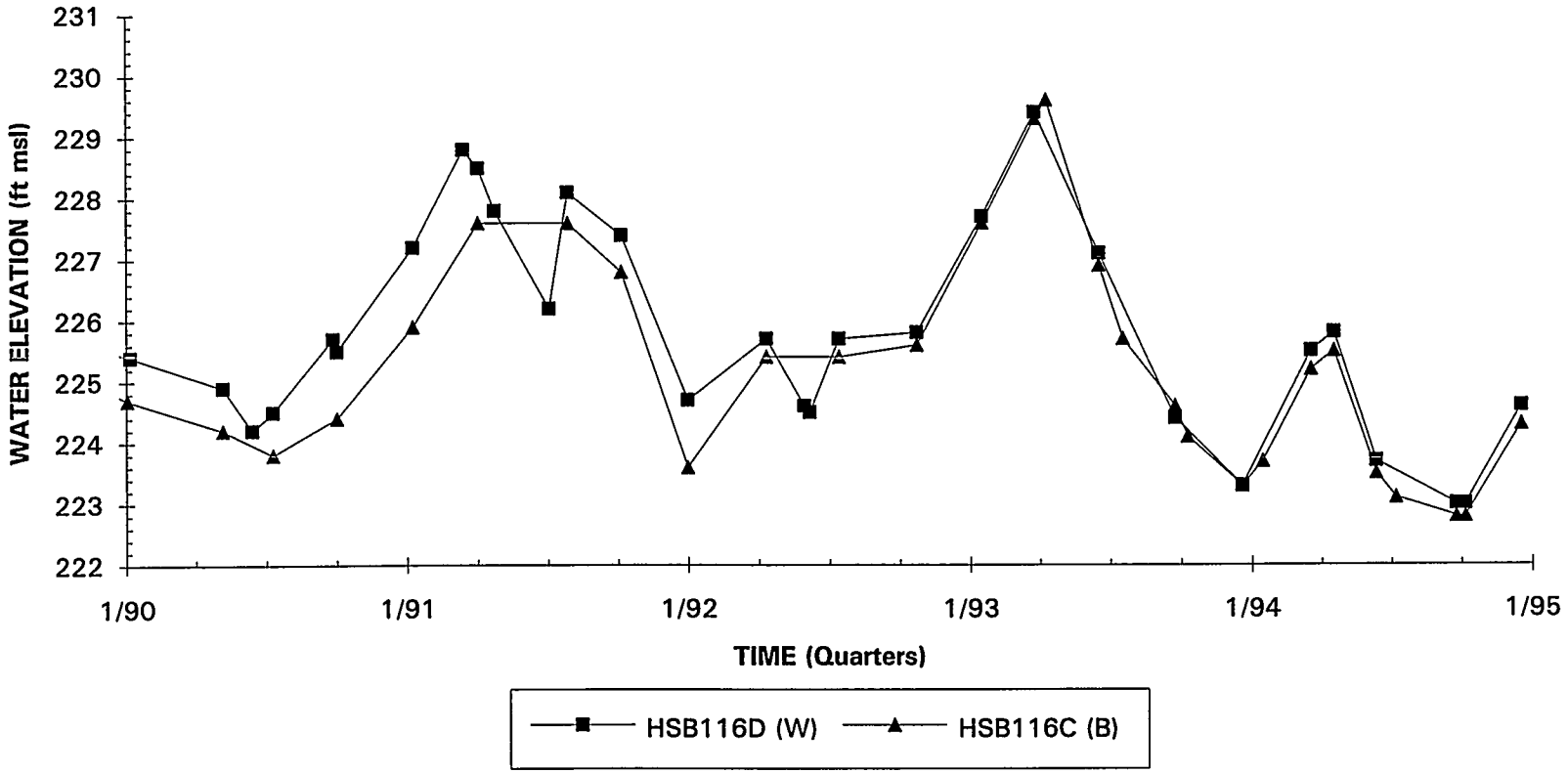
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB115



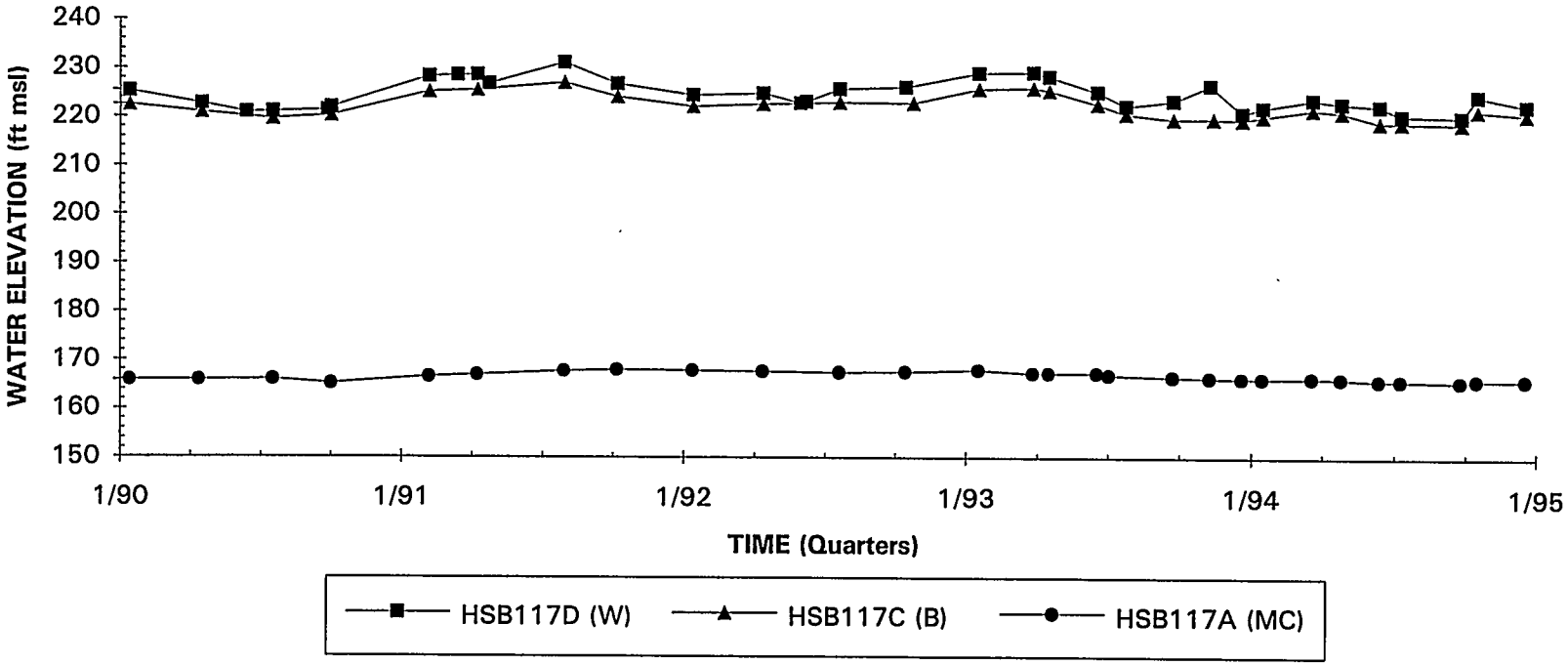
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB116



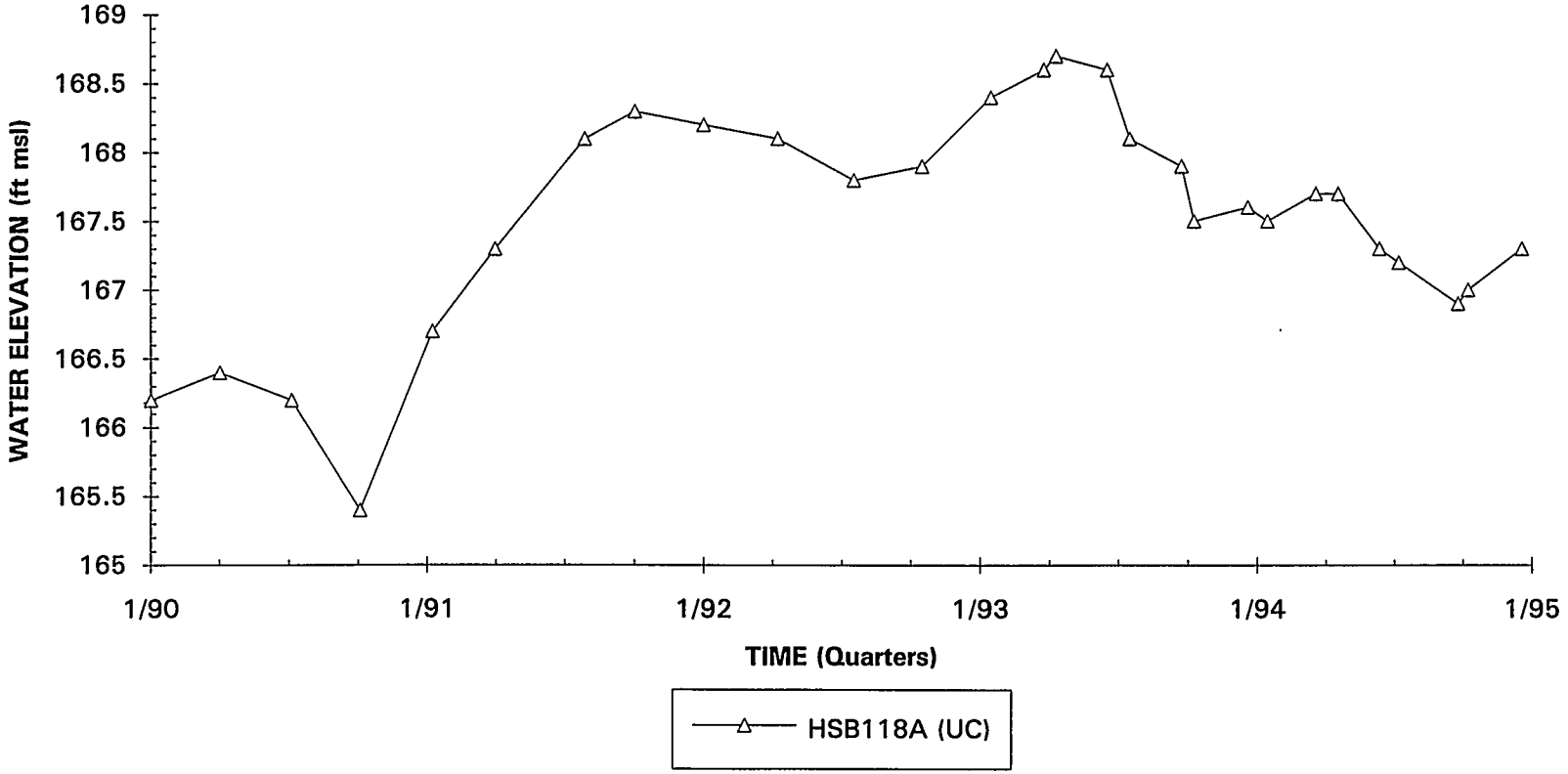
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB117



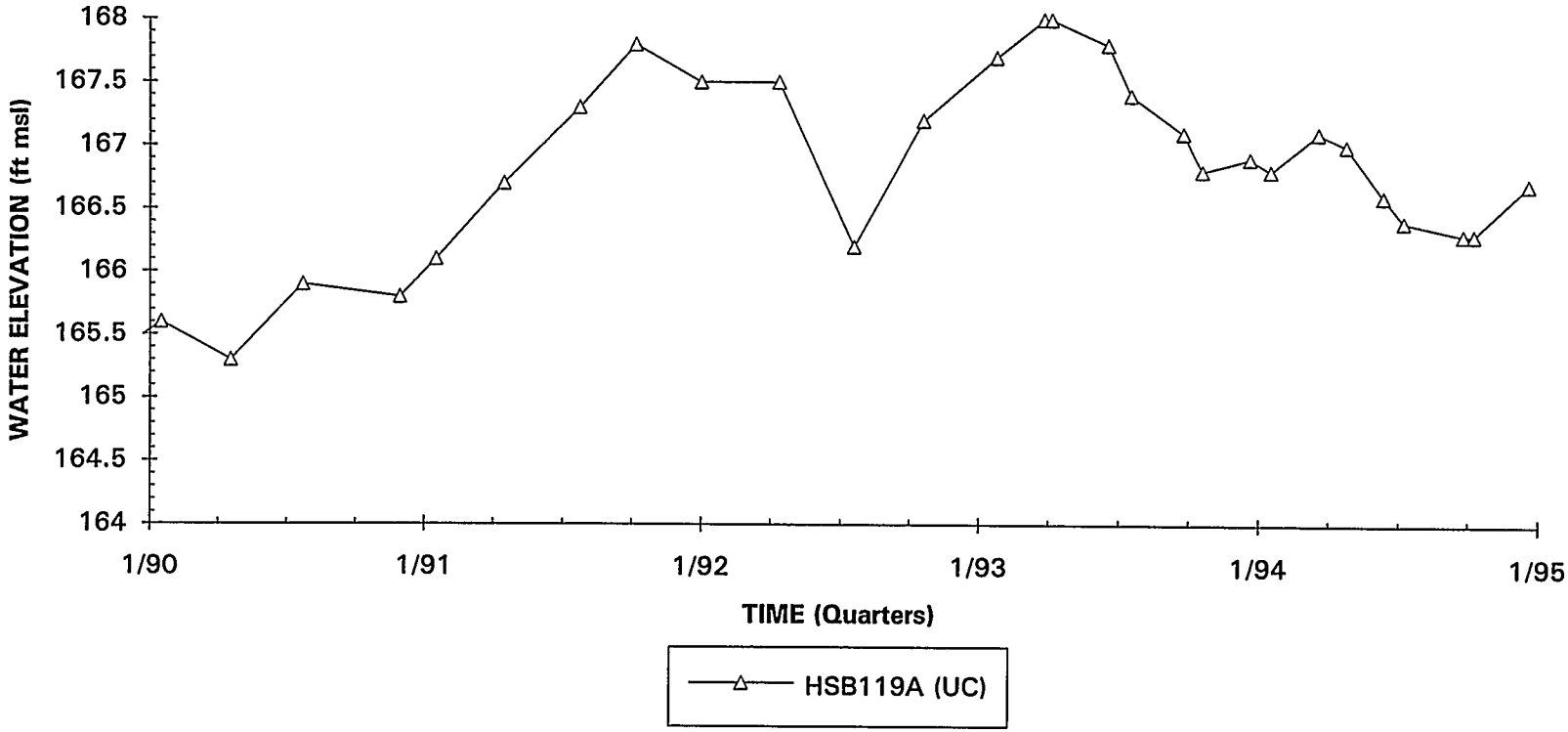
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB118A



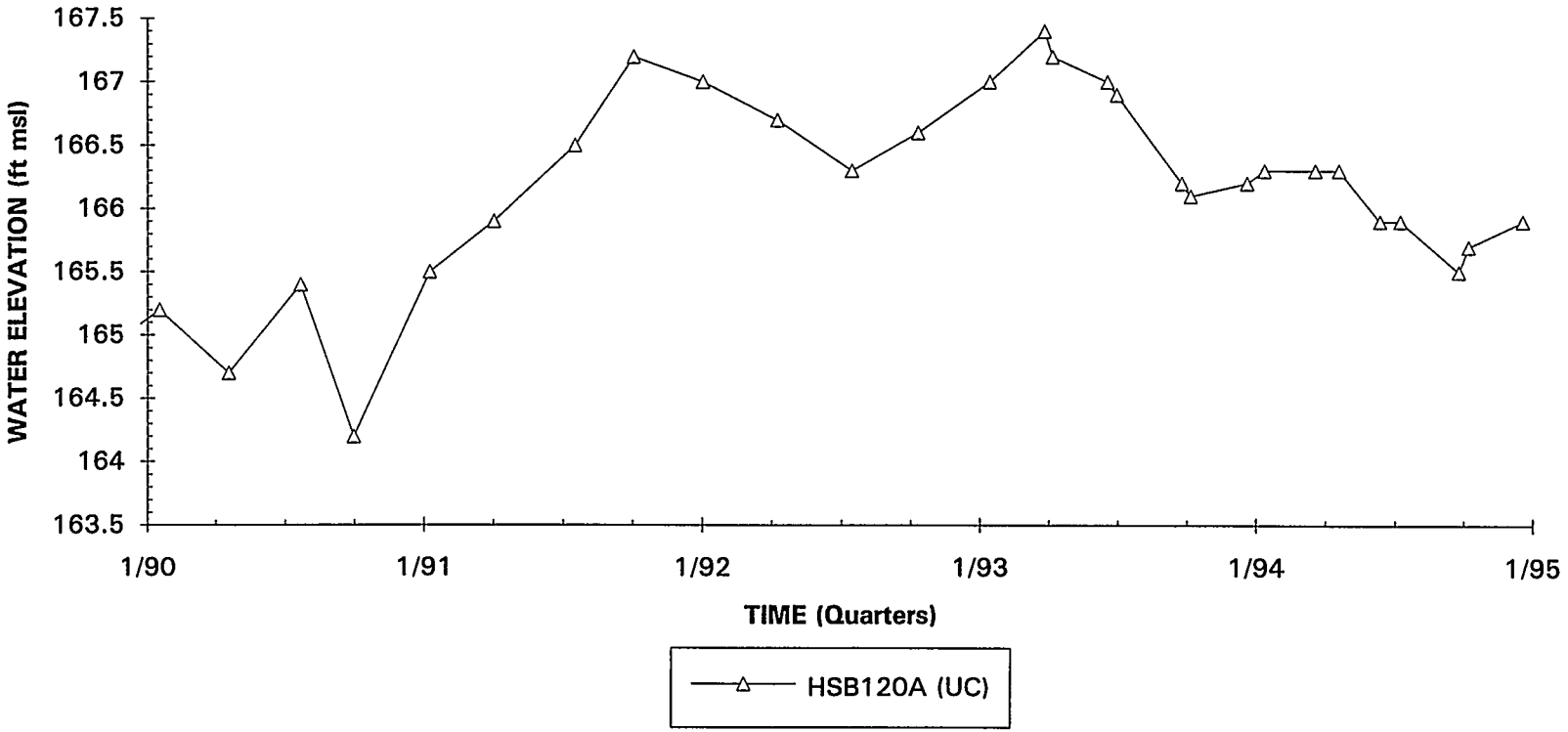
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB119A



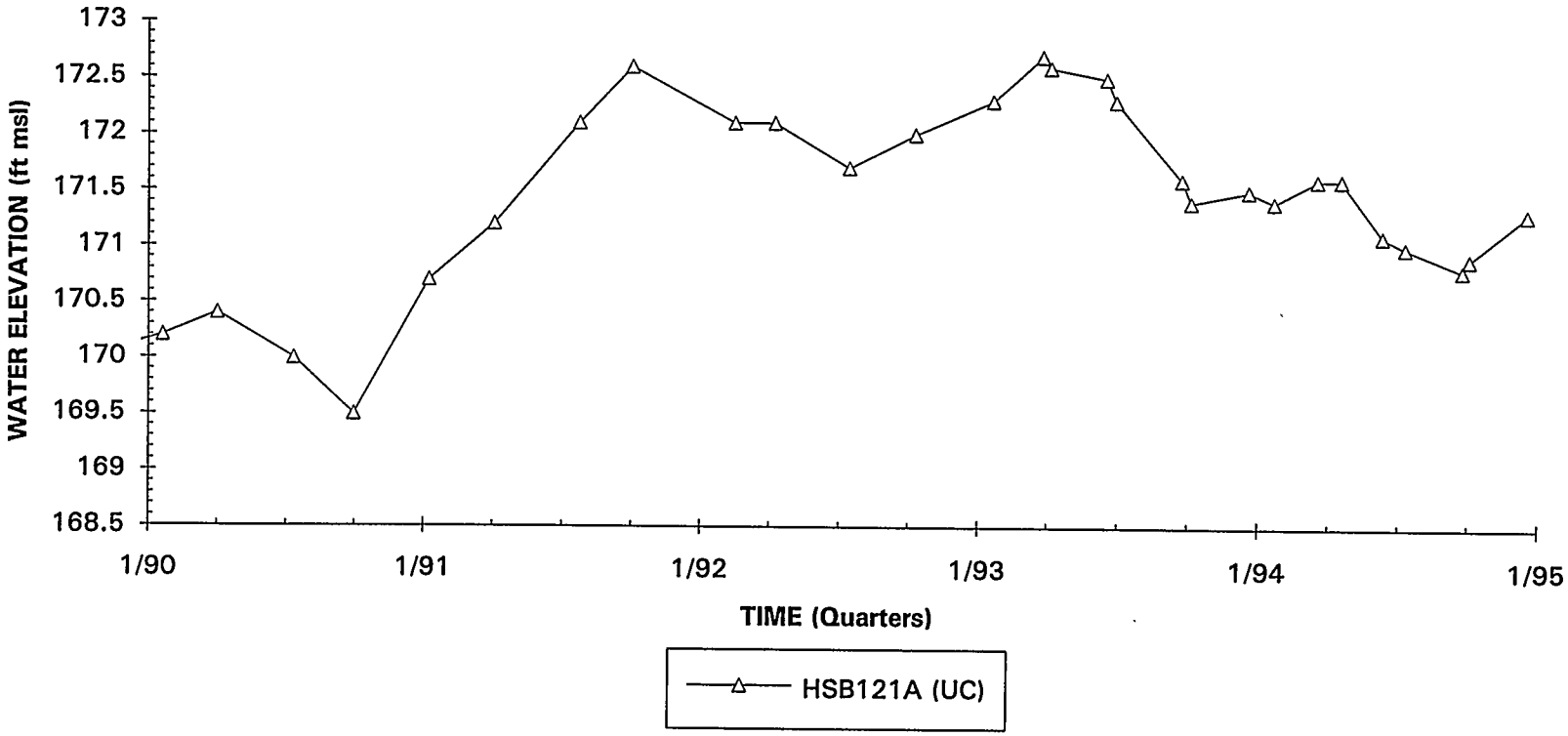
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB120A

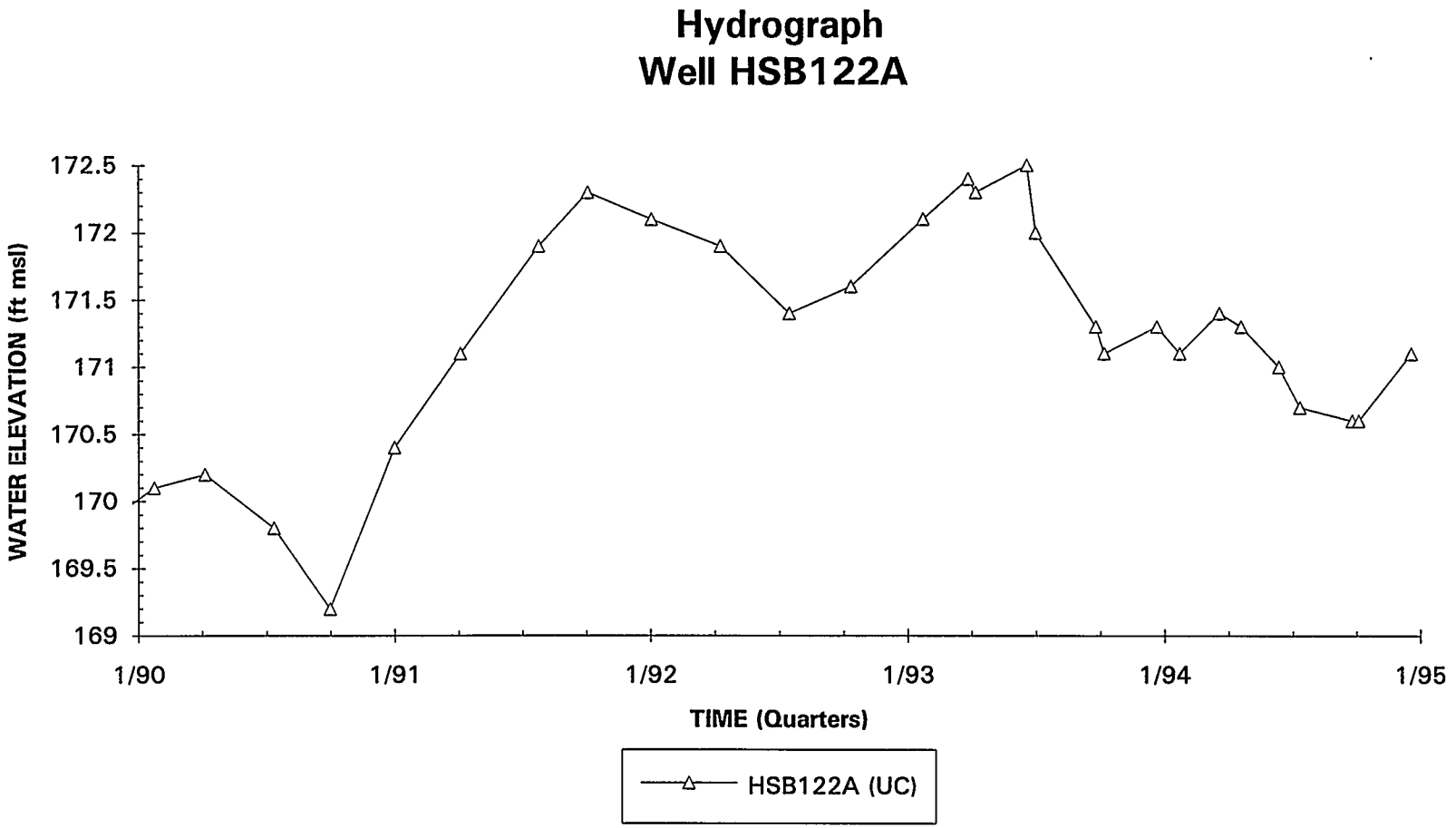


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB121A

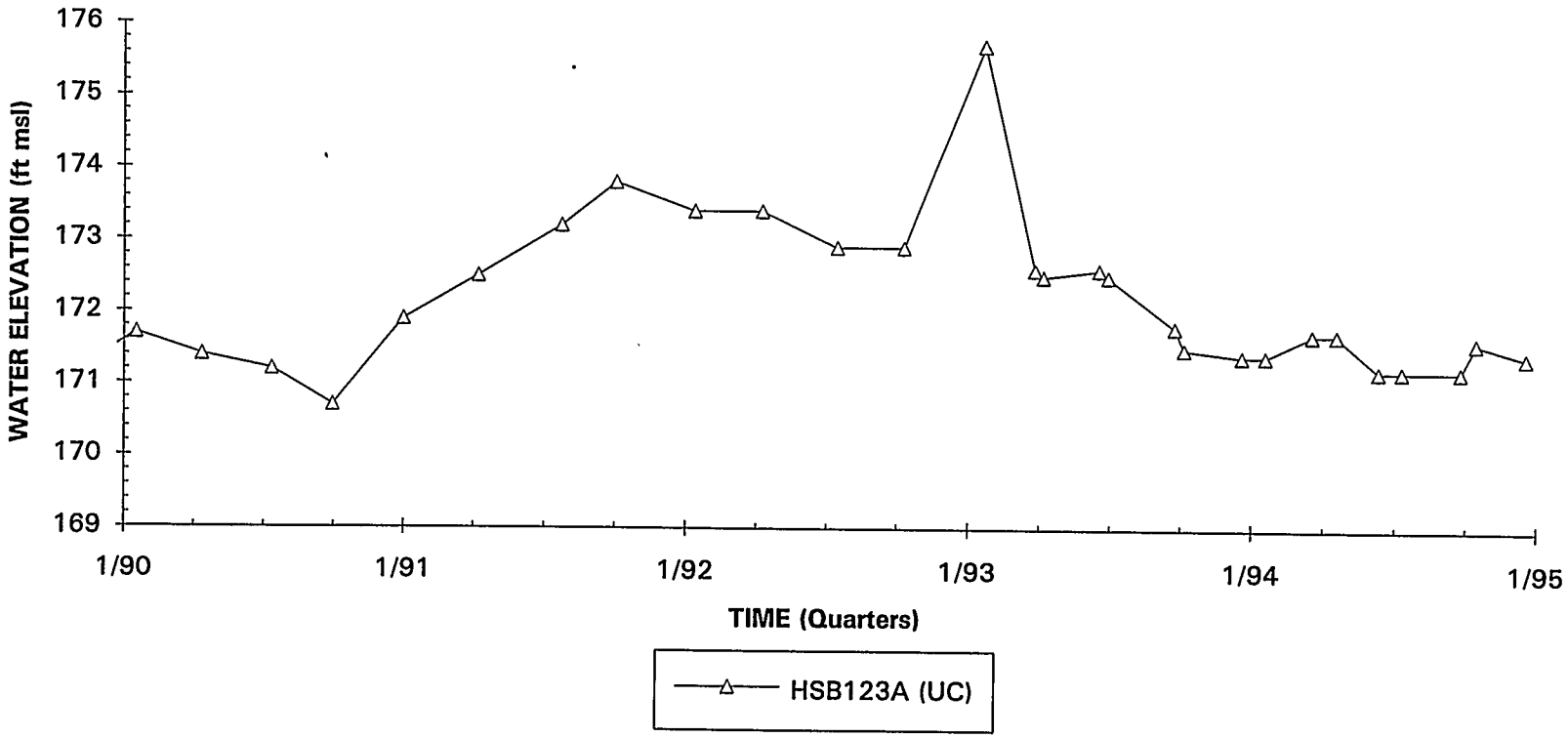


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



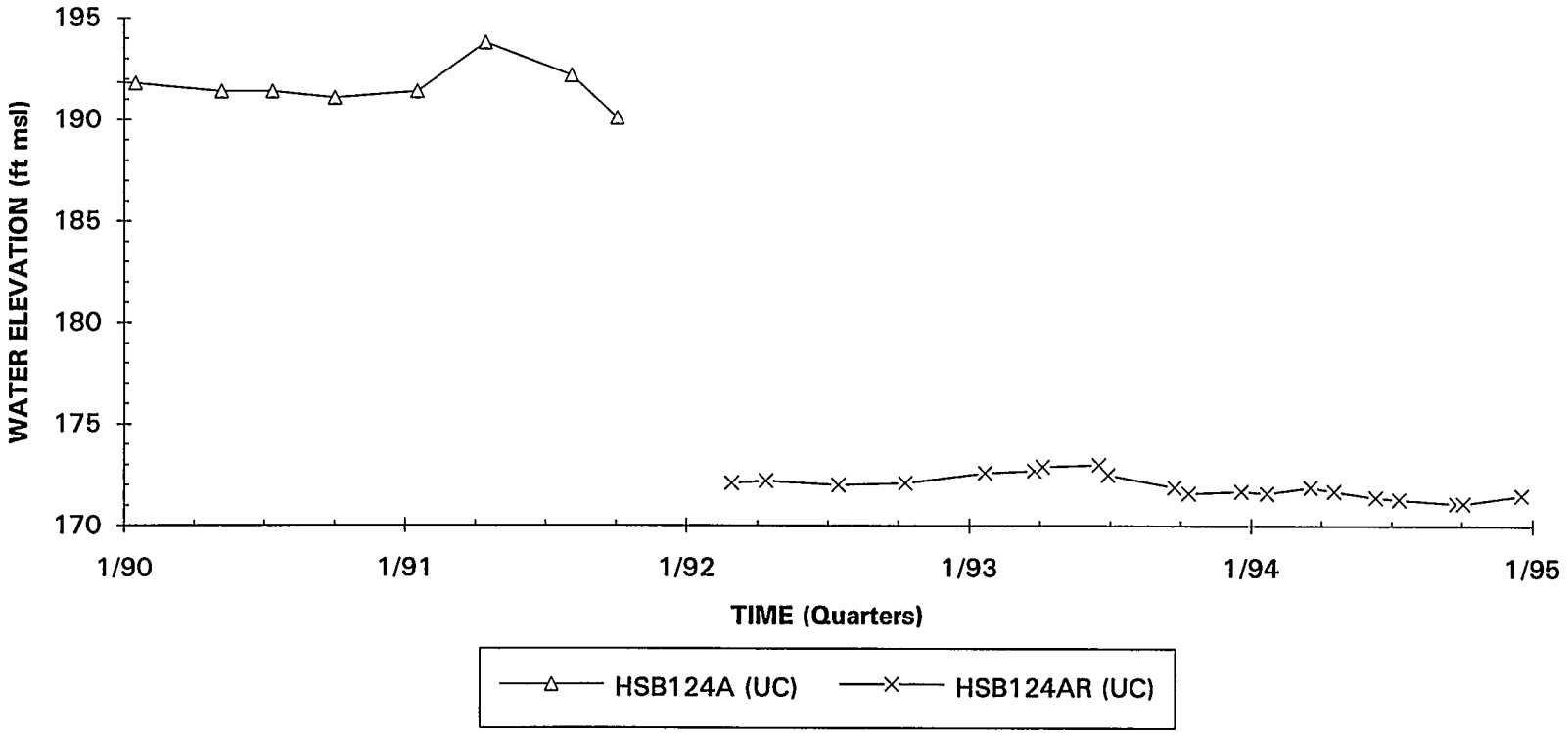
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB123A



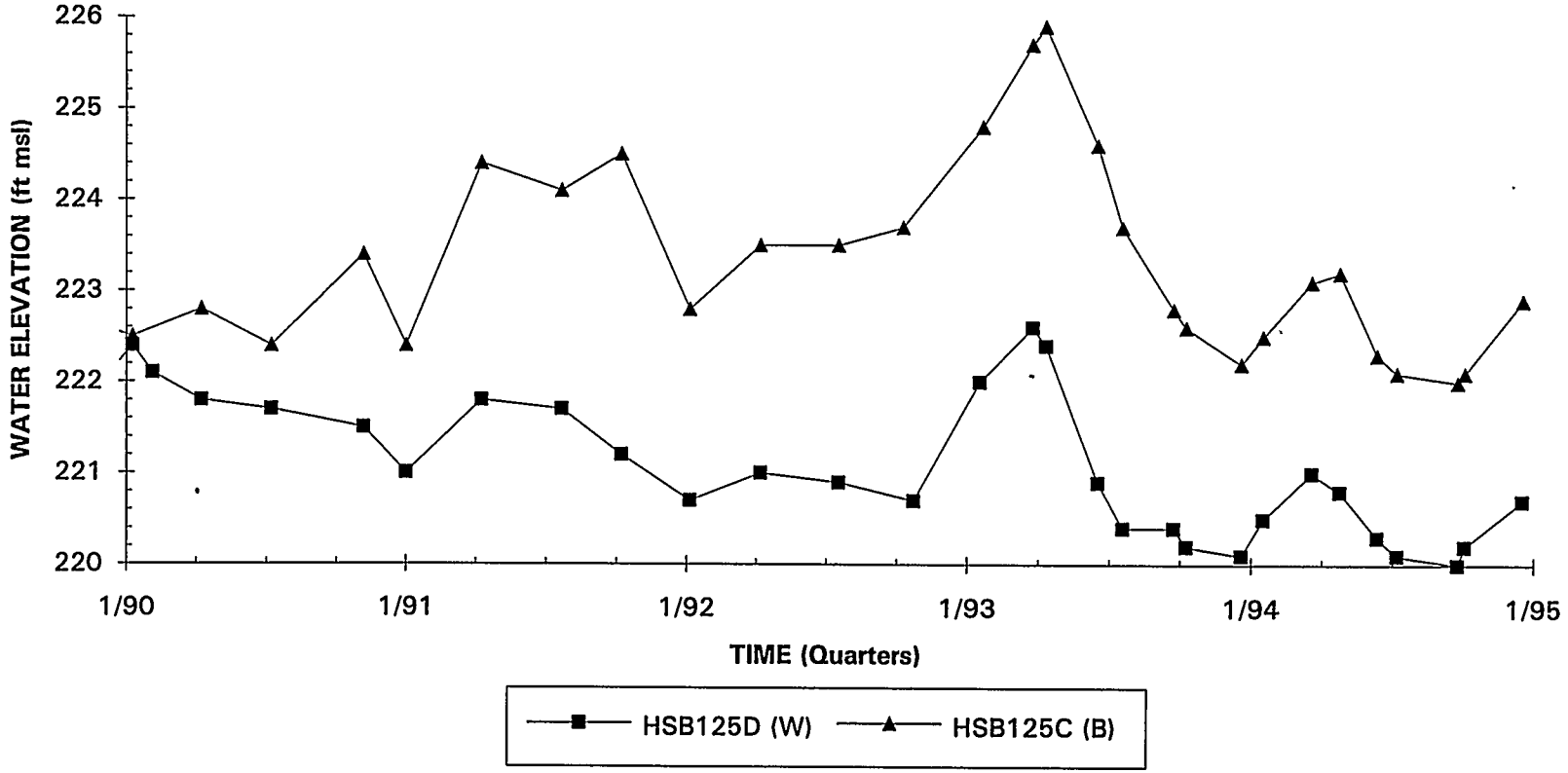
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB124



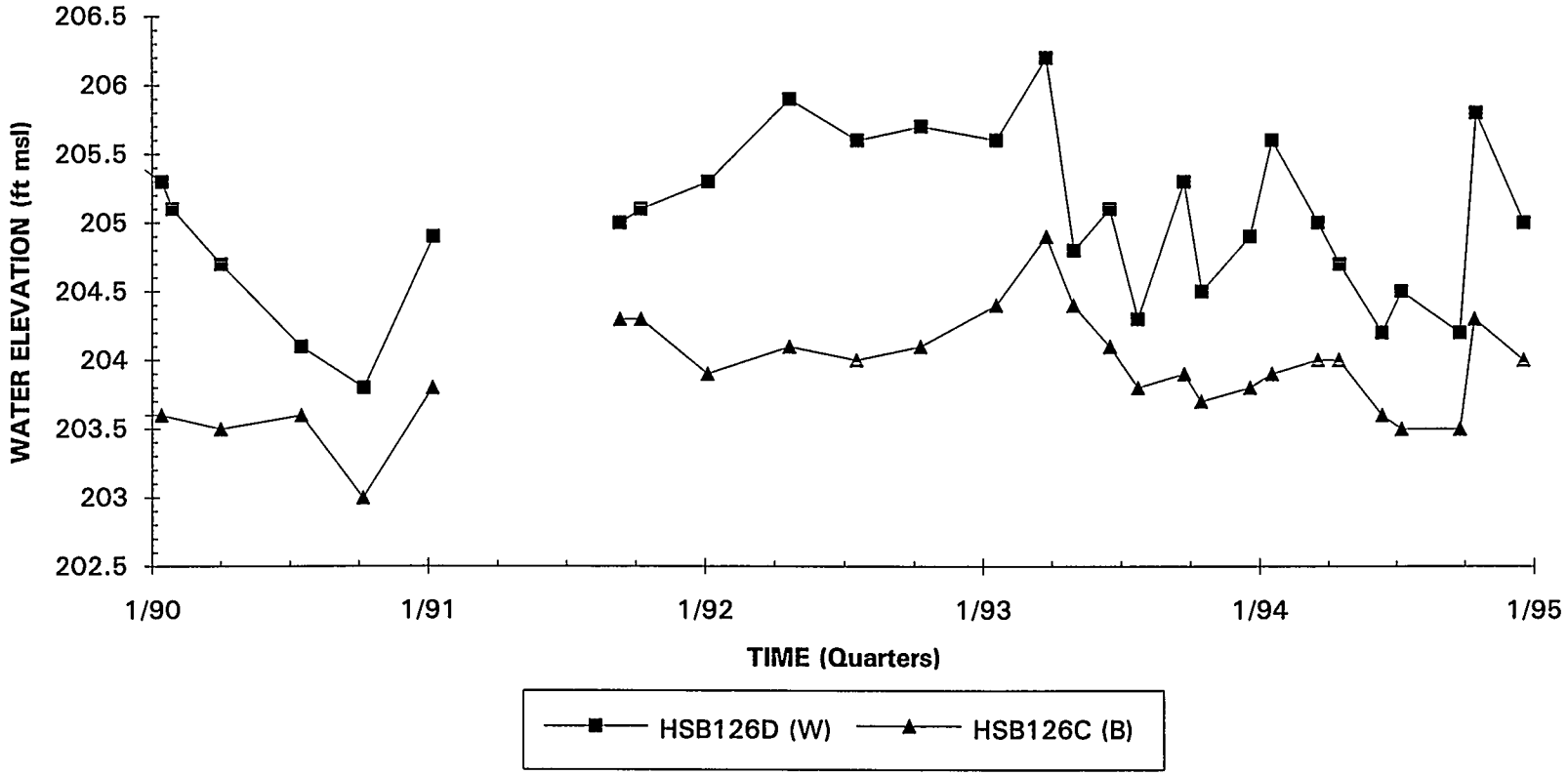
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB125



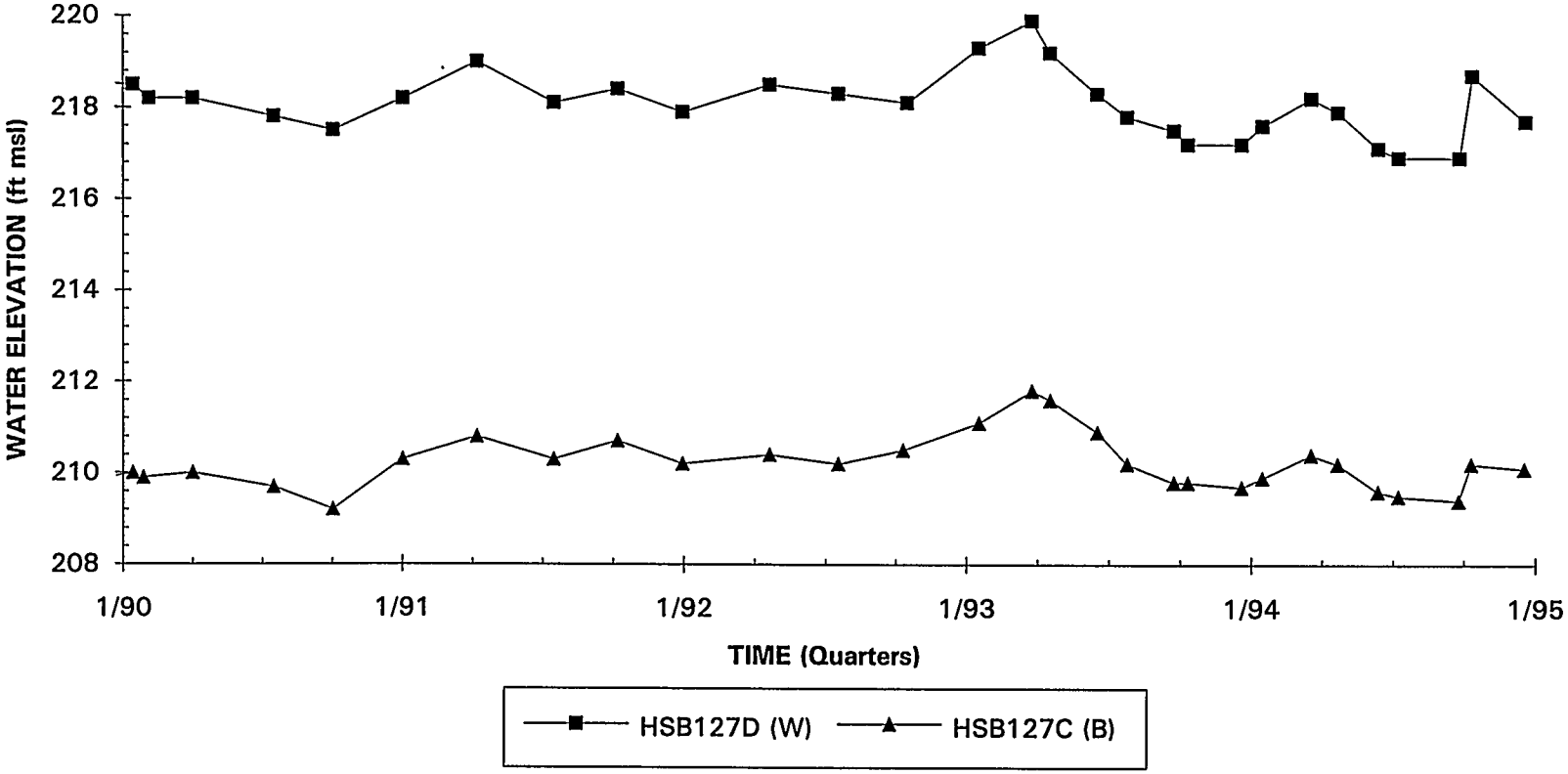
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB126



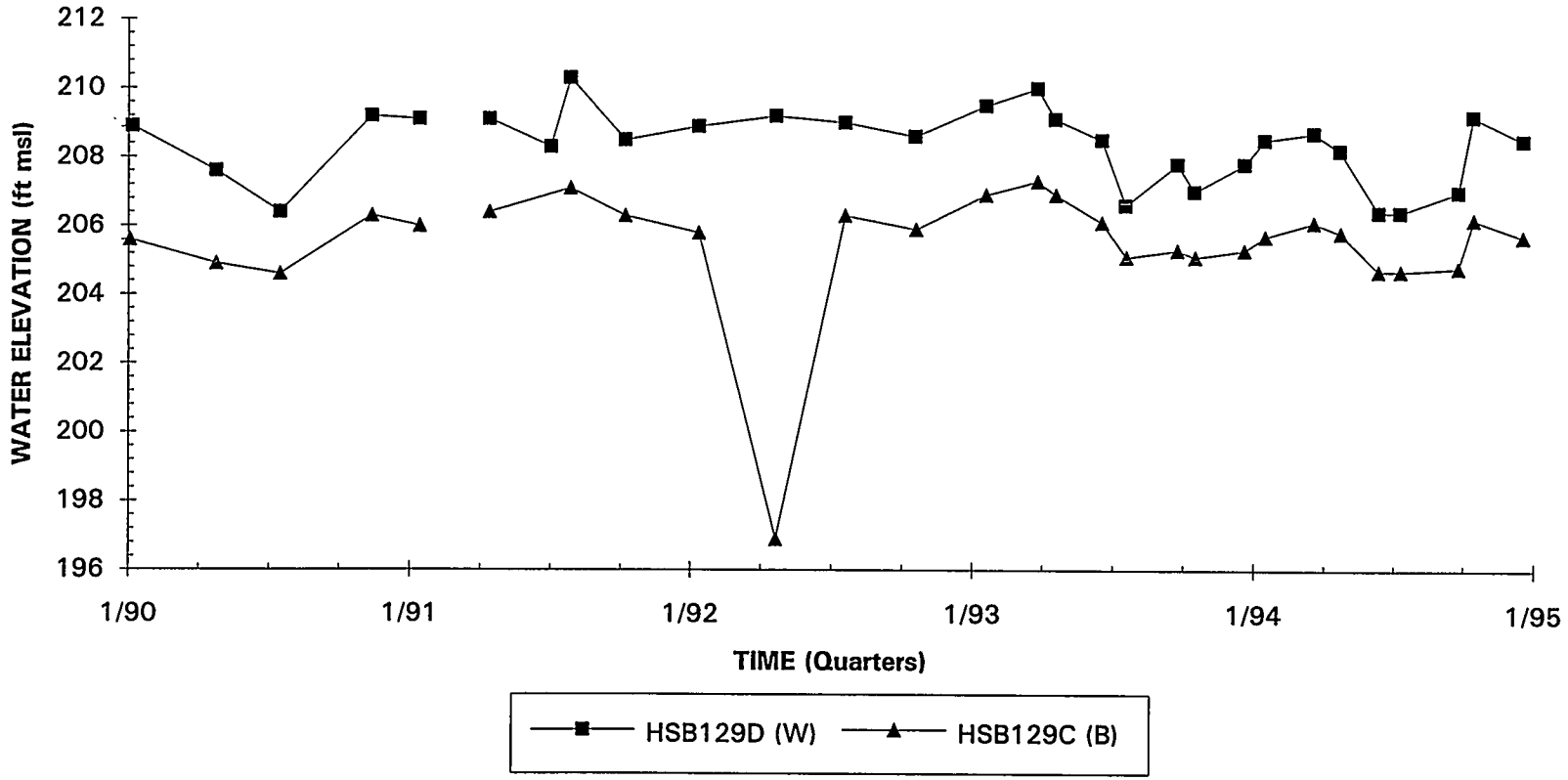
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB127



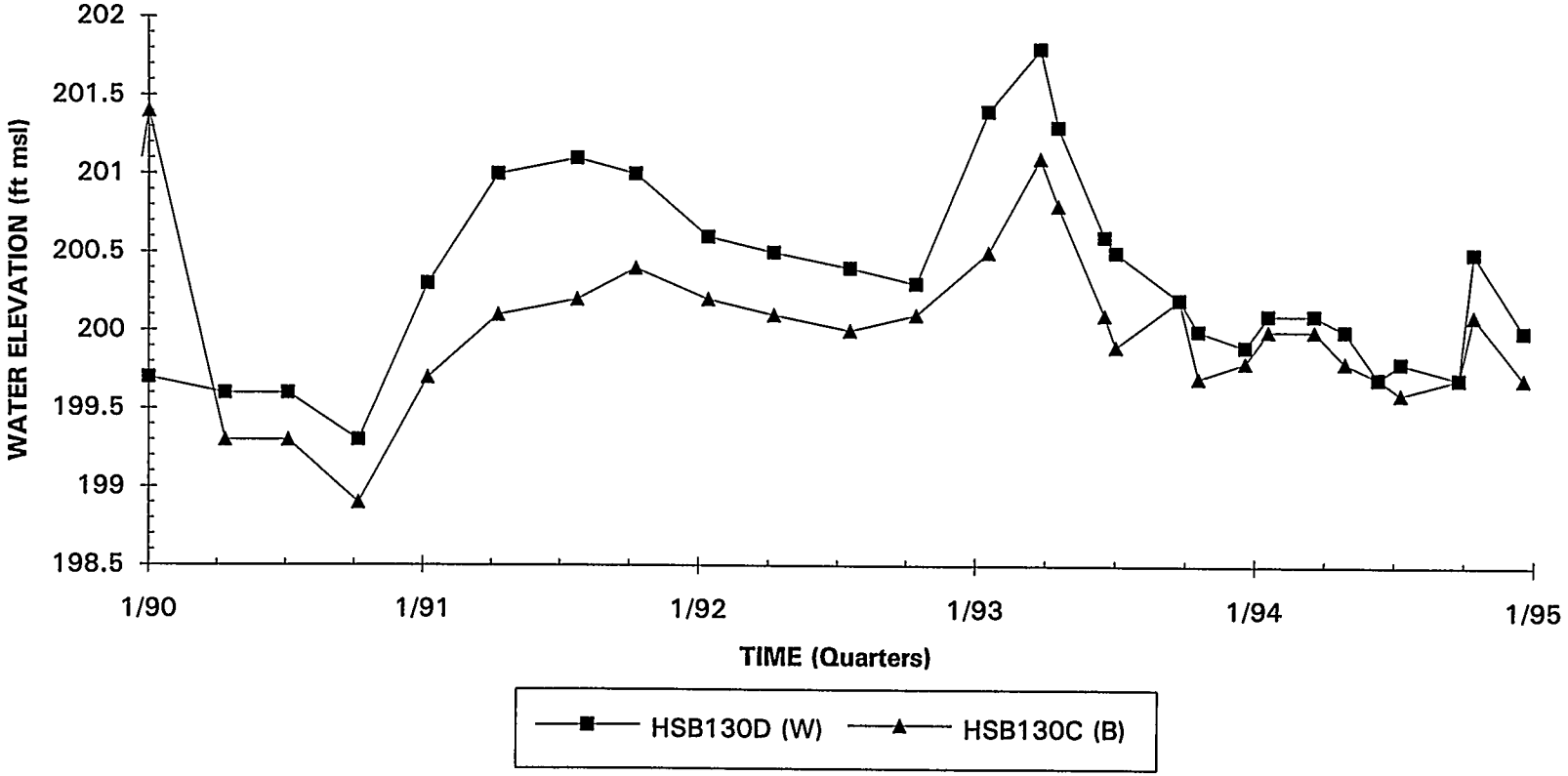
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB129



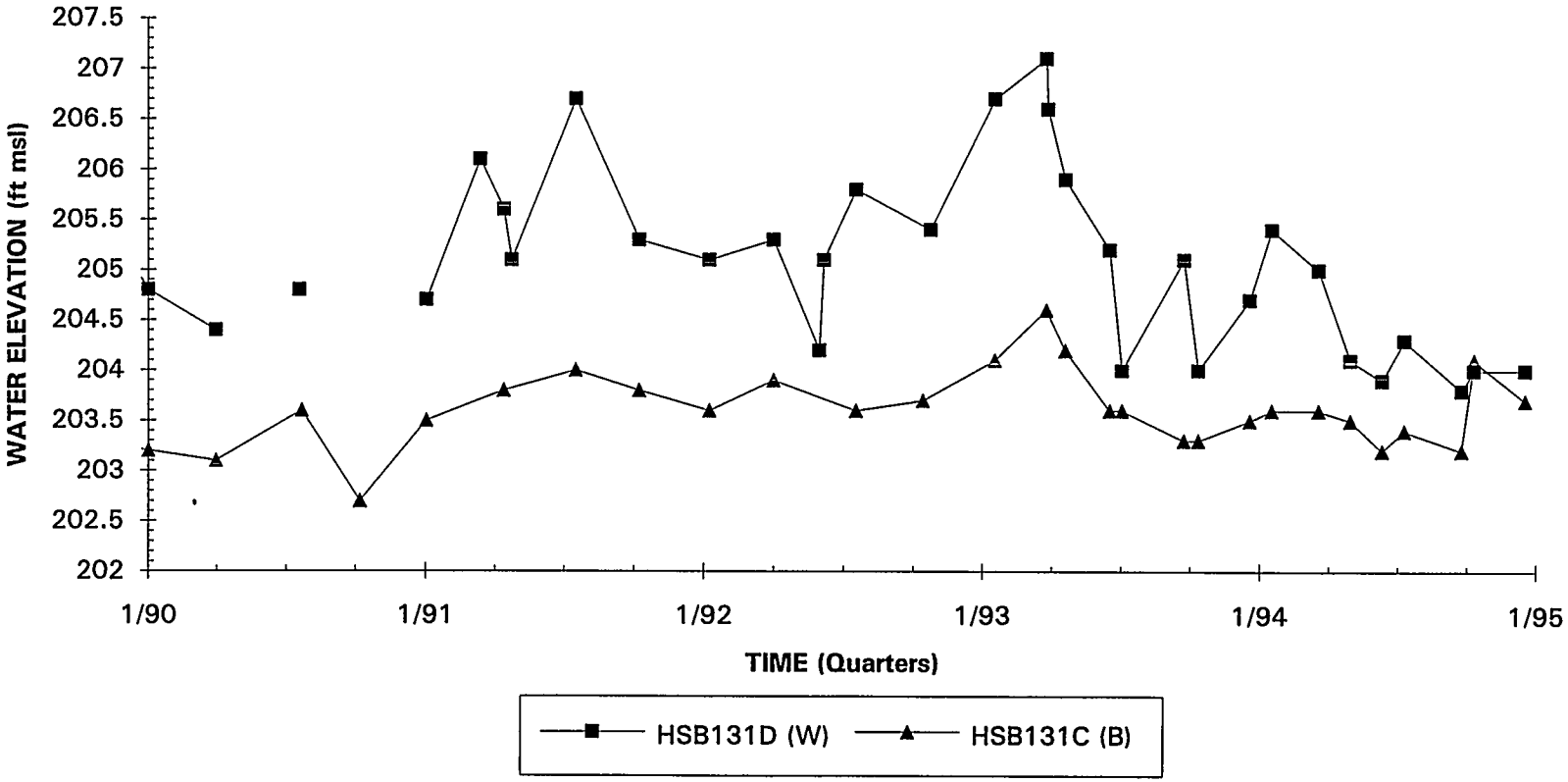
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB130



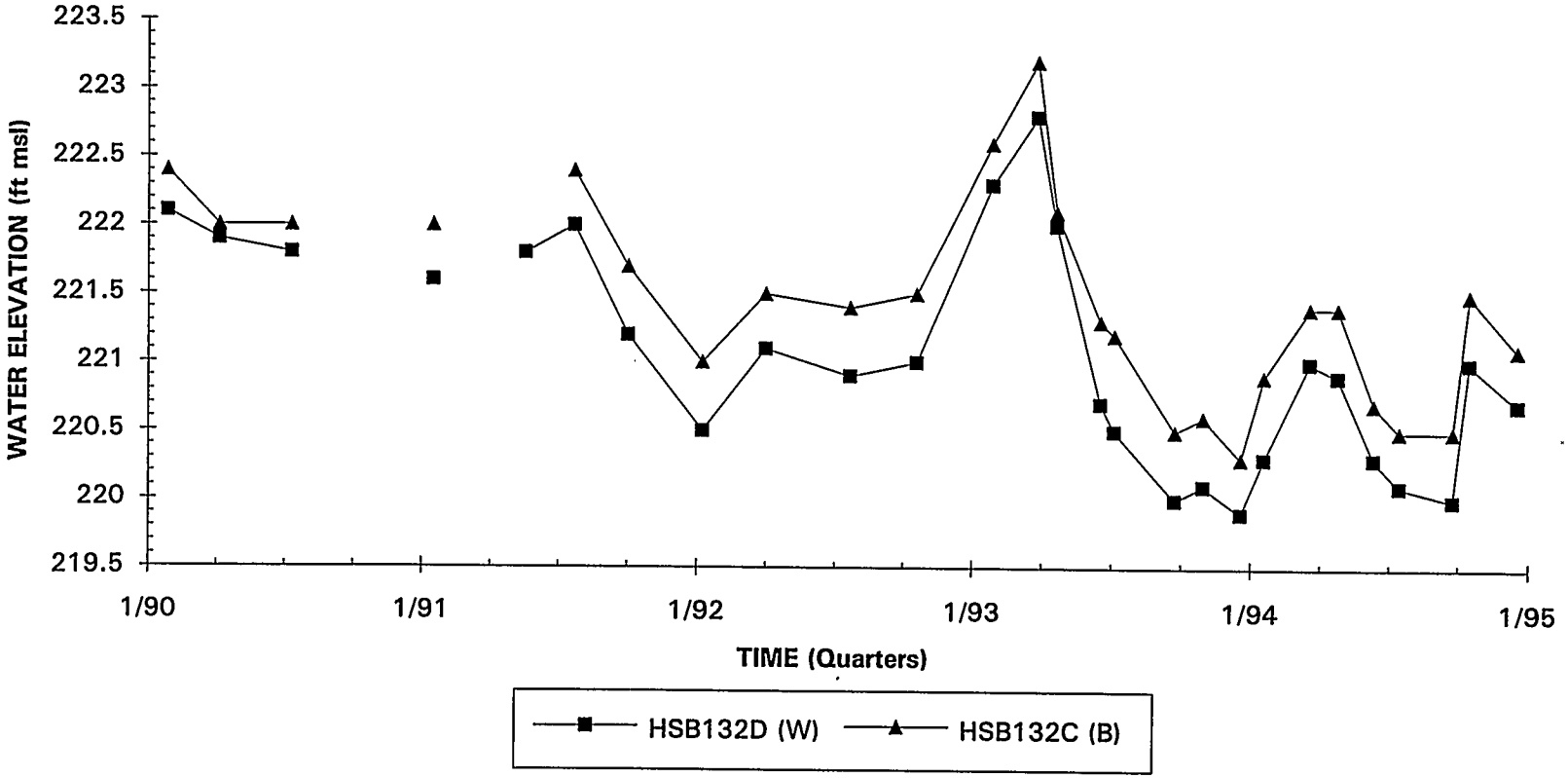
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB131



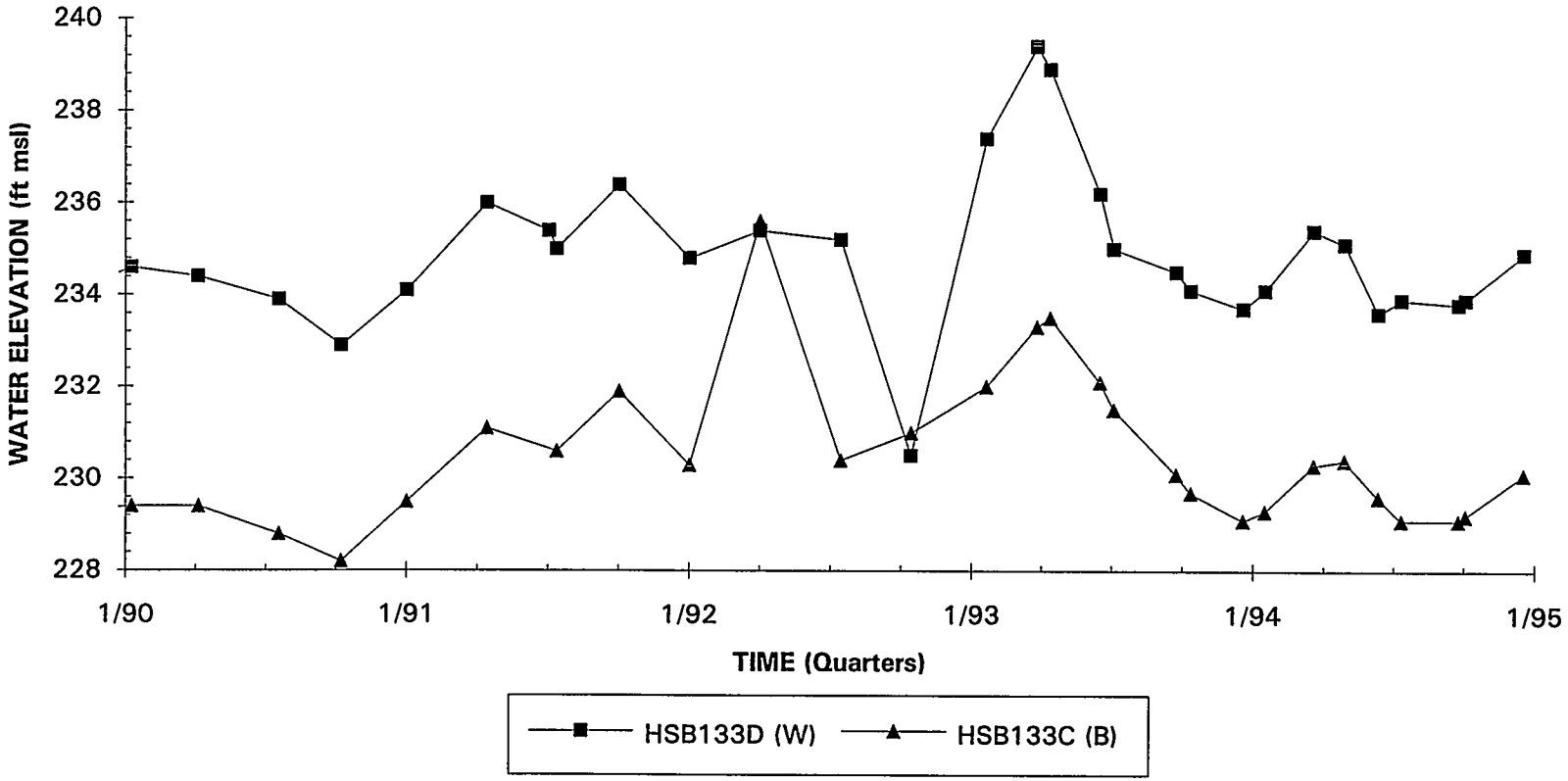
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB132



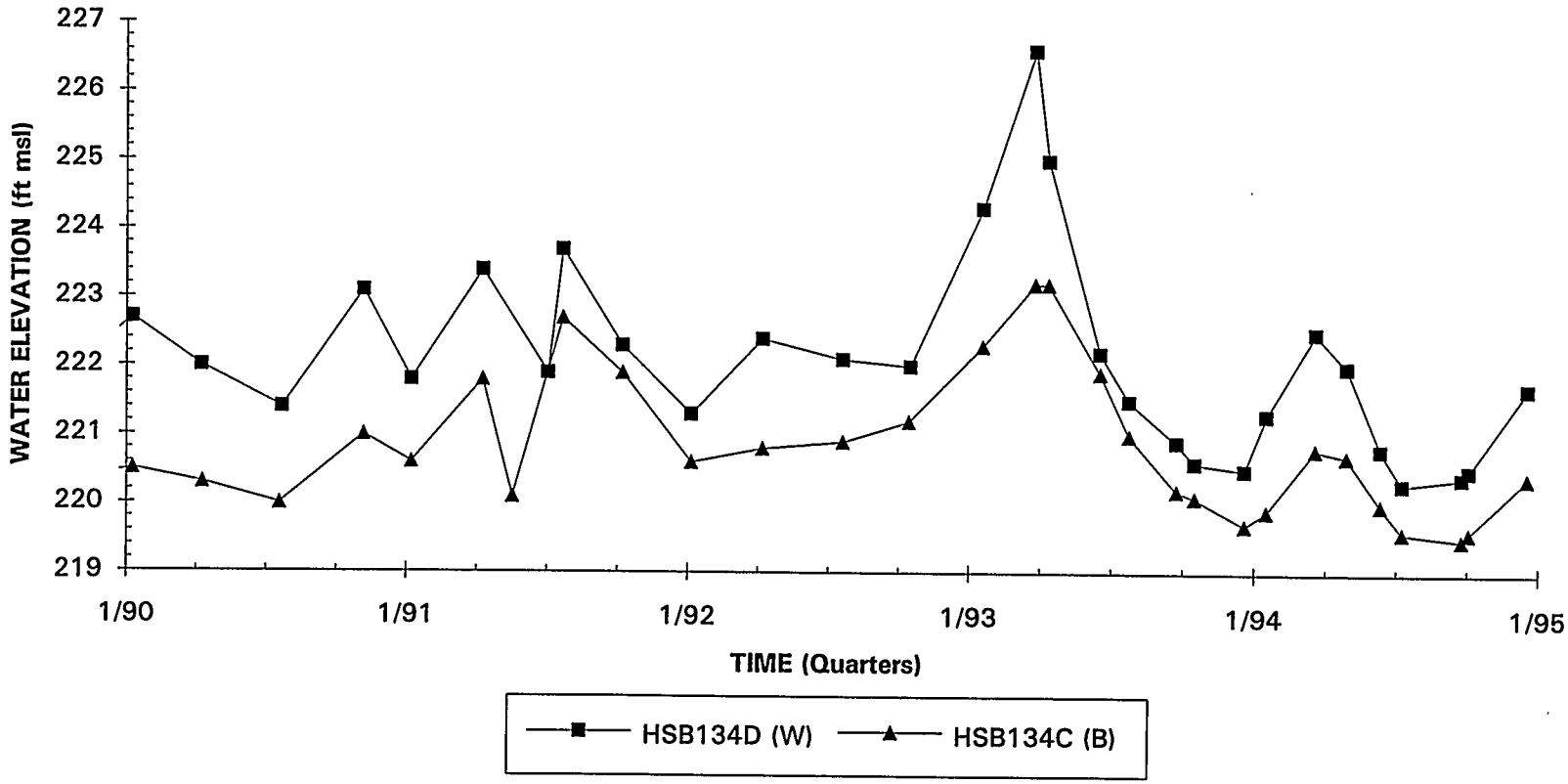
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB133



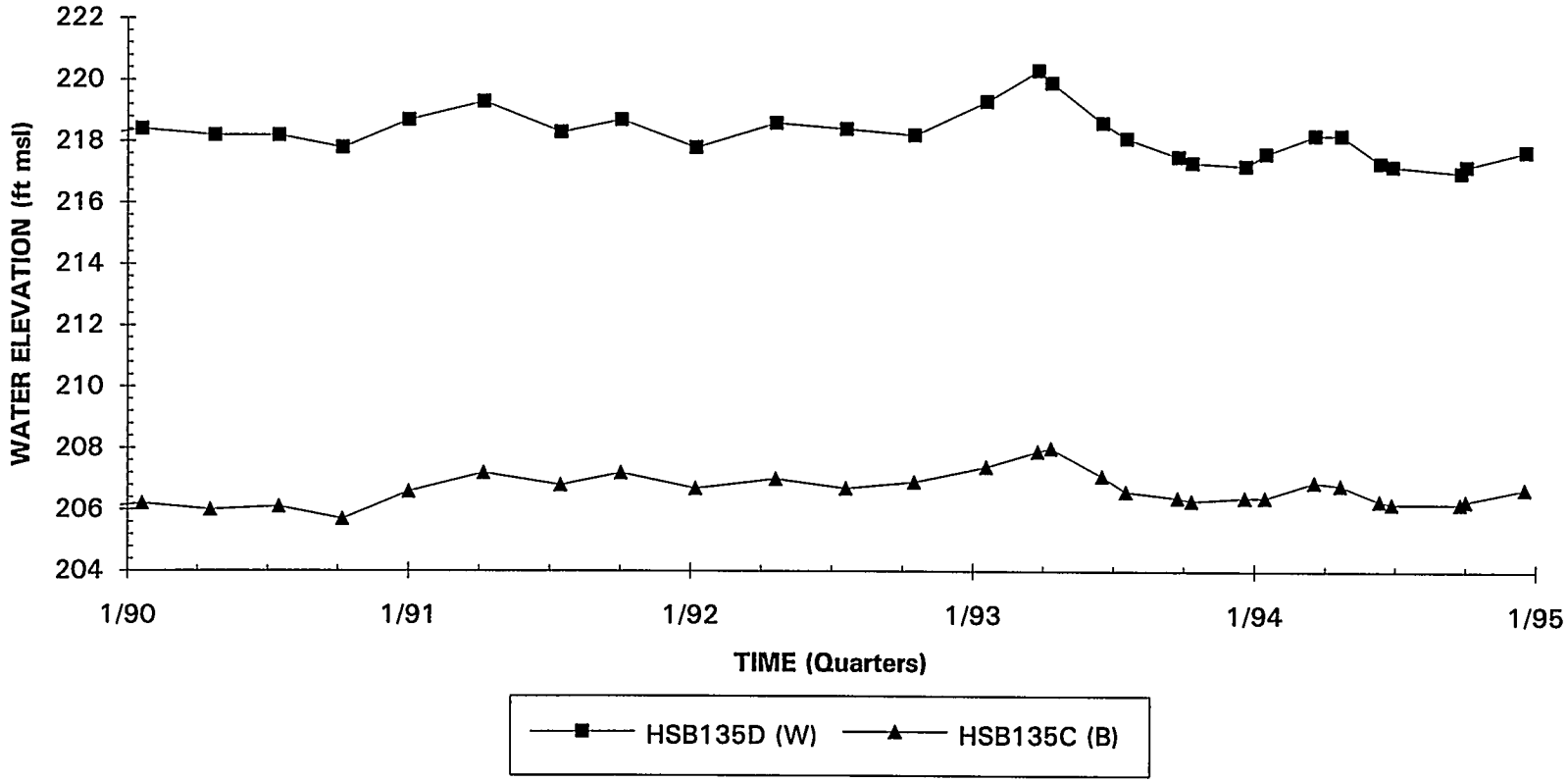
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB134



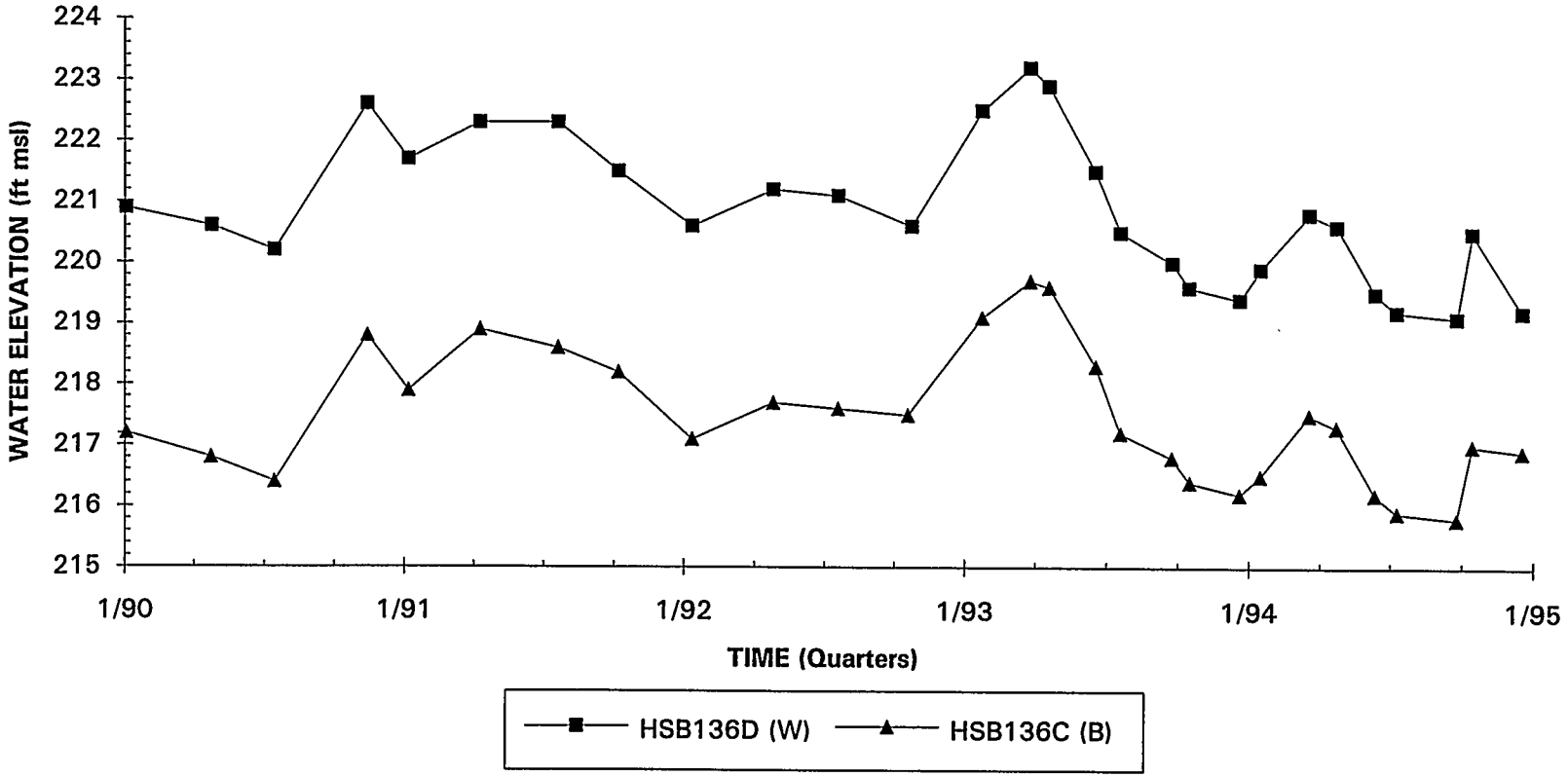
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB135



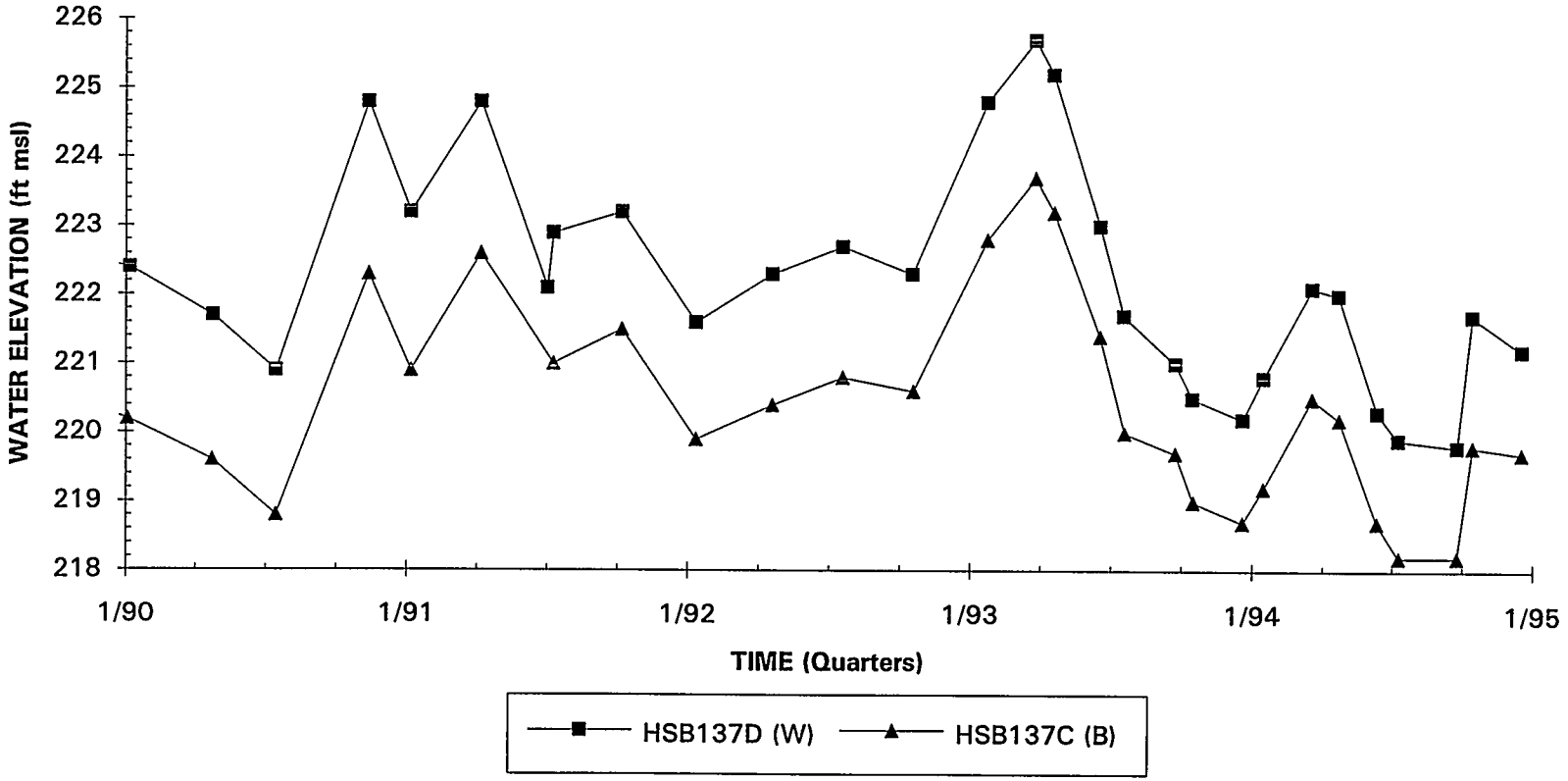
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB136



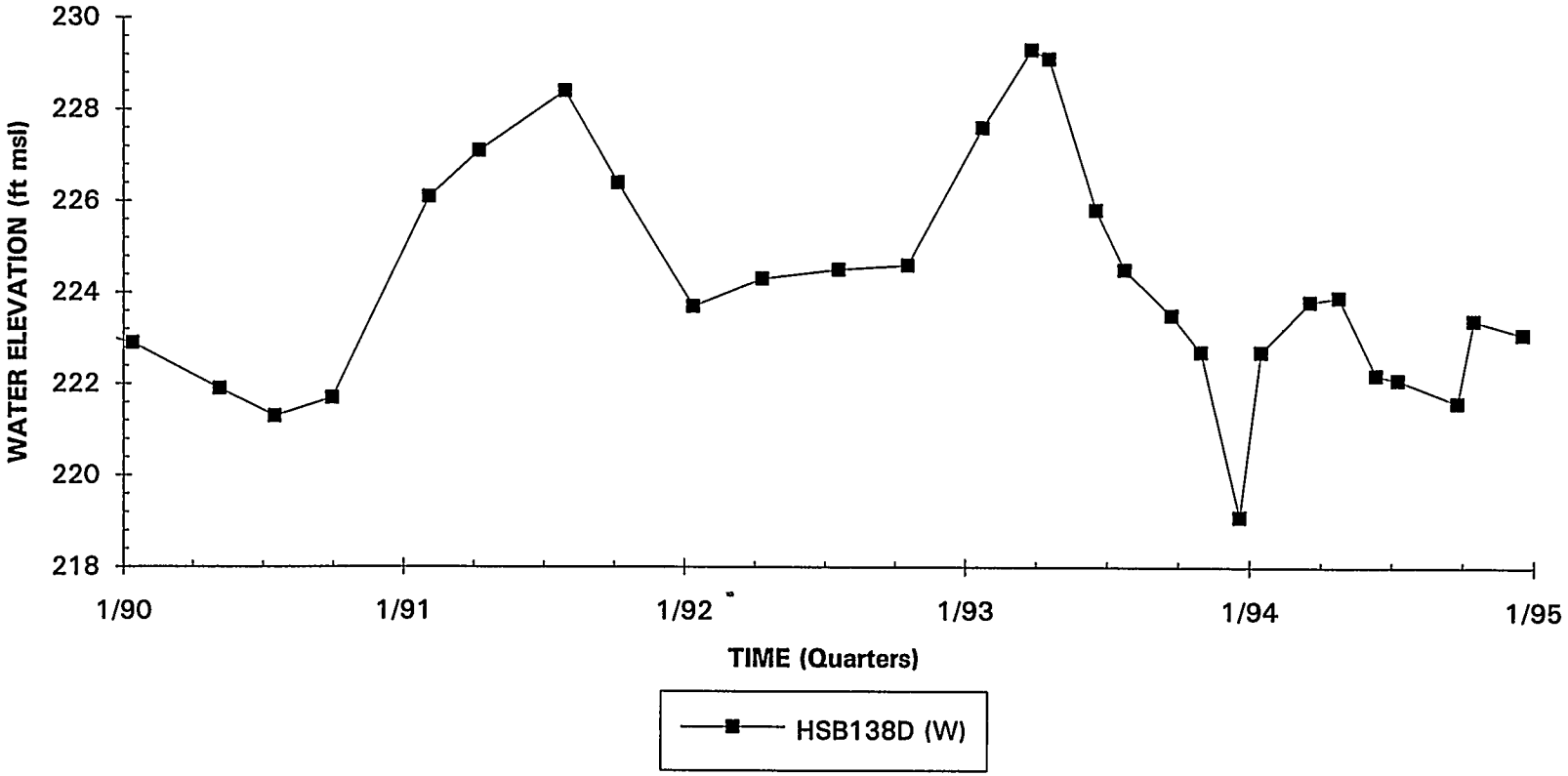
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB137



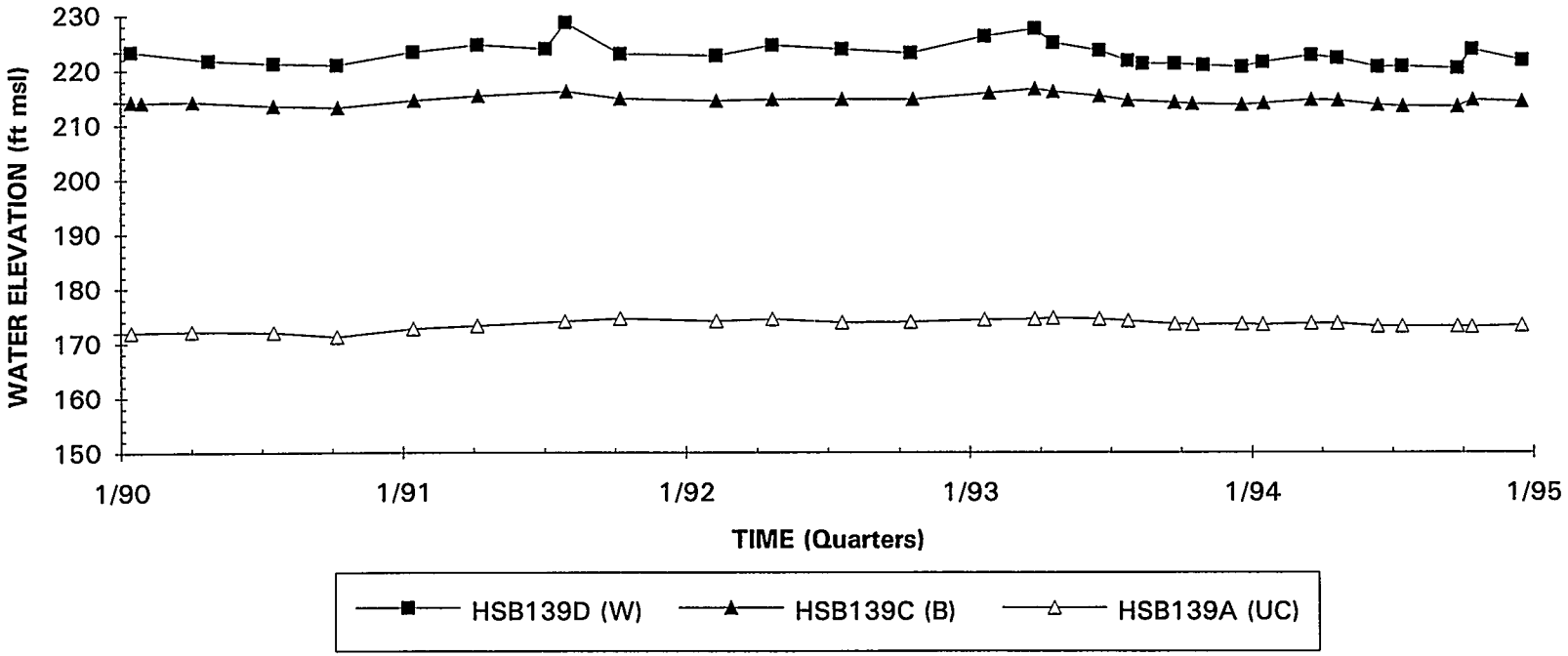
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB138D



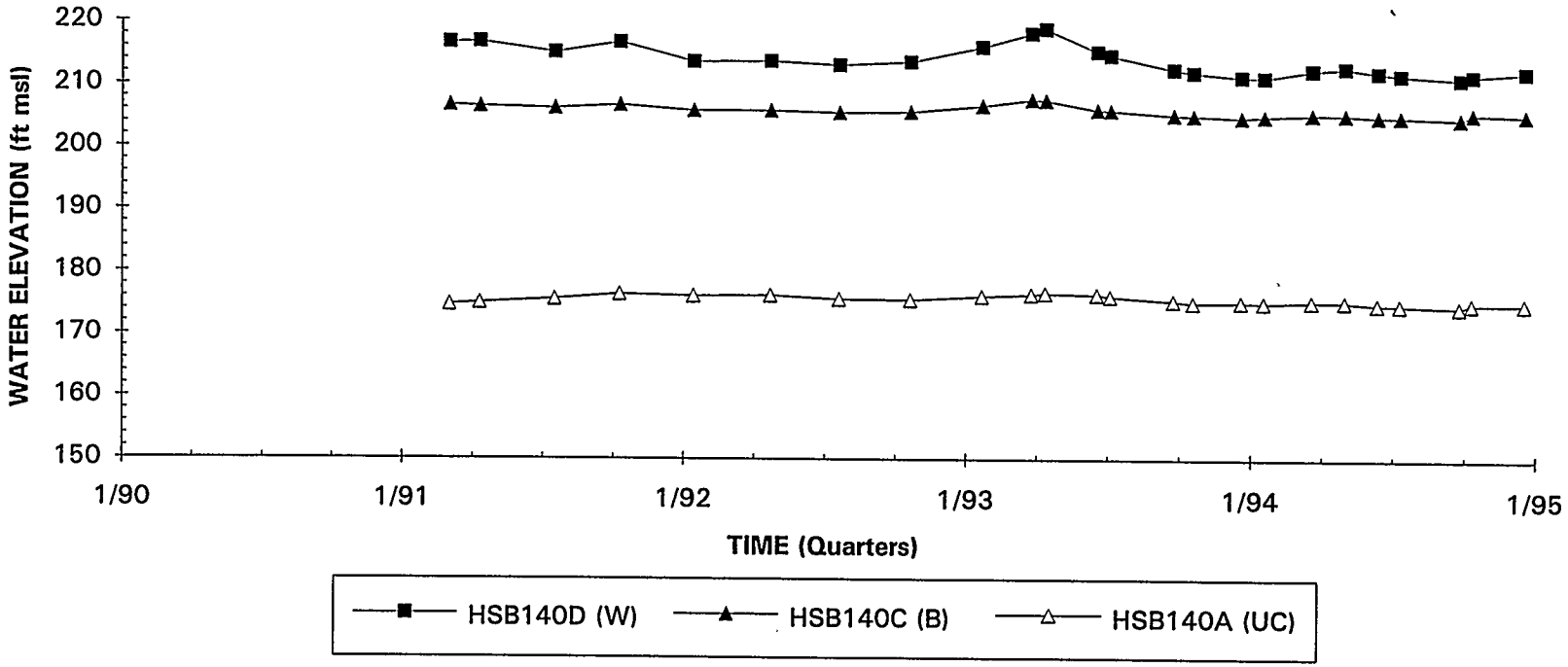
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB139

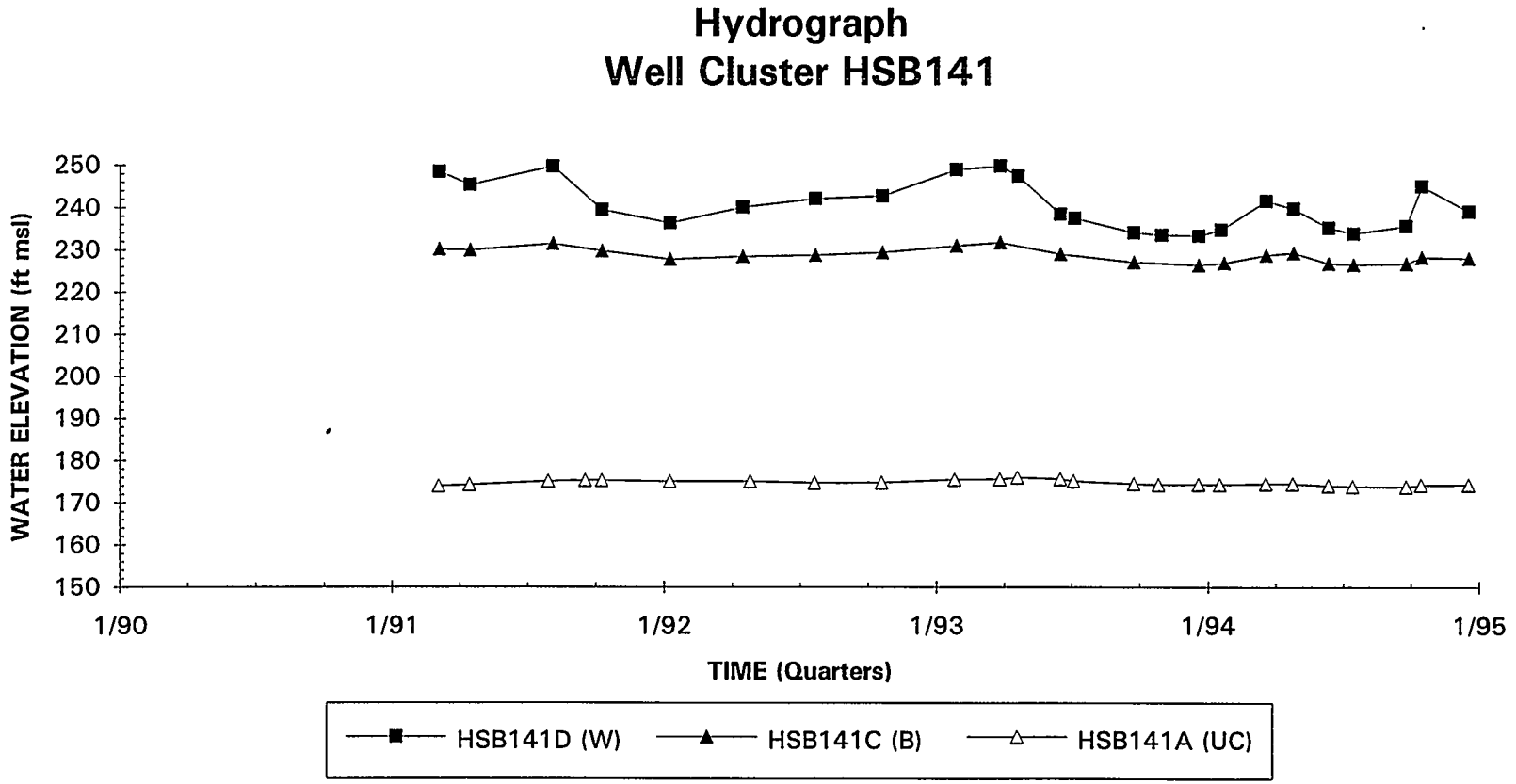


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB140

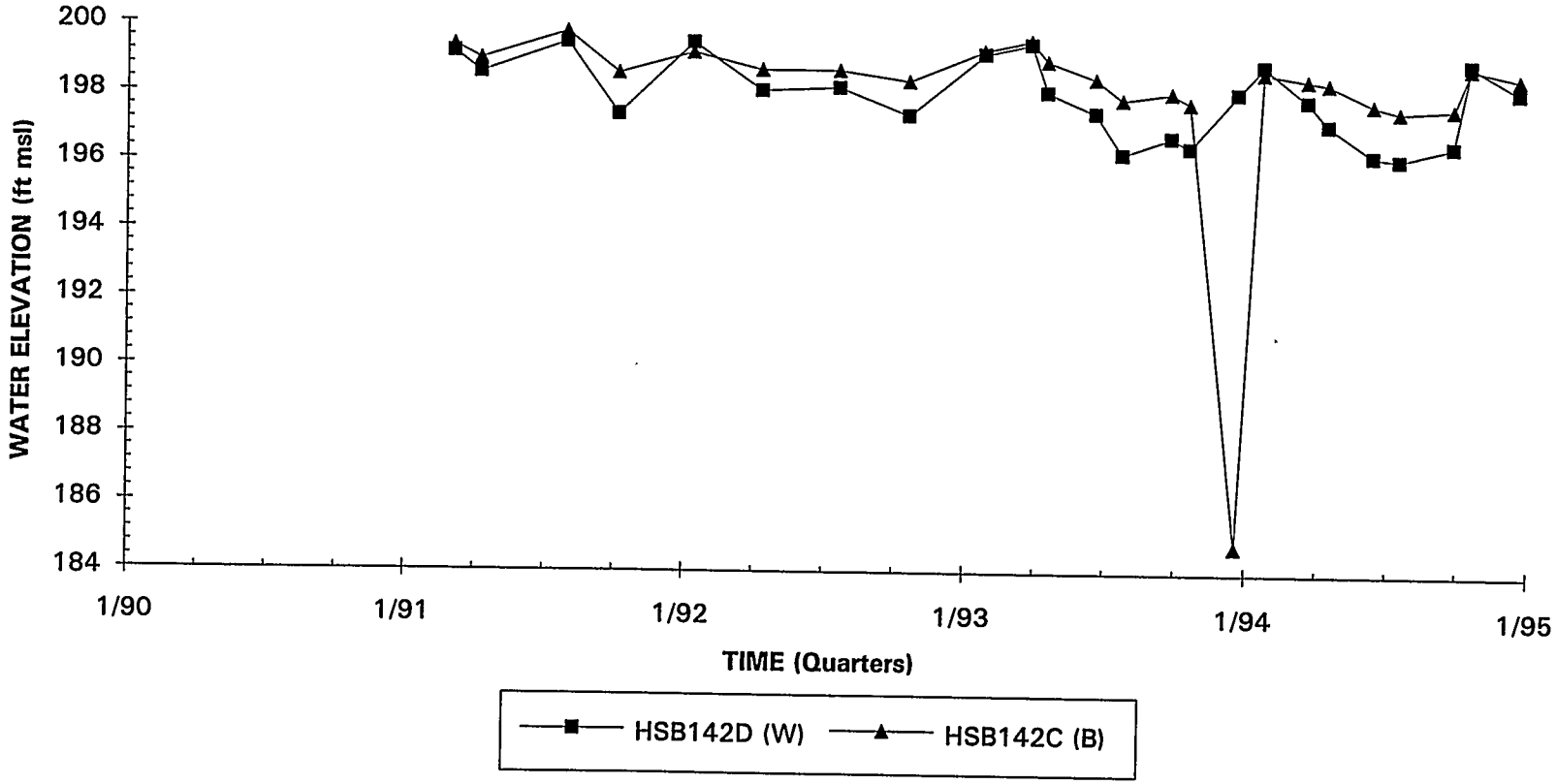


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



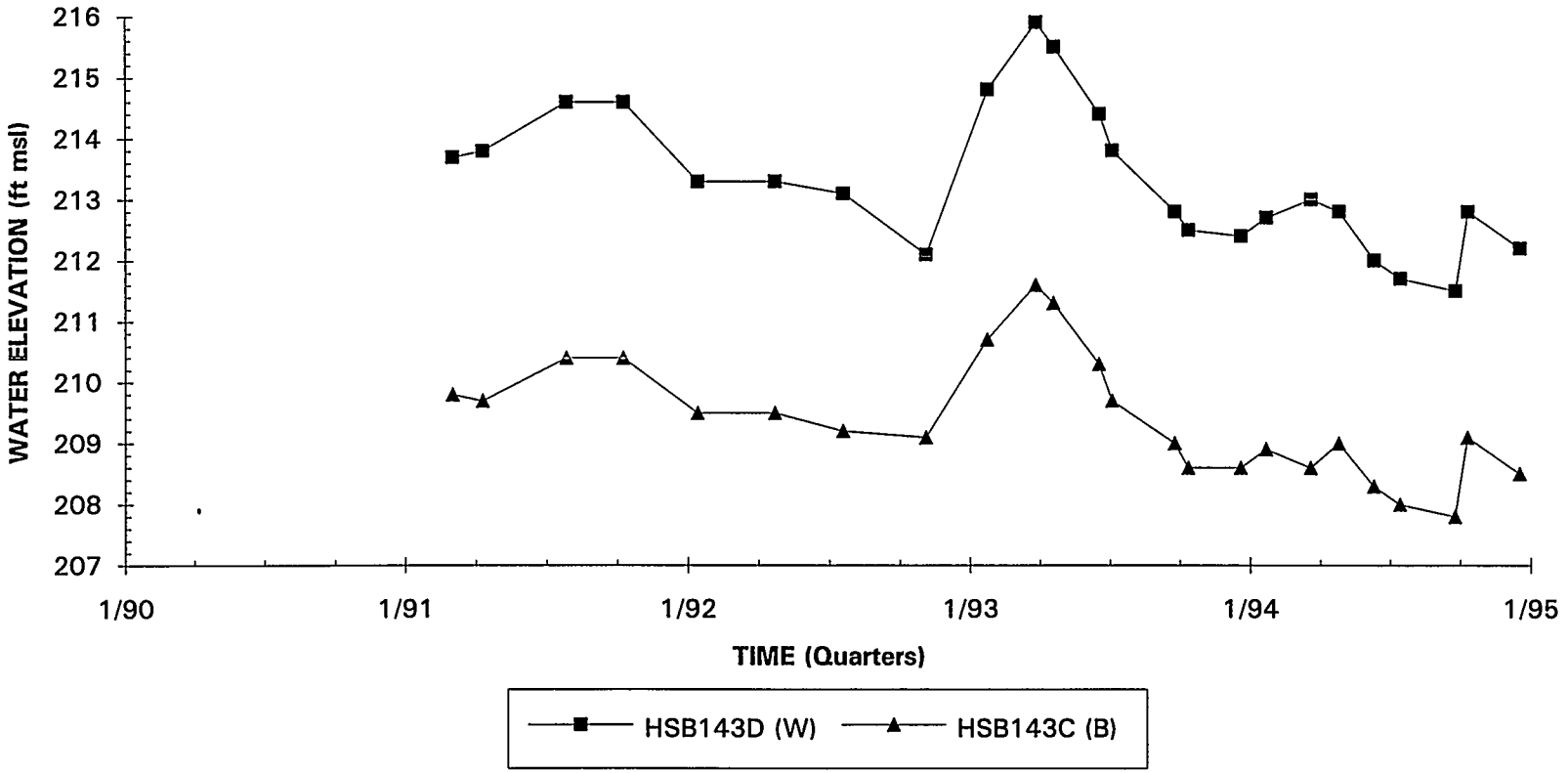
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB142



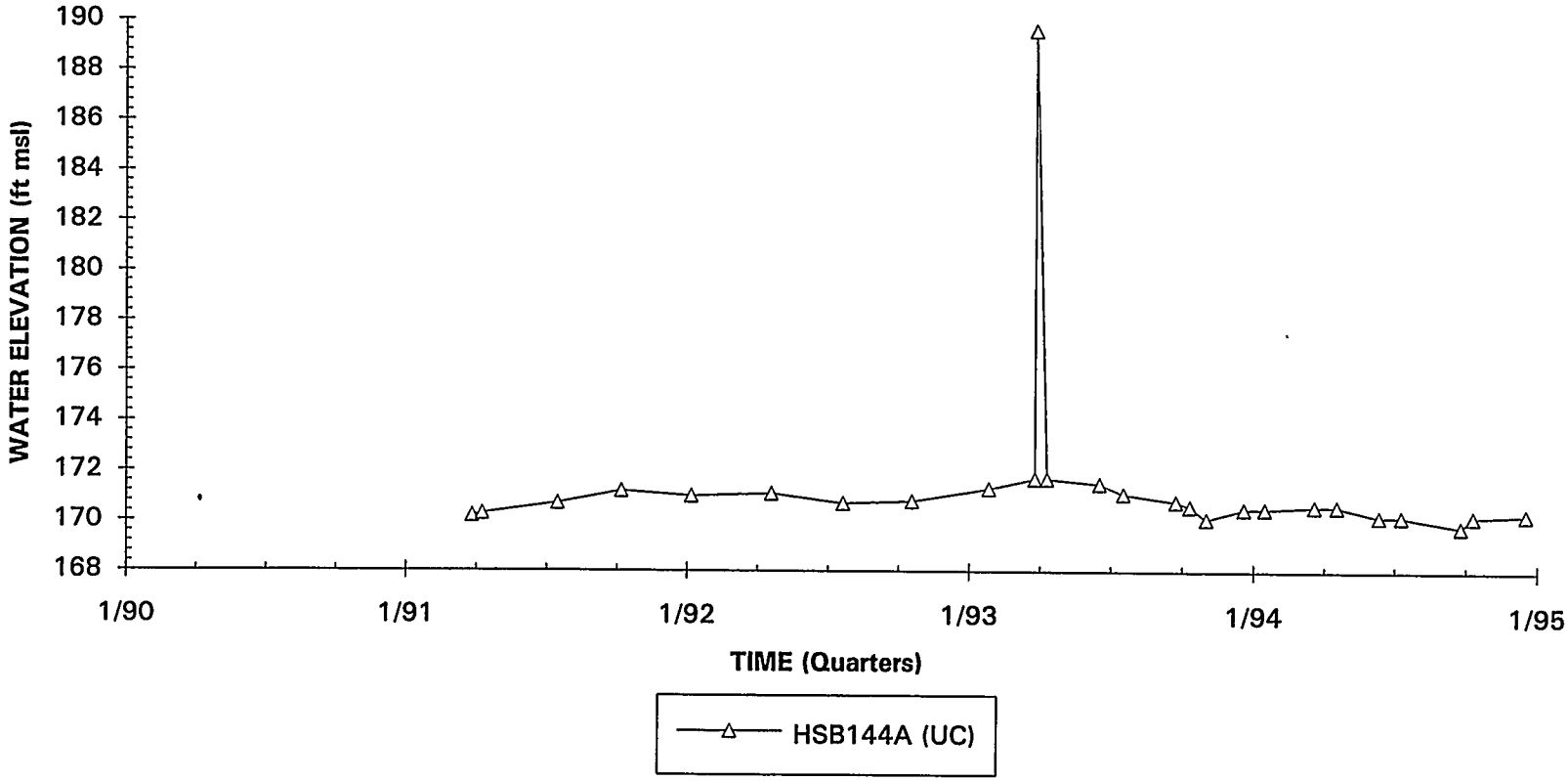
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB143



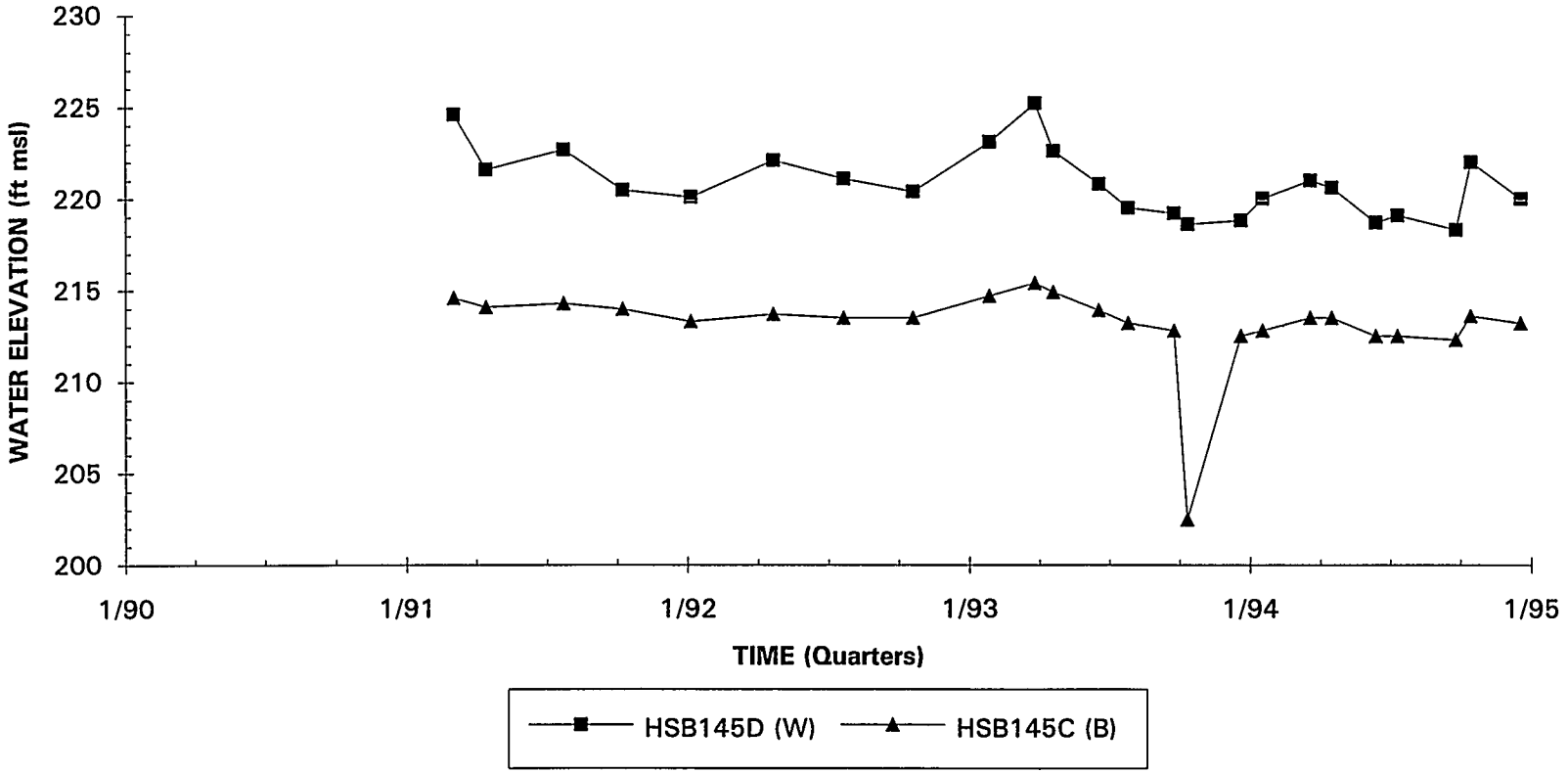
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB144A



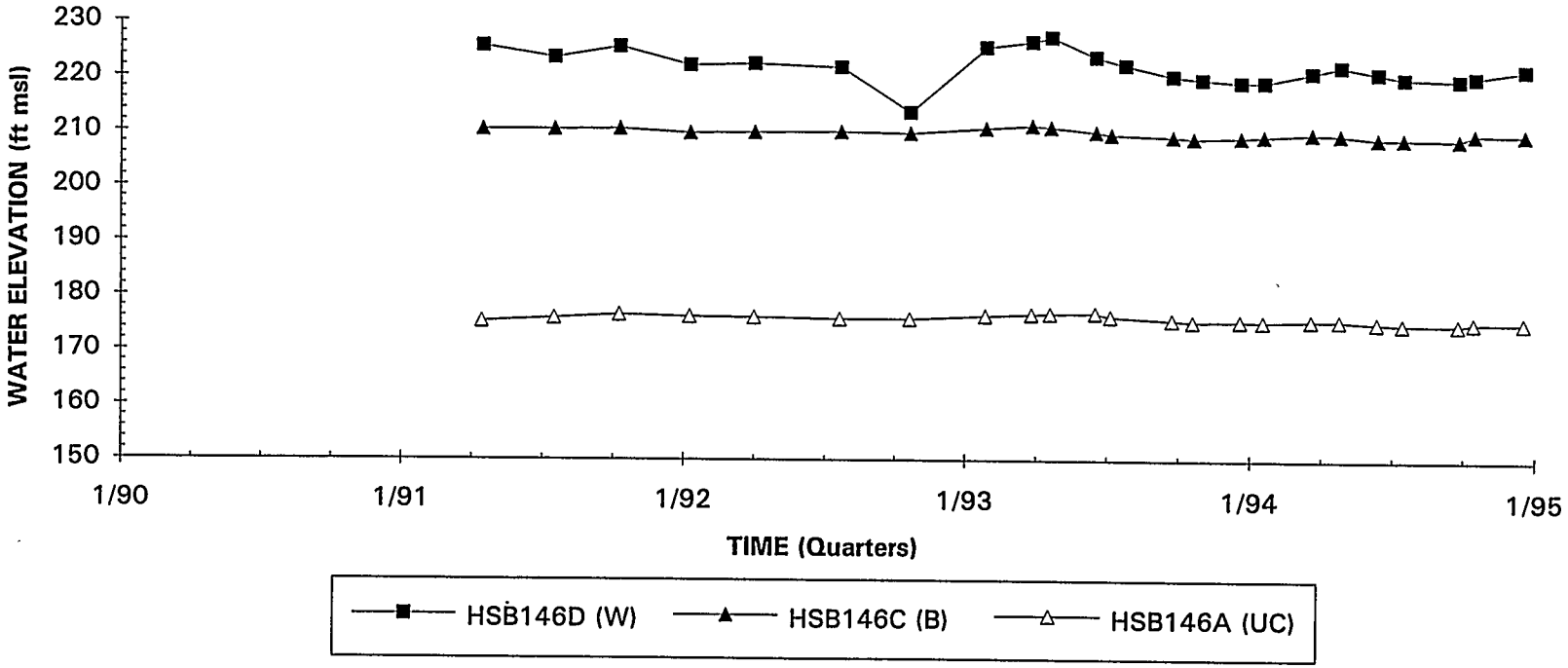
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB145



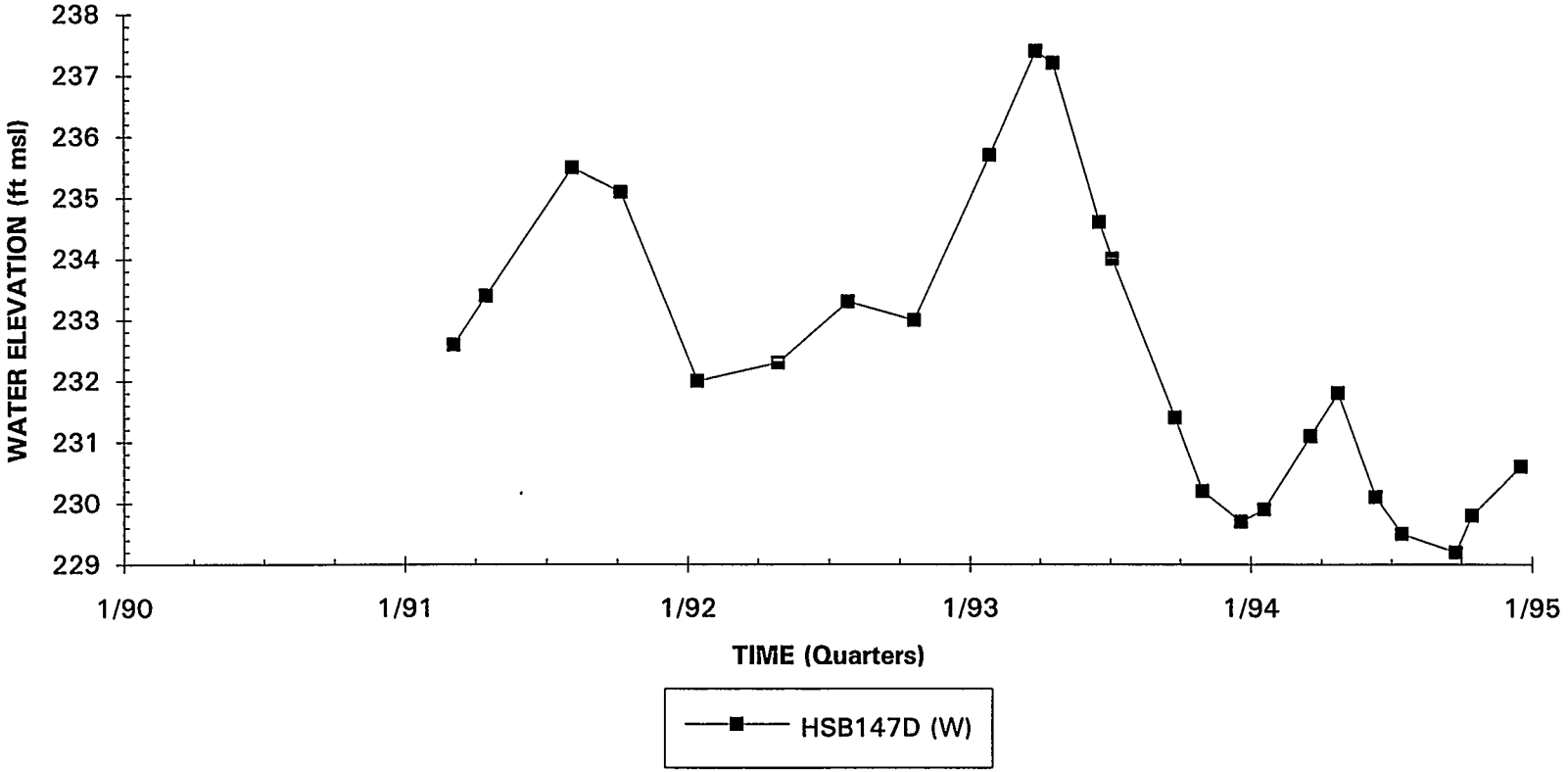
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB146



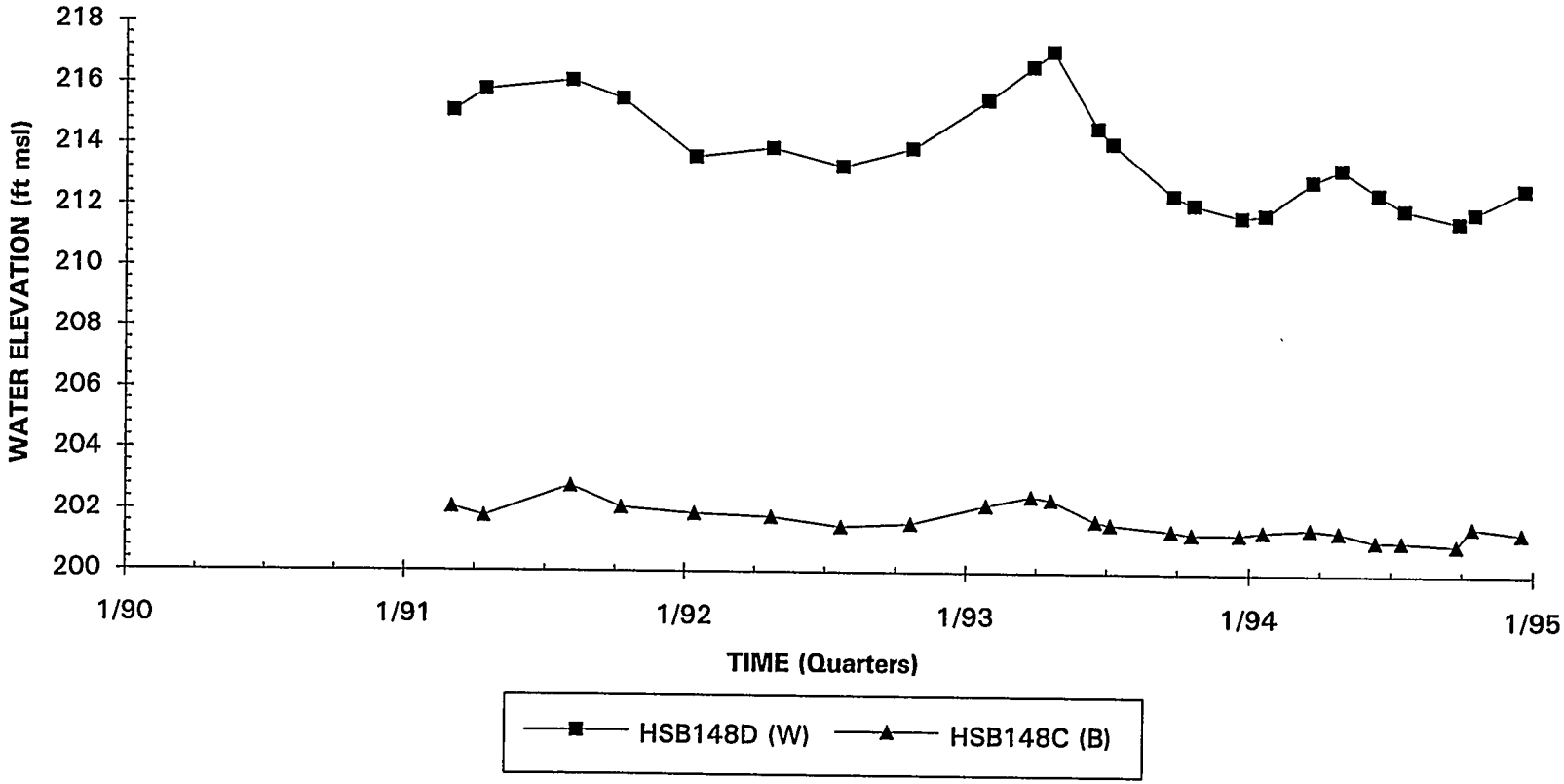
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB147D



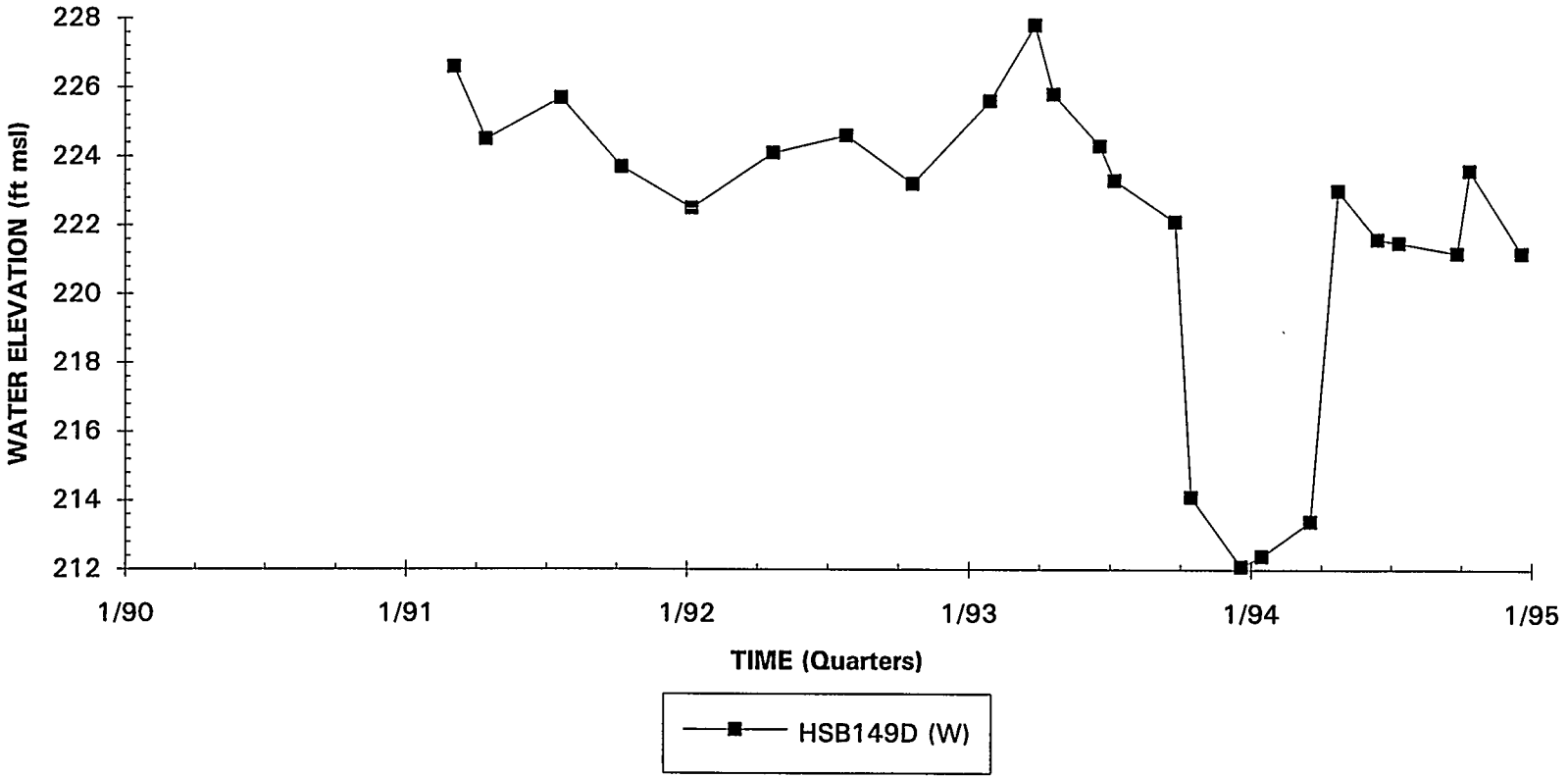
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB148

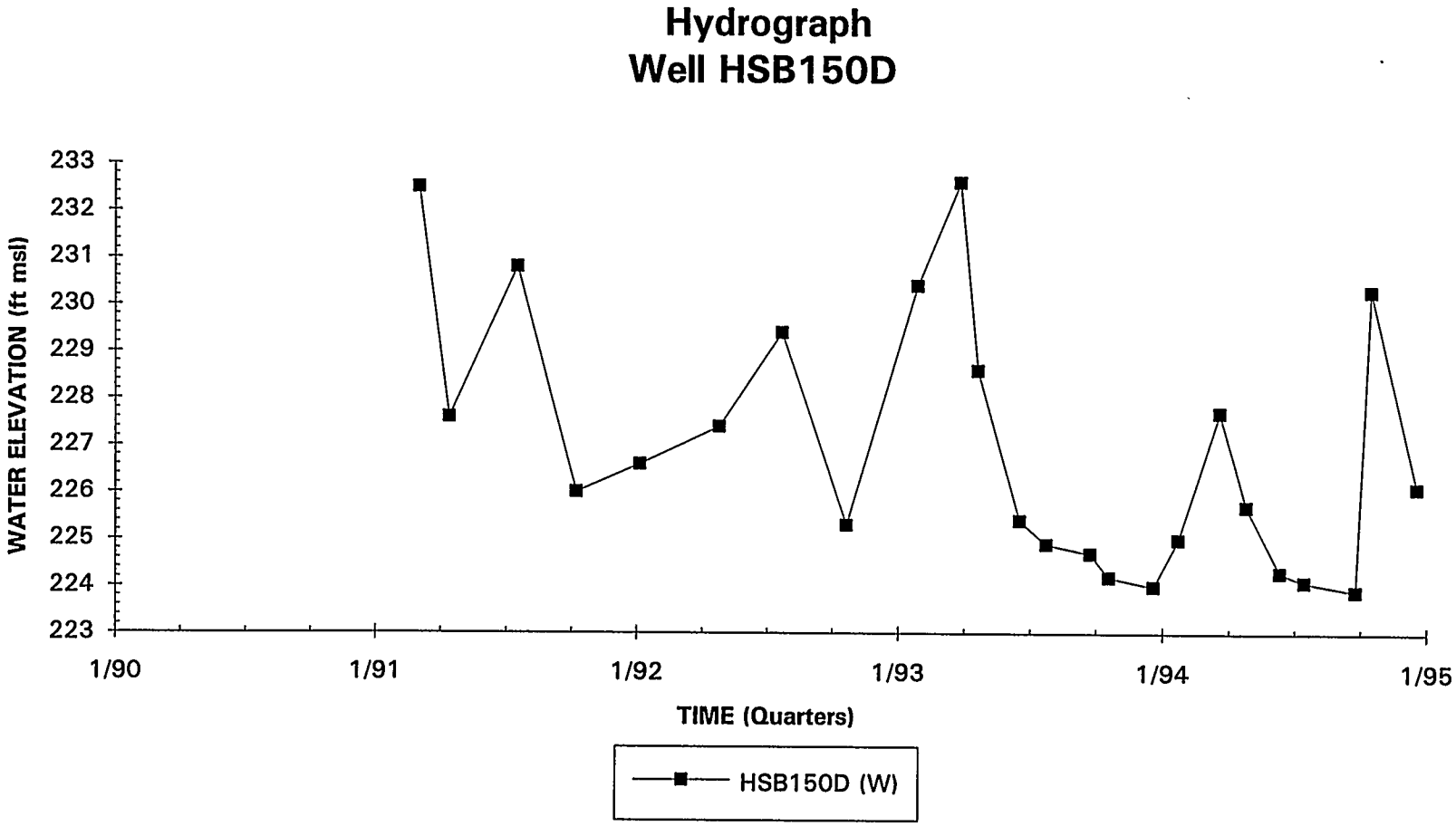


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSB149D

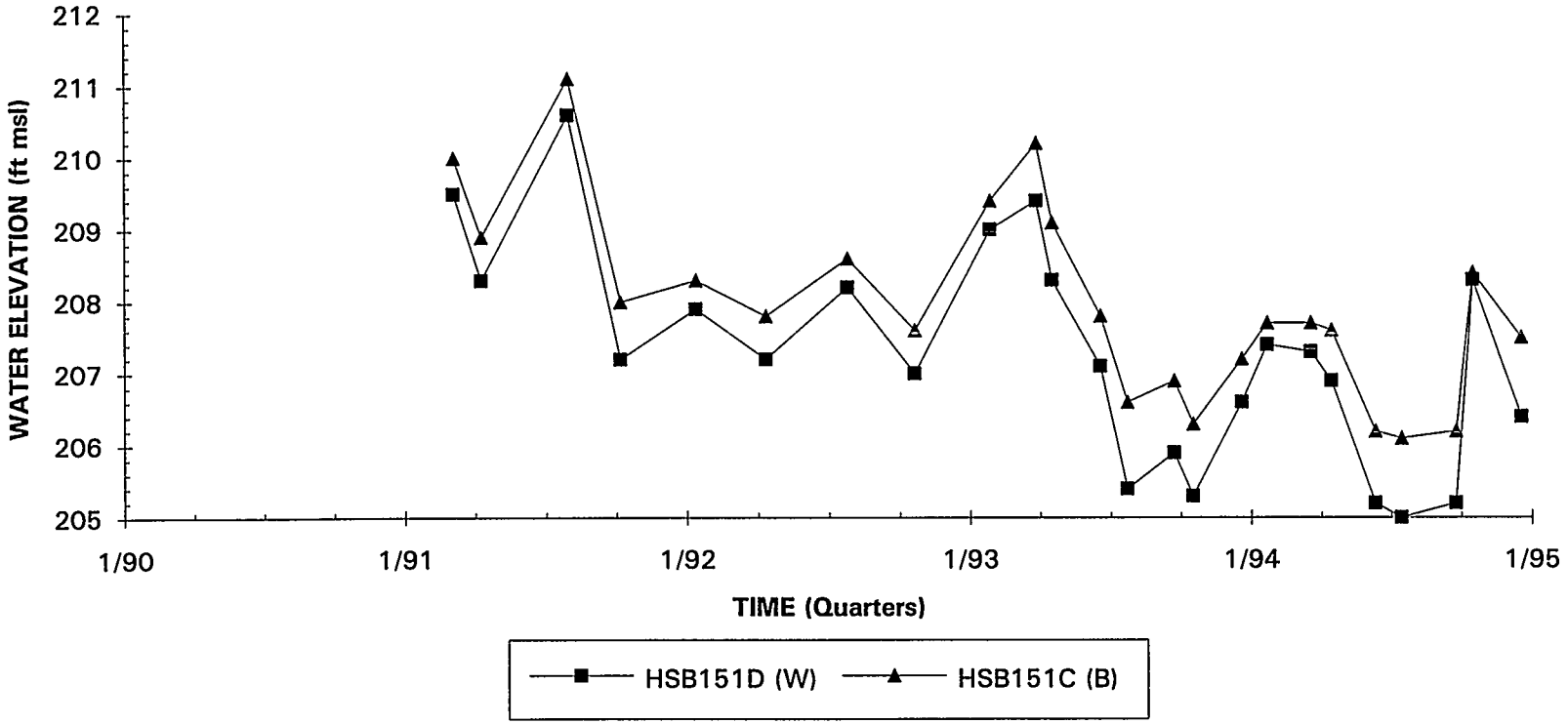


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



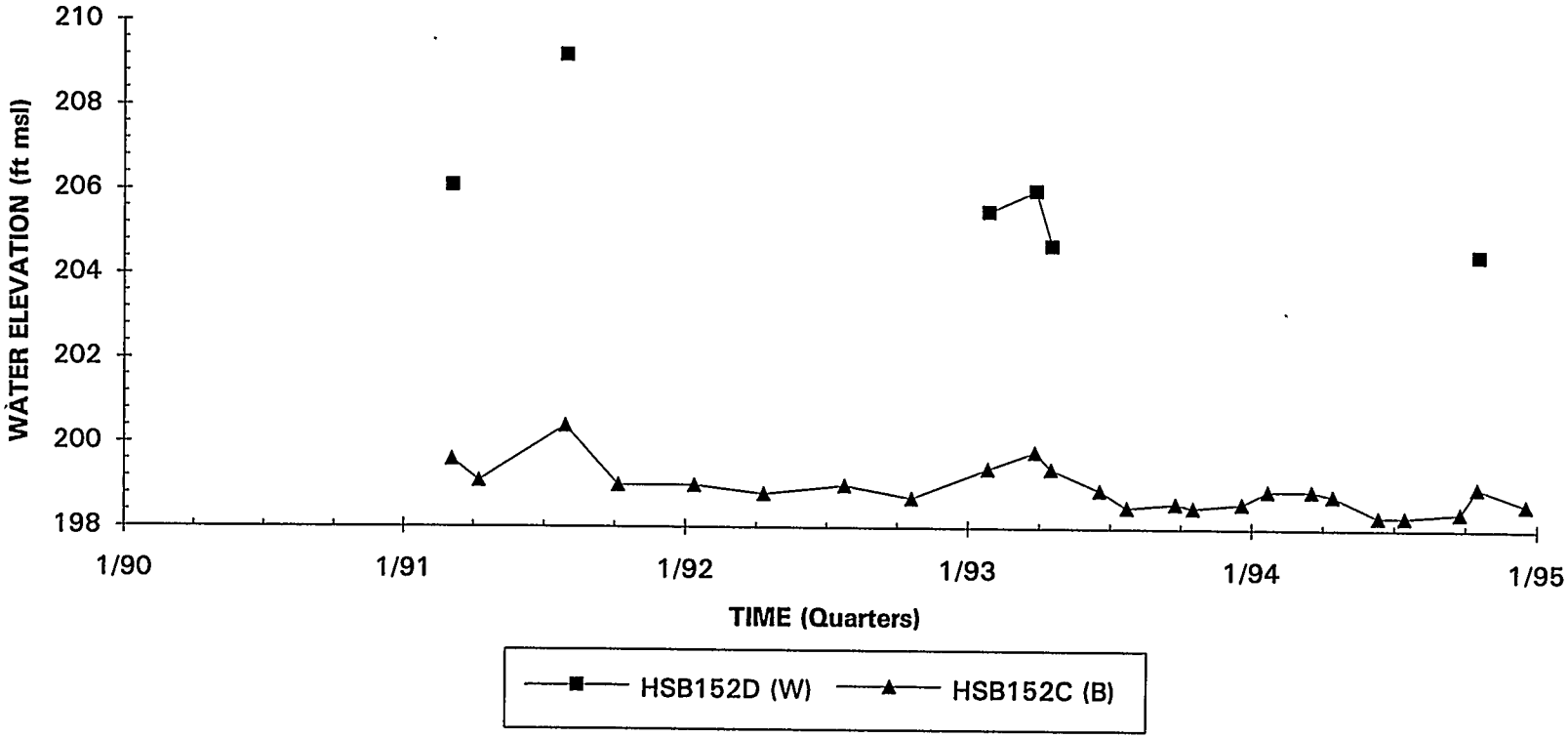
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSB151

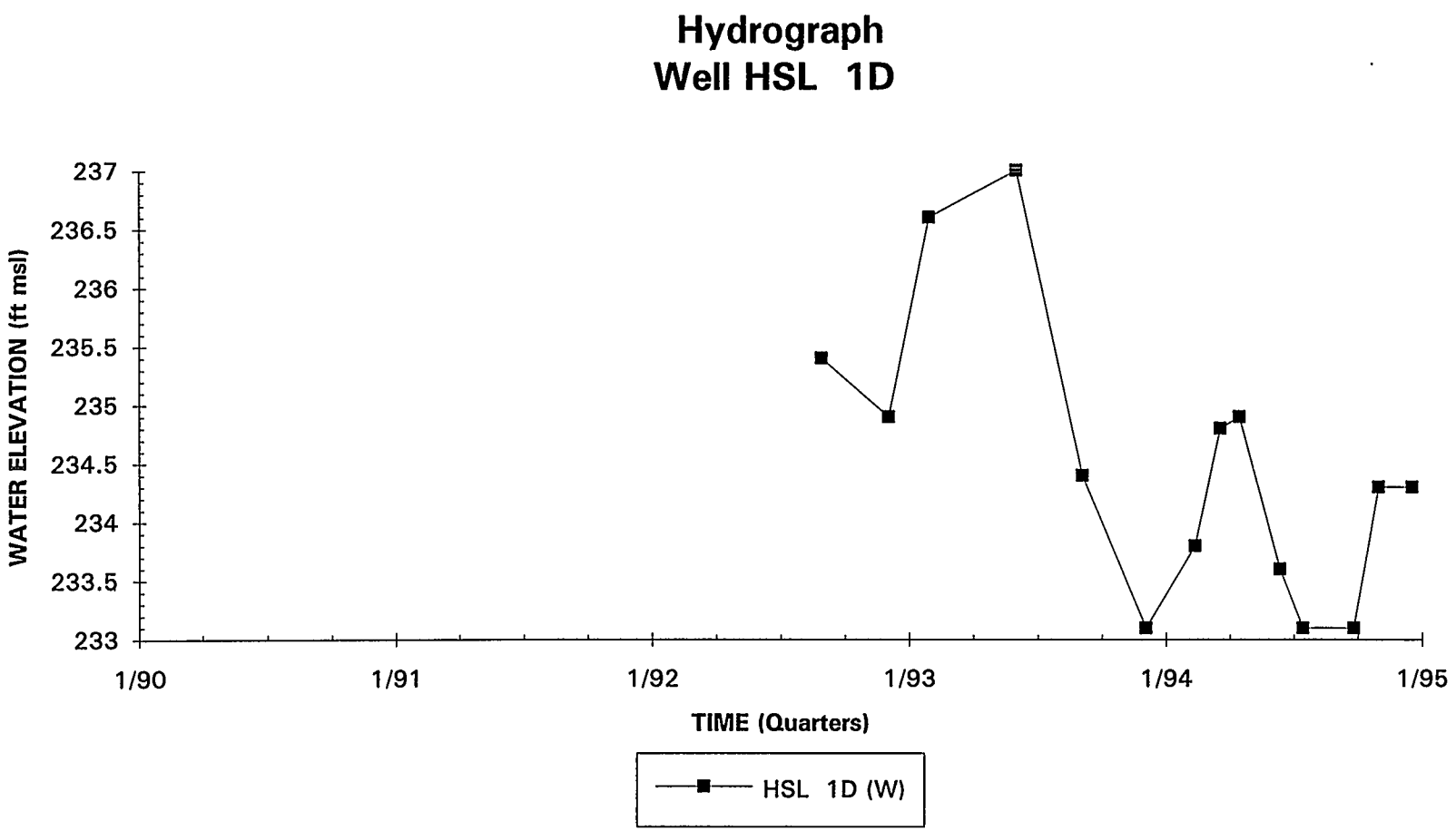


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

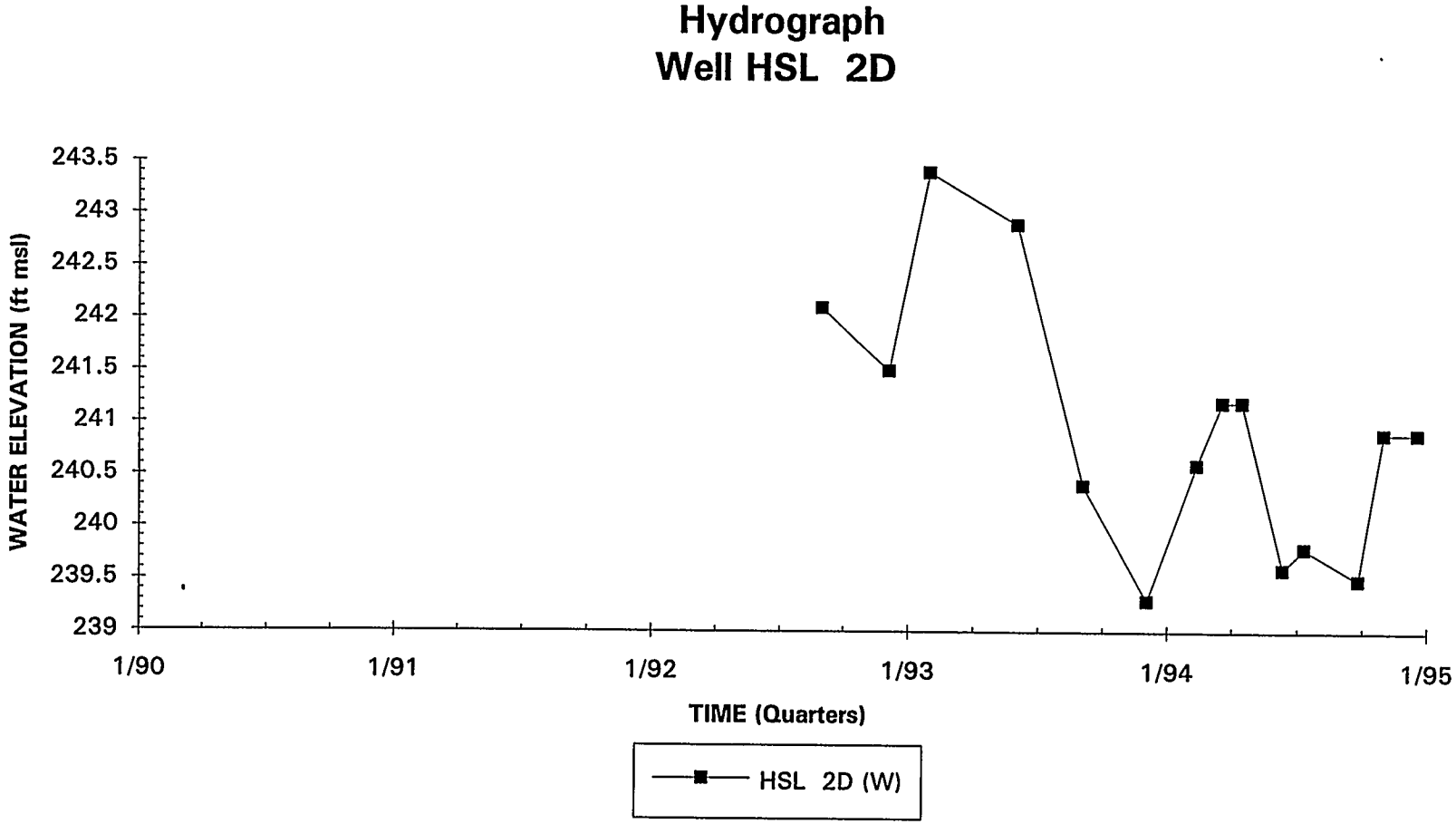
Hydrograph
Well Cluster HSB152



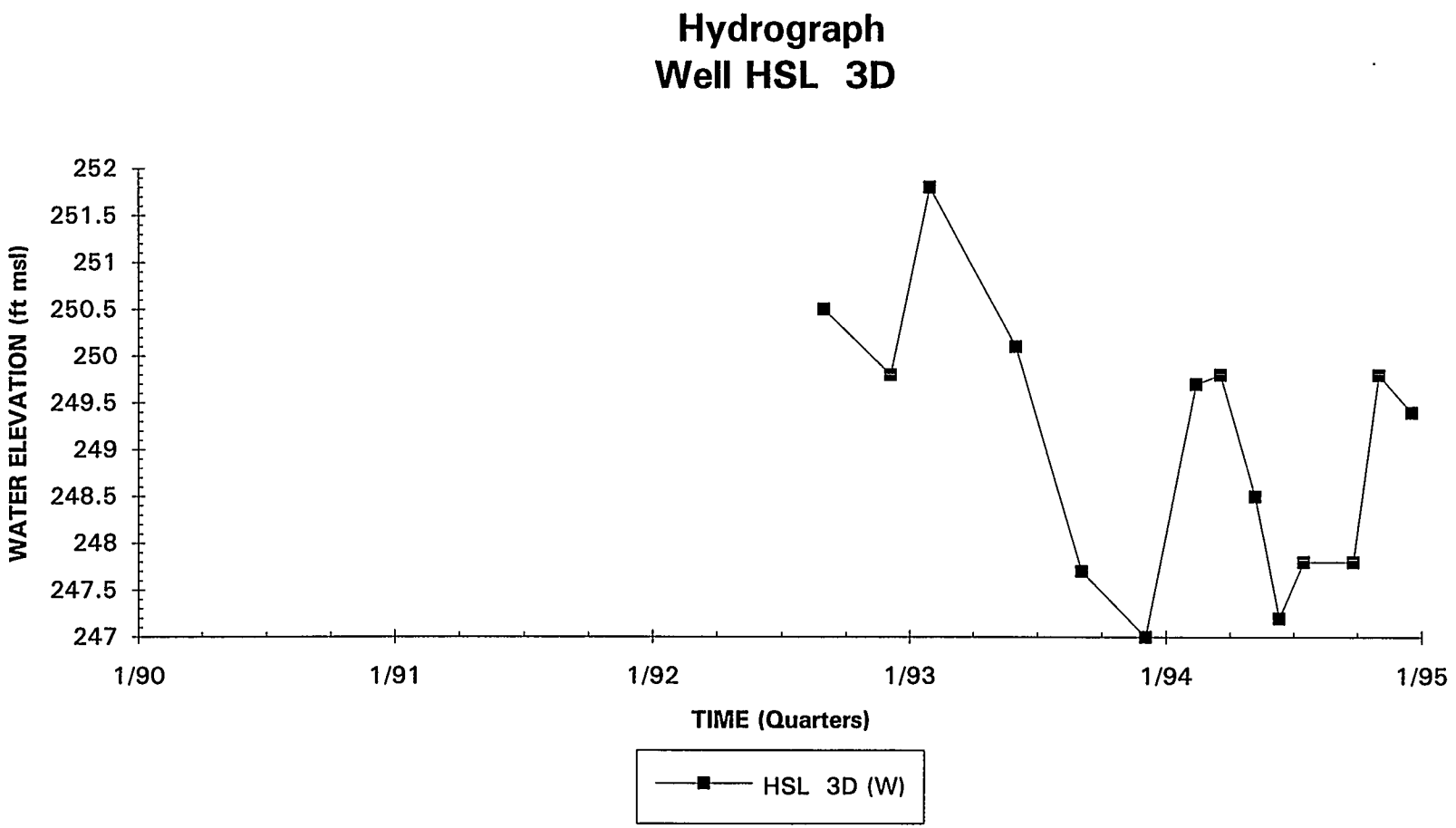
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



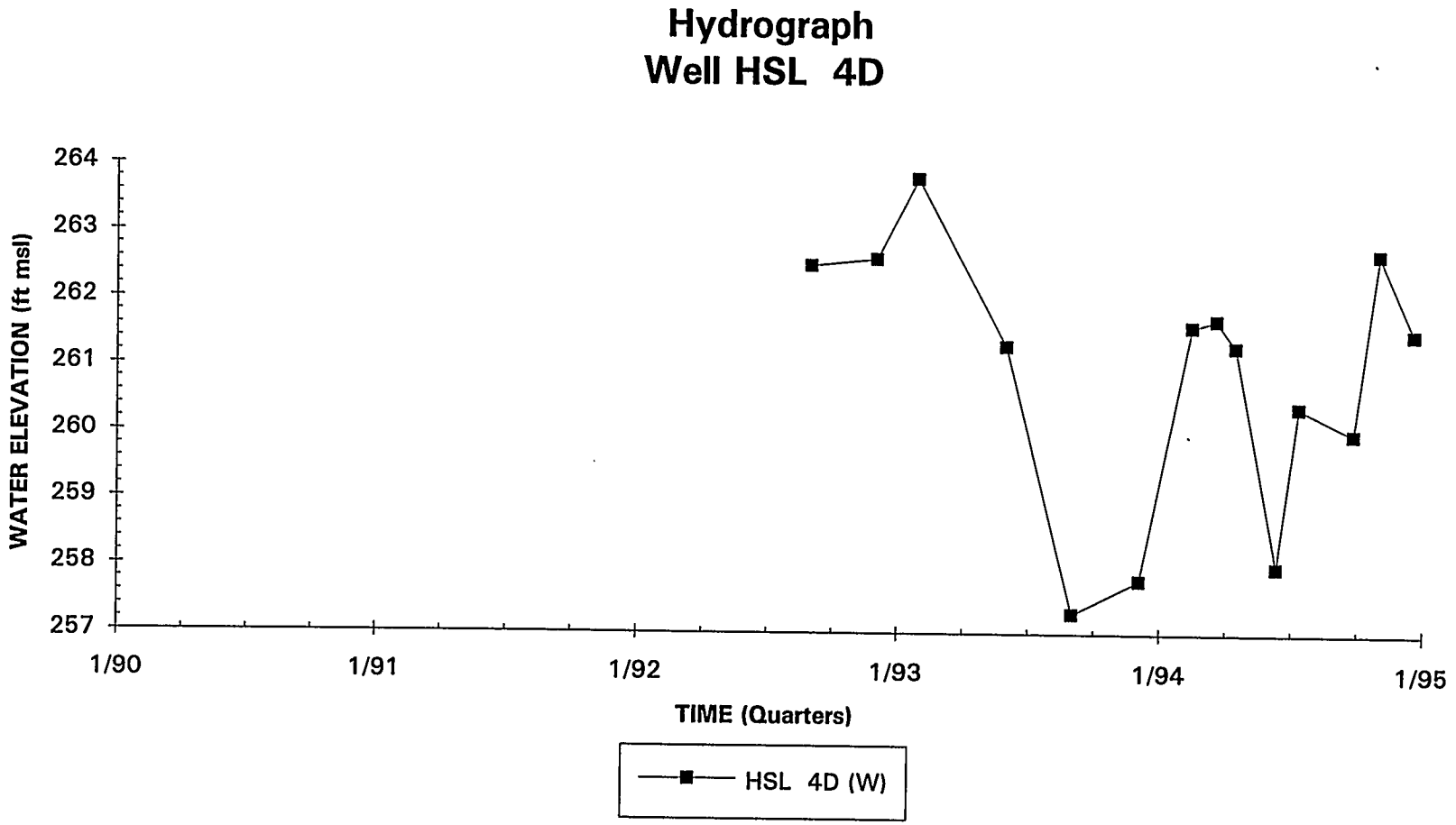
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



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

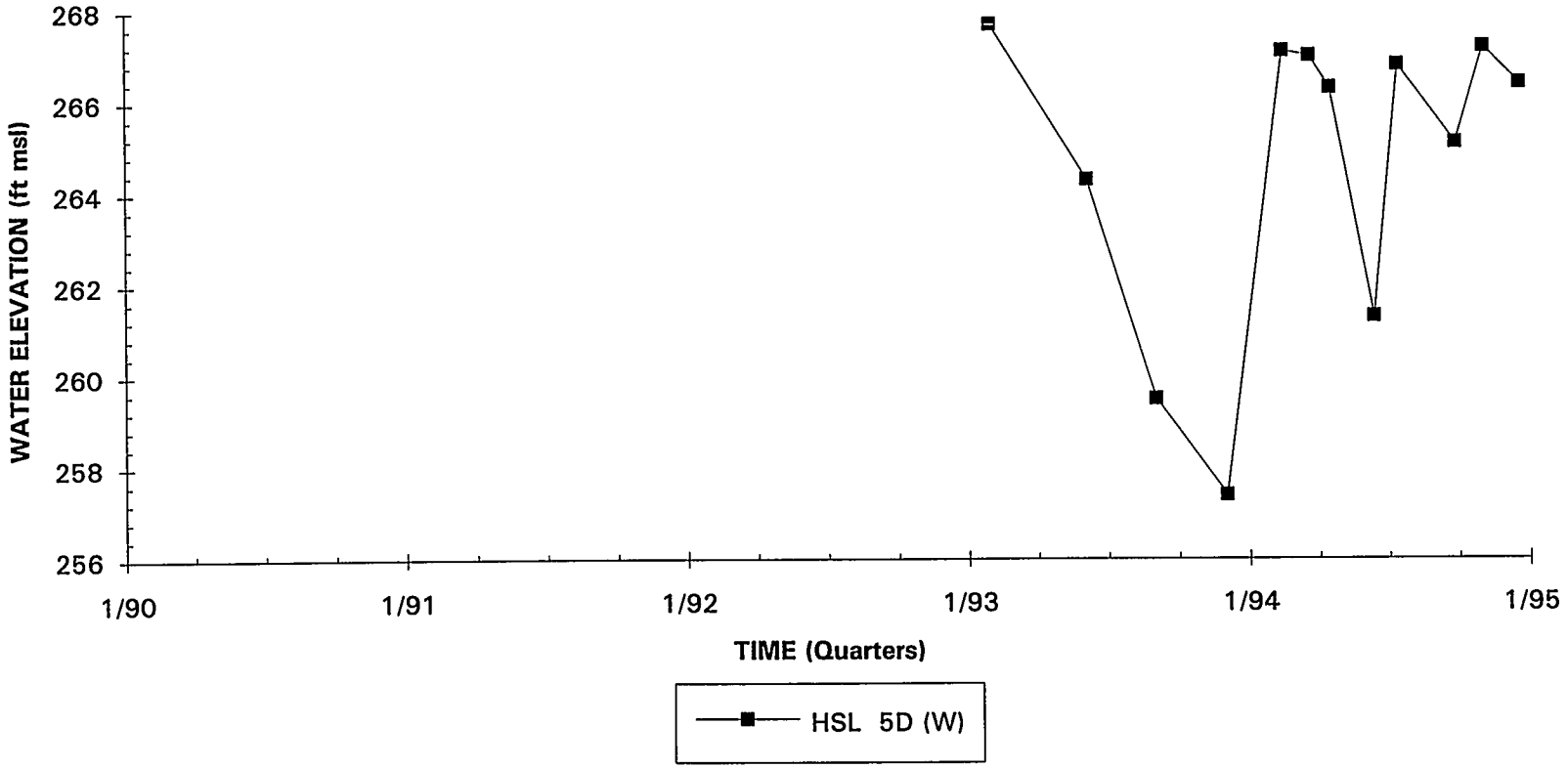


Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)



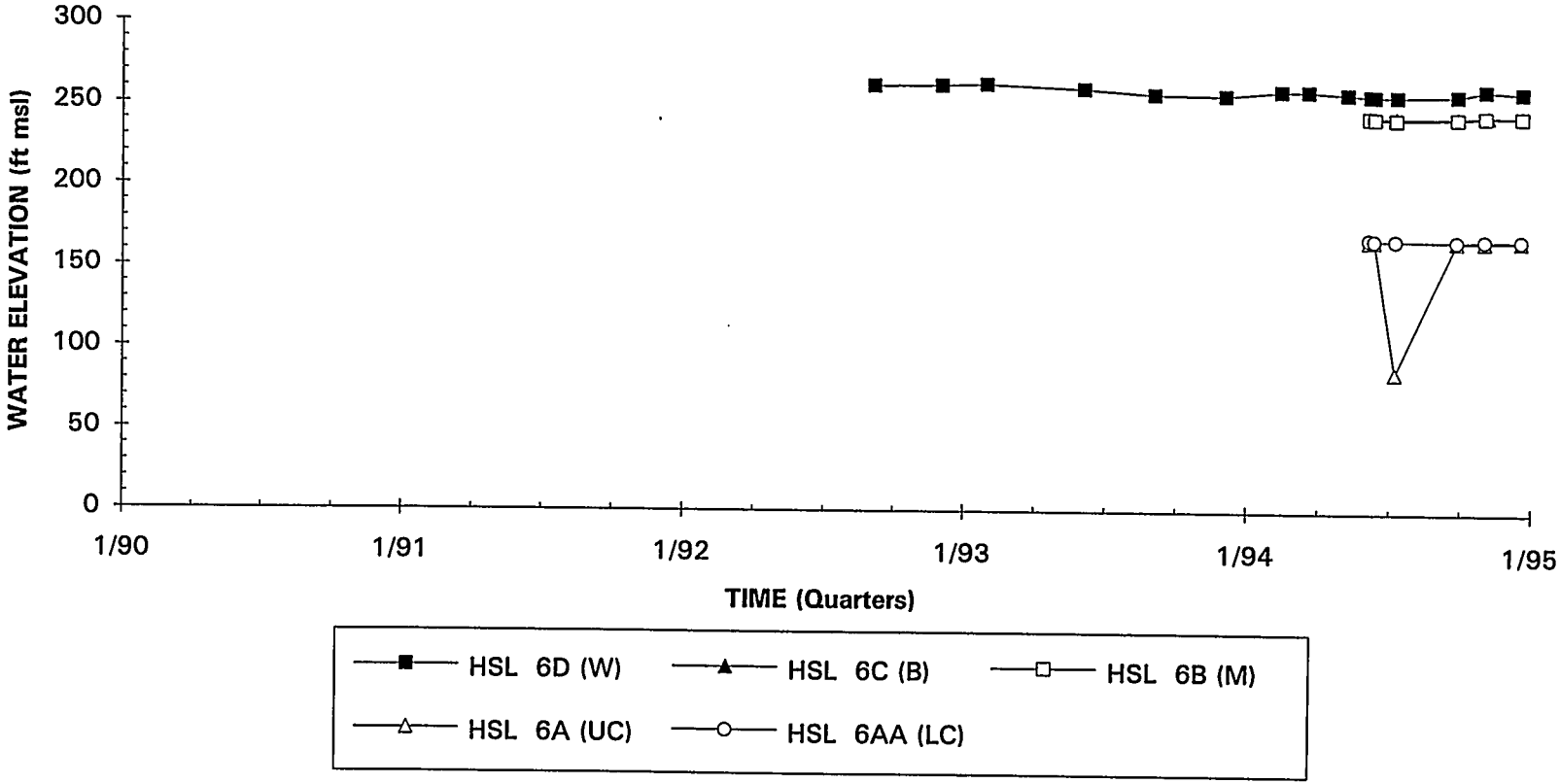
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSL 5D



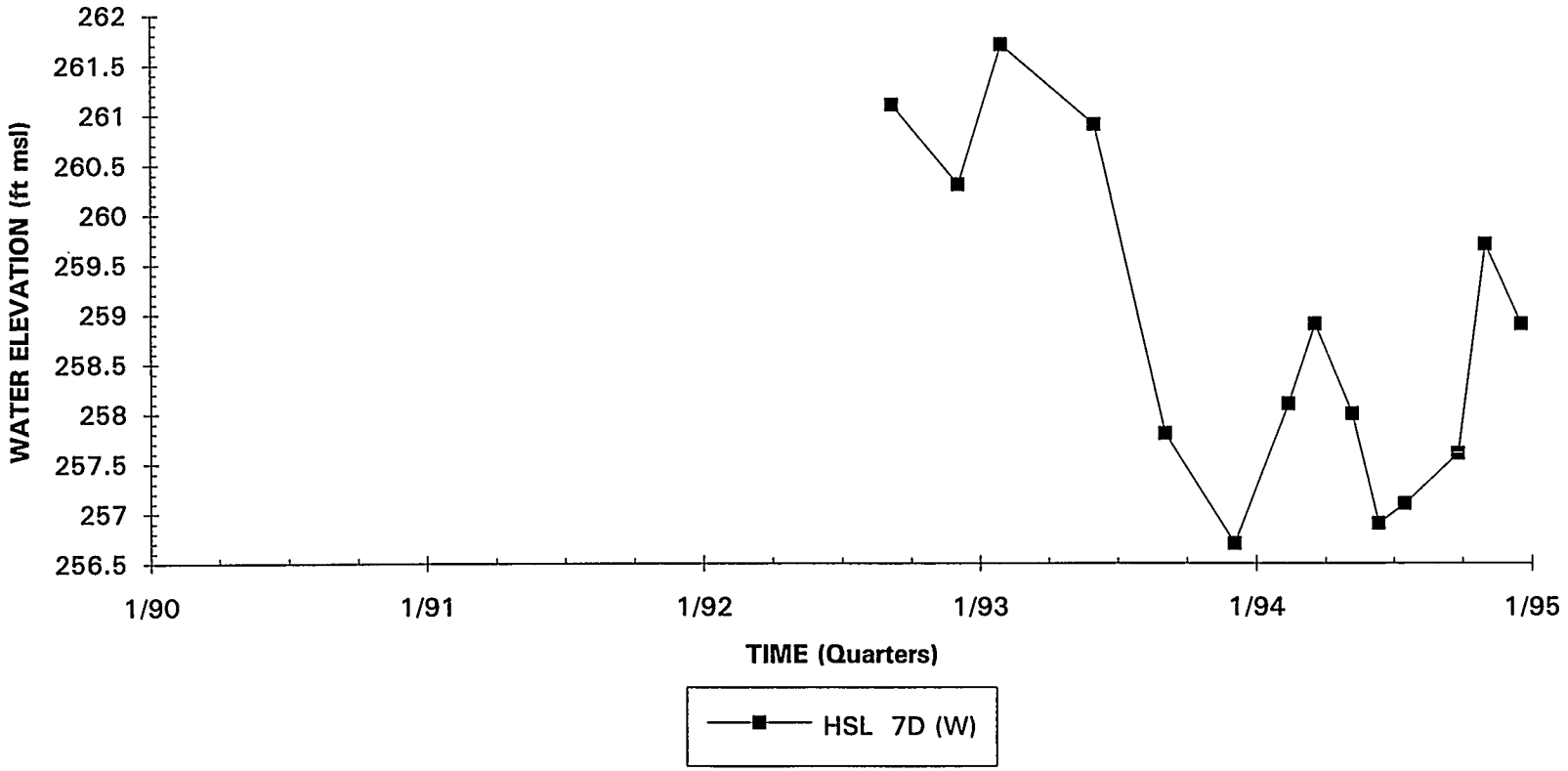
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well Cluster HSL 6



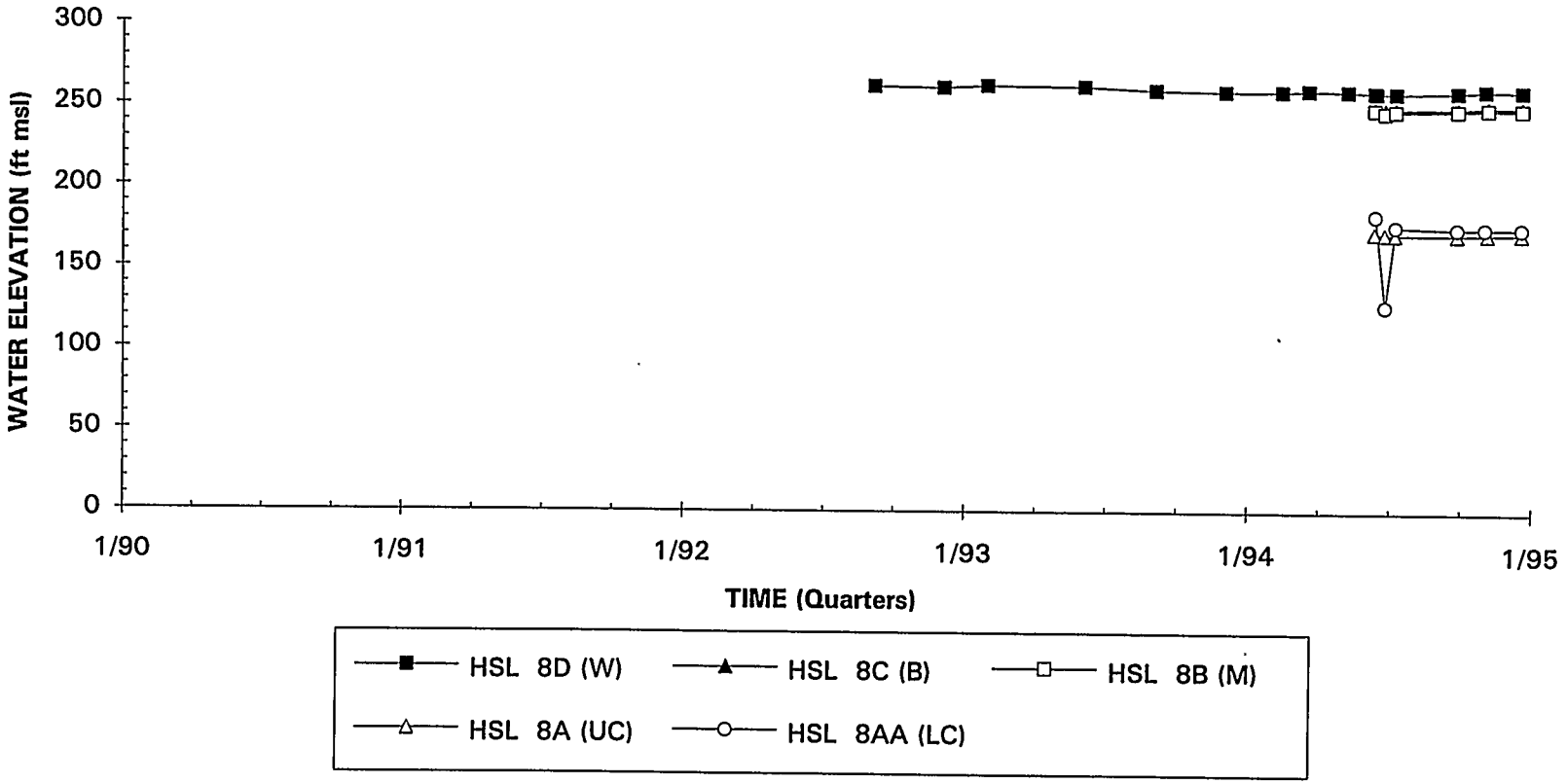
Note: W=Water Table (IIB2); B=Barnwell (IIB1); M=McBean (IIB1); UC=Upper Congaree (IIA); MC=Middle Congaree (IIA); LC=Lower Congaree (IIA)

Hydrograph
Well HSL 7D



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

Hydrograph
Well Cluster HSL 8



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