TNX AREA GROUNDWATER MONITORING REPORT (U)

1996 ANNUAL REPORT

Publication Date: April 1997

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Authorized Derivative Classifier
and Reviewing Official:

UNCLASSIFIED
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Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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C. D. Reeves, P.E., R.O.

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Key Words

**TBG wells
TIR wells
TNX wells
trichloroethylene
XSB wells**

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Abstract

During 1996, samples from selected wells of well cluster P 26 and the TBG, TIR, TNX, TRW, XSB, and YSB well series at the TNX Area were analyzed for selected heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents. Sixteen parameters exceeded the final Primary Drinking Water Standards (PDWS).

Trichloroethylene exceeded the final PDWS most frequently. Antimony, arsenic, beryllium, carbon tetrachloride, chloroform, chromium, copper, dichloromethane, gross alpha, lead, mercury, nitrate, nitrate-nitrite, nitrite, tetrachloroethylene, or trichloroethylene were elevated in one or more wells during the year. Groundwater flow directions and rates in the Unconfined Aquifer were similar from quarter to quarter during the year.

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Executive Summary

The P 26 well cluster and the TBG, TNX, TRW, XSB, and YSB well series at the TNX Area are monitored quarterly and the TIR well series was monitored monthly from September through December 1996 for selected constituents to obtain data for future characterizations, groundwater modeling studies, and remediation activities. In addition, the wells are monitored, as requested, for other constituents as part of the Savannah River Site (SRS) Groundwater Monitoring Program.

During 1996, 57 wells of the P 26 well cluster and the TBG, TIR, TNX, TRW, XSB, and YSB well series were scheduled for analyses for selected heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents. This report provides the results that exceeded final Primary Drinking Water Standards (PDWS) and SRS flagging criteria for those wells that were successfully sampled.

During the year, antimony, arsenic, beryllium, carbon tetrachloride, chloroform, chromium, copper, dichloromethane (a common laboratory contaminant), gross alpha, lead, mercury, nitrate, nitrate-nitrite, nitrite, tetrachloroethylene, or trichloroethylene exceeded the final PDWS in one or more wells in the TNX Area. Trichloroethylene was detected most frequently, occurring in elevated concentrations in 24 wells during the year.

Groundwater flow in the Unconfined Aquifer beneath the TNX Area was consistently to the southwest each quarter. The estimated flow rates were 880, 990, 950, and 950 ft/year for first, second, third, and fourth quarters, respectively. Reliable estimates of flow directions and rates in the Semiconfined Aquifer could not be calculated because of the near-linear distribution of the monitoring wells.

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Introduction

The TNX Area, located in the southwest part of the Savannah River Site (SRS) (Figure 1, Appendix C), is operated by the Savannah River Technology Center, formerly known as the Savannah River Laboratory. The TNX Area Operable Unit includes the TNX Burying Ground, the Old TNX Seepage Basin, the New TNX Seepage Basin, and the groundwater beneath the area. The following description outlines important events in the TNX Area:

- The TNX Burying Ground was built in 1953 to dispose of debris resulting from the explosion of an experimental evaporator in the TNX Area earlier that year. The debris included conduit, drums, tin, and structural steel contaminated with uranyl nitrate and depleted uranium. No additional wastes were disposed of in the TNX Burying Ground after the Old Radioactive Waste Burial Ground was opened later in 1953 (Dunaway et al., 1987b).
- Between 1980 and 1984, most of the waste buried at the TNX Burying Ground was excavated and sent to the New Radioactive Waste Burial Ground. The remaining waste lies beneath asphalt, buildings, and transformer pads. An estimated 60 pounds of uranyl nitrate remains buried at the TNX Burying Ground, constituting 5 percent of the initial inventory (Dunaway et al., 1987b; Nichols, 1993).
- The Old TNX Seepage Basin was an unlined excavation designed to contain waste water until it could seep into the underlying sediments that were believed to act as a natural ion-exchange media. A 6 in. pipe connected the inlet section of the basin to the seepage section, and a similar size pipe carried overflow into the adjacent floodplain during periods of unusually high flow and precipitation to the basin (Nichols, 1993). The Old TNX Seepage Basin received process waste water between 1958 and 1980 from pilot scale tests conducted in the TNX Area for the Defense Waste Processing Facility (DWPF) and the General Separations Area. The waste discharged to the basin included large quantities of mercury, primarily in the form of mercuric nitrate, and other heavy metals, sodium compounds, and depleted uranium and other radionuclides (Dunaway et al., 1987a).
- Discharge of waste water to the Old TNX Seepage Basin ceased in 1980, and the basin was closed in 1981. During closure, the basin wall was breached, and the impounded water was drained into the adjacent wetlands. The basin was then backfilled with a sand and clay mixture and covered with a clay cap (Dunaway et al., 1987a; Nichols, 1993). Part of the capped Old TNX Seepage Basin was revegetated, and the remainder was covered with asphalt and used for equipment storage (Nichols, 1993).
- The New TNX Seepage Basin, an unlined excavation constructed to replace the Old TNX Seepage Basin, operated between 1980 and 1988 (Arnett et al., 1994; Nichols, 1993). While in operation, the basin received waste from pilot scale chemical processing tests at the DWPF and the General Separations Area. The waste included nonradioactive DWPF sludge; simulated, nonradioactive salt supernate; glass frit; other processing chemicals; and laboratory sink waste water (Heffner and Exploration Resources, 1991). During periods of unusually high discharges, the seepage section of the basin overflowed to Outfall X-013A, which, in turn, discharged to a local surface depression (Nichols, 1993).
- On August 13, 1988, discharges to the New TNX Seepage Basin were rerouted to the TNX Effluent Treatment Facility (Nichols, 1993).
- A closure plan for the New TNX Seepage Basin was submitted to SCDHEC in March 1992 (Arnett et al., 1994).
- The SRS Federal Facility Agreement of November 24, 1992, which directs the comprehensive remediation of SRS, identified the TNX Burying Ground, the Old TNX Seepage Basin, the New TNX Seepage Basin, and the TNX groundwater as units regulated under the Resource Conservation and

Recovery Act (RCRA)/Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) program.

- An interim-action proposed plan for the TNX groundwater unit was prepared during 1993 for submittal to the U.S. Environmental Protection Agency (EPA). The plan proposed the evaluation of a hybrid treatment strategy for remediating the groundwater contamination at TNX Area. The strategy consisted of a combination of pump-and-treat and *in situ* groundwater treatments (Arnett et al., 1994; WSRC, 1993).
- A waste-site assessment report and a groundwater quality assessment and corrective-action feasibility plan for the New TNX Seepage Basin was submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) for review (Arnett et al., 1994).
- In October 1994, the interim-action record of decision announced that hybrid groundwater corrective action was selected to achieve the interim-action goal and address contamination within the TNX groundwater unit. The method employs four groundwater extraction wells with an air stripper and one recirculation well (WSRC, 1994).
- The RCRA Facility Investigation/Remedial Investigation work plan for the TNX-Area Operable Unit was published in November 1995. The objectives of the investigation are to determine the nature and extent of hazardous substance releases from the unit; prepare human health and ecological risk assessments; collect data to aid in refining the extent of hazardous substance migration in the groundwater beneath the TNX Area; and prepare a corrective measures study/feasibility study report (WSRC, 1995).
- Sampling for the RFI/RI field characterization was performed at the TNX-Area groundwater unit between March 4 and September 26, 1996.

Discussion

Groundwater Monitoring Data

The sampling procedure for pumped wells (WSRC, 1992) requires evacuation of a minimum of two well volumes and stabilization of pH, specific conductance, and turbidity prior to sample collection. Stability is established when a minimum of three successive measurements, taken within a given time period, are within a specified tolerance range. 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 as 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 groundwater quality.

During 1996, groundwater samples from TNX-Area wells were analyzed for selected heavy metals, indicator parameters, radionuclides, volatile organic compounds, and other constituents. This report provides monitoring results that equaled or exceeded the following standards:

- Safe Drinking Water Act final Primary Drinking Water Standards (PDWS) or drinking water screening levels, as established by EPA (Appendix A)
- South Carolina final PDWS for lead and copper (Appendix A)
- SRS flagging criteria that are based on PDWS, Secondary Drinking Water Standards, and method detection limits (Appendix B)

For simplicity, results that equaled or exceeded final PDWS or SRS Flag 2 criteria are described in the text as *exceeding* standards, *above* standards, or *elevated*. The final PDWS for individual analytes provided in Appendix A may not always match the SRS flagging criteria provided in Appendix B. The final PDWS are used as guidelines in this compliance report to meet regulatory requirements; the flagging criteria are used by Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) to identify relative levels of constituents in the groundwater and guide scheduling of groundwater sampling.

Integrity of the Well Network

The background, assessment, recovery, and groundwater monitoring well network at the TNX Area (Figures 2 and 3, Appendix C) has been developed over the past decade and a half as described chronologically below (EPD/EMS, 1996a):

- Monitoring wells YSB 1, 2, 3, and 4 were installed during early 1980 and abandoned during 1984.
- Monitoring wells XSB 1, 2, 3, and 4 were installed during 1980 and abandoned in 1984 and 1988. The installation date for monitoring well XSB 5 is uncertain; however, it was abandoned in 1988.
- Monitoring wells YSB 1A, 2A, 3A, and 4A were installed during late 1983.
- Monitoring wells XSB 1A, 1B, 1D, 2D, 3A, and 4D were installed between 1984 and 1989. The installation date for well XSB 5A is uncertain.
- Background wells P 26A, 26B, and 26D were installed during the second half of 1986.
- Monitoring wells TBG 1, 3, 4, 5, 5A, 5B, 6, and 7 were installed between 1988 and 1989.
- Assessment wells TNX 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, and 12D were installed during late 1989.
- Seepage monitoring wells TNX 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, and 22D were installed during 1994.

- Recovery wells TRW 1, 2, 3, and 4 were installed between 1994 and 1995.
- Monitoring wells TNX 23D, 24D, 26D, and 27D were installed during 1996.
- Special monitoring wells TIR 1L, 1M, 1U, 2, and 3B were installed during the second half of 1996 to support intrinsic remediation assessment.
- The TNX-Area network currently has 57 wells and is composed of wells P 26A, 26B, and 26D and the TBG, TIR, TNX, TRW, XSB, and YSB well series.

Variable-speed pumps were installed in wells TBG 4, TNX 23D, TNX 24D, and TNX 27D at the TNX Area. Samples from wells with variable-speed pumps are collected at a slower rate to minimize turbidity, which has been associated with artificially elevated metals levels. Decreased aluminum and iron concentrations as well as lower turbidity values have been observed for samples from wells with variable-speed pumps.

Well designations: Screen zone assignments for the wells in the TNX-Area network are described below.

- Unconfined Aquifer: wells P 26B and 26D; TBG 1, 3, 4, 5, 5A, 6, and 7; TIR 1L, 1M, 1U, 2, and 3B; TNX 1D, 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D, 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, 22D, 23D, 24D, 25D, 26D, and 27D; TRW 1, 2, 3, and 4; XSB 1A, 1D, 2D, 3A, 4D, and 5A; and YSB 1A, 2A, 3A, and 4A.
- Semiconfined Aquifer: wells P 26A, TBG 5B, and XSB 1B.

Well purging and sampling problems: Table D-3 (Appendix D) lists the number of well volumes purged from each well during each quarter of 1996 and provides sampling codes (defined in the *Key to Reading the Tables* in Appendix D) that describe unusual sampling events. Unusual sampling events occurred as follows:

- The following wells went dry during purging and were revisited for sampling within 24 hours (sampling code X):
First quarter—TBG 1; TNX 3D, 4D, 5D, 6D, 7D; XSB 2D
Second quarter—TBG 1, 5; TNX 3D, 4D, 5D, 6D, 7D, 26D
Third quarter—TNX 2D, 3D, 4D, 5D, 6D, 24D, 26D
Fourth quarter—TBG 1, 3, 5A, 6; TNX 1D, 2D, 3D, 4D, 5D, 6D, 7D, 26D; XSB 2D; YSB 1A, 3A
- The following wells had flowmeter problems:
Second quarter—P 26A, 26B, 26D; TNX 13D, 14D, 15D, 16D; XSB 3A; YSB 4A
Third quarter—P 26A, 26B, 26D; TNX 17D, 19D
Fourth quarter—P 26A, 26B, 26D; YSB 1A
- Well TBG 5 could not be sampled because it had no pump.
- Wells TNX 13D–22D could not be sampled because they were flooded.

Analytical Results Exceeding Standards

Maximum results for analytes that exceeded the final PDWS (Appendix A) in sampled wells during 1996 are provided in Table D-1 (Appendix D) and summarized below.

First Quarter 1996

- Trichloroethylene was elevated in 13 wells: TBG 1, 3, 4, and 6; TNX 3D, 10D, 11D, and 26D; and XSB 1D, 2D, 3A, 4D, and 5A. The maximum trichloroethylene concentration occurred in well TBG 6 at 1,400 µg/L.
- Nitrate-nitrite was elevated in 6 wells: TBG 1, 3, 4, and 6; TNX 3D; and XSB 2D, with the maximum concentration in well TNX 3D at 31,000 µg/L.

- Carbon tetrachloride was elevated in 5 wells: TBG 1, 3, and 4; TNX 3D; and XSB 2D. The maximum carbon tetrachloride concentration was detected in well TBG 3 at 360 µg/L.
- Gross alpha was elevated in 5 wells: TBG 1, 3, and 4 and TNX 3D and 24D, with the maximum activity in well TBG 1 at 2.8E+01 pCi/L.
- Dichloromethane was elevated in 3 wells: TBG 4 and 6 and XSB 2D, with the maximum concentration in well TBG 6 at 34 µg/L.
- Tetrachloroethylene was elevated in 3 wells: TBG 3 and 4 and TNX 3D, with the maximum concentration in well TBG 4 at 20 µg/L.
- Mercury was elevated in 2 wells: TBG 4 and 5B, with the maximum concentration in well TBG 5B at 11 µg/L.
- Copper was elevated in well P 26D at a concentration of 1,000 µg/L.

Second Quarter 1996

- Trichloroethylene was elevated in 17 wells: TBG 1, 3, 4, 5, and 6; TNX 3D, 10D, 11D, 14D, 15D, 16D, and 26D; and XSB 1D, 2D, 3A, 4D, and 5A. The maximum trichloroethylene concentration occurred in well TBG 6 at 1,900 µg/L.
- Nitrate-nitrite was elevated in 9 wells: TBG 1, 3, 4, and 6; TNX 3D, 15D and 16D; and XSB 2D and 3A. The maximum nitrate-nitrite concentration was detected in wells TBG 4 and TNX 3D at 30,000 µg/L.
- Carbon tetrachloride was elevated in 8 wells: TBG 1, 3, 4, and 6; TNX 3D and 16D; and XSB 1D and 2D. The maximum carbon tetrachloride concentration occurred in well TBG 4 at 580 µg/L.
- Gross alpha was elevated in 4 wells: TBG 1, 3, and 4 and TNX 3D with the maximum activity in well TBG 3 at 3.7E+01 pCi/L.
- Tetrachloroethylene was elevated in 3 wells: TBG 3 and 4 and TNX 3D, with the maximum concentration in well TBG 4 at 28 µg/L.
- Dichloromethane was elevated in wells TNX 23D and 26D, with the maximum concentration in well TNX 23D at 7.6 µg/L.
- Arsenic was elevated in well TNX 11D at 160 µg/L.
- Lead was elevated in well TNX 2D at 51 µg/L.

Third Quarter 1996

- Trichloroethylene was elevated in 24 wells: TBG 1, 3, 4, 5, and 6; TIR 1M, 1U, 2, and 3B; TNX 3D, 10D, 14D, 15D, 16D, 18D and 26D; TRW 1, 2, 3, and 4; and XSB 1D, 2D, 3A, and 4D. The maximum trichloroethylene concentration occurred in well TBG 6 at 1,700 µg/L.
- Carbon tetrachloride was elevated in 10 wells: TBG 1, 3, and 4; TIR 1U, 2, and 3B; TRW 1, 2, and 4; and XSB 2D. The maximum carbon tetrachloride concentration was detected in wells TBG 3 and 4 at 270 µg/L.
- Nitrate-nitrite was elevated in 7 wells: TBG 1, 3, 4, and 6 and TNX 3D, 15D, and 16D. The maximum nitrate-nitrite concentration occurred in well TBG 4 at 30,000 µg/L.
- Nitrate was elevated in 4 wells: TIR 1U and 3B and TNX 15D and 16D, with the maximum concentration in well TIR 1U at 17,000 µg/L.
- Gross alpha was elevated in 3 wells: TBG 3 and 4 and TNX 3D, with a maximum activity in well TNX 3D at 2.5E+01 pCi/L.

- Tetrachloroethylene was elevated in 2 wells: TBG 3 and 4, with a maximum concentration in well TBG 4 at 27 µg/L.
- Antimony was elevated in well P 26A at 1,100 µg/L.
- Beryllium was elevated in well P 26A at 1,200 µg/L.
- Dichloromethane was elevated in well P 26A at 5.6 µg/L.
- Mercury was elevated in well TBG 4 at 2.4 µg/L.

Fourth Quarter 1996

- Trichloroethylene was elevated in 23 wells: TBG 1, 3, 4, 5, and 6; TIR 1M, 1U, 2, and 3B; TNX 3D, 10D, 11D, 14D, 15D, 16D, 18D, 26D, and 27D; and XSB 1D, 2D, 3A, 4D, and 5A. The maximum trichloroethylene concentration occurred in well TBG 6 at 1,800 µg/L.
- Carbon tetrachloride was elevated in 12 wells: TBG 1, 3, 4, and 6; TIR 1M, 1U, 2, and 3B; TNX 3D and 27D; and XSB 1D and 2D. The maximum carbon tetrachloride concentration was detected in well TBG 4 at 280 µg/L.
- Nitrate-nitrite was elevated in 11 wells: TBG 1, 3, 4, and 6; TNX 3D, 15D, and 16D; and XSB 1D, 2D, 3A, and 4D. The maximum nitrate-nitrite concentration occurred in well XSB 1D at 68,000 µg/L.
- Gross alpha was elevated in 7 wells: P 26A; TBG 1, 3, and 4; TNX 9D; and XSB 1A and 1D, with a maximum activity in well TBG 4 at 4.6E+01 pCi/L.
- Mercury was elevated in 3 wells: TBG 4 and XSB 1D and 3A. The maximum mercury concentration was detected in well XSB 1D at 9.3 µg/L.
- Nitrate was elevated in 3 wells: TIR 1U and TNX 15D and 16D, with the maximum concentration in well TIR 1U at 17,000 µg/L.
- Chromium was elevated in 2 wells: TNX 19D and YSB 3A, with the maximum concentration in well TNX 19D at 1,100 µg/L.
- Tetrachloroethylene was elevated in 2 wells: TBG 3 and 4, with the maximum concentration in well TBG 4 at 28 µg/L.
- Arsenic was elevated in well TNX 11D at 670 µg/L.
- Chloroform was elevated in well TBG 5 at 130 µg/L.
- Lead was elevated in well TNX 7D at 77 µg/L.
- Nitrite was elevated in well TIR 2 at 2,900 µg/L.

Constituents that exceeded other Flag 2 criteria (see Appendix B) during fourth quarter 1996 are summarized in Table D-2 (Appendix D).

Table D-3 (Appendix D) presents the maximum results for each analyte for individual wells during each quarter of the year. Table D-3 also identifies the analytical laboratories that conducted the analyses and the analyses that received modifiers (which help identify laboratory accuracy and precision) or that exceeded the EPA-approved holding times during fourth quarter 1996. The TIR well series was sampled monthly, beginning in September 1996. Table D-3 presents the maximum results for each analyte for TIR wells during each month from September to December 1996. For these wells, the analyses that received modifiers or that exceeded the EPA-approved holding times for December 1996 are listed in the table.

Constituent results in Table D-3 that appear to equal the final PDWS but are not marked in the *ST* column (exceeded final PDWS or screening level) are below the final PDWS in the database. Database results, the results that are compared to the final PDWS, have more significant digits than the results given in this report. Apparent discrepancies are due to the rounding of reported results.

Field data and a description of each well appear in Table D-3.

Appendix D also provides definitions of the abbreviations and modifiers used in the results tables as well as descriptions of holding times, data rounding, and data qualification practices.

The horizontal extents of carbon tetrachloride, nitrate-nitrite, and trichloroethylene during second and fourth quarters 1996 are shown in Figures 4 through 15 (Appendix C).

Appendix E gives a general assessment of the quality and usability of the data provided by EPD/EMS.

Time Series Results

Time series plots of carbon tetrachloride, field pH, gross alpha, mercury, nitrate-nitrite, radium-226, radium-228, tetrachloroethylene, and trichloroethylene levels since first quarter 1991 for the P 26 well cluster and the TBG, TIR, TNX, TRW, XSB, and YSB well series are shown in Appendix F. Since sampling for the TIR and TRW well series and wells TNX 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, 22D, 23D, 24D, 26D, and 27D did not begin until third quarter 1996, trends for these wells will not be discussed until a full year of data has been accumulated. General trends in the remaining wells for these indicator parameters are as follows:

Carbon tetrachloride: Since first quarter 1991, carbon tetrachloride concentrations in wells TBG 1, 3, 4, and 6; TNX 3D; and XSB 1D and 2D usually have exceeded the final PDWS. Concentrations in most of the remaining wells have exceeded the final PDWS only infrequently or not at all. In many of the remaining wells, concentrations have not exceeded detection limit values during this time period.

Field pH: Field pH values for most of the wells have ranged between approximately pH 4 and 7 since sampling began. However, the pH in well XSB 2D has been somewhat more alkaline, usually about pH 7, but occasionally ranging between pH 8 and 9.

Gross alpha: Gross alpha activities in wells TBG 1, 3, and 4 and TNX 3D have exceeded the final PDWS sporadically since first quarter 1991. Activities in the remaining wells usually have been below detection limit or less than the final PDWS.

Mercury: Mercury concentrations in well TBG 4 have exceeded the final PDWS for most quarters during which it has been sampled since first quarter 1991. Mean concentrations have been less than 4 µg/L. Mercury concentrations in the remaining wells have been below detection limit or less than the final PDWS, except in well TBG 5B during first quarter 1996, well XSB 1D during fourth quarter 1996, and well XSB 3A during second quarter 1991 and fourth quarter 1996.

Nitrate-nitrite: Nitrate-nitrite concentrations in wells TBG 1, 3, 4, and 6; TNX 3D and 10D; and XSB 2D frequently have exceeded the final PDWS since first quarter 1991. Concentrations in the remaining wells usually have been below detection limit values or less than the final PDWS. Wells TNX 6D, 8D, 9D, 10D, and XSB 1B, 4D, and 5A exhibited unusually high nitrate-nitrite values in second quarter 1994.

Radium-226: Groundwater samples from most of the wells were near but did not exceed detection limit values for radium-226 from 1991 through 1994. Activities sporadically exceeded the proposed drinking water standard of 20 pCi/L in a few wells during that period. The wells were not sampled for radium-226 during 1996.

Radium-228: Groundwater samples from most of the wells were near but did not exceed detection limit values for radium-228 from 1991 through 1994. Activities sporadically exceeded the proposed drinking water standard of 20 pCi/L in a few wells during that period. The wells were not sampled for radium-228 during 1996.

Tetrachloroethylene: Tetrachloroethylene concentrations usually have exceeded the final PDWS in wells TBG 3 and 4 and TNX 3D since the first quarter of 1991. Concentrations in wells TNX 4D and XSB 1D have exceeded the PDWS sporadically. Most of the remaining samples have not exceeded detection limit values.

Trichloroethylene: Trichloroethylene concentrations in wells TBG 1, 3, 4, 5, and 6; TNX 3D, 10D, and 11D; and XSB 1D, 2D, 3A, 4D, and 5A usually have exceeded the final PDWS since first quarter 1991.

Concentrations in wells TBG 5 and 6 frequently were greater than 1,000 µg/L. Concentrations in wells TBG 3 and 4, in well TNX 3D, and in wells XSB 2D and 3A usually were greater than 100 µg/L. The remaining wells in TNX Area have exhibited concentrations that are undetectable or usually below the final PDWS.

Groundwater Flow Directions and Rates

Figures 16 through 19 (Appendix C) provide piezometric surface and water-elevation maps for the uppermost aquifers beneath TNX Area during second and fourth quarters 1996. The maps are oriented to true north using universal transverse Mercator (UTM) coordinates. Hydrographs for the P 26 well cluster and the TBG, TIR, TNX, TRW, XSB, and YSB well series are in Appendix G.

During 1996, the horizontal groundwater flow in the Unconfined Aquifer beneath the TNX Area was consistently to the southwest. The potentiometric surface in the Semiconfined Aquifer could not be contoured because of the near-linear distribution of the three wells in this aquifer.

Horizontal flow rate estimates for the groundwater beneath the TNX Area during the four quarters of 1996 are provided below.

Table 1. Horizontal Groundwater Flow Rates (ft/year) beneath the TNX Area

Aquifer	1Q96	2Q96	3Q96	4Q96
Unconfined	880	990	950	950
Semiconfined	N ^a	N	N	N

^aN = Flow rate cannot be determined due to the near-linear orientation of wells.

The groundwater flow rate beneath the TNX Area is estimated using the following equation:

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

Hydraulic conductivity constants estimated for the Unconfined and Semiconfined Aquifers are 21 and 12, respectively, and the effective porosity value for the Unconfined Aquifer is 13 percent (Nichols, 1993). A porosity value has not been calculated for the Semiconfined Aquifer. The value dh is the difference in head, and dl is the length of the flow path.

Flow path length is calculated to the nearest 100 ft. Flow rate per day is calculated to two significant digits, then multiplied by 365 and rounded to two significant digits for the flow rate per year. Flow rate estimates vary depending on the vertical gradient between wells, size of the area under consideration, and number of data points. Because all the elements of the equation are estimates, the values presented here are useful as order of magnitude only.

The flow rate estimate for groundwater in the Unconfined Aquifer beneath the TNX Area during second quarter 1996 was calculated as follows (Figure 16, Appendix C):

$$\frac{21}{0.13} \times \frac{22}{1,300} \approx 2.7 \text{ ft/day}$$

$$2.7 \text{ ft/day} \times 365 \text{ days} \approx 990 \text{ ft/year}$$

The flow rate estimate for groundwater in the Unconfined Aquifer beneath the TNX Area during fourth quarter 1996 was calculated as follows (Figure 17, Appendix C):

$$\frac{21}{0.13} \times \frac{22}{1,400} \approx 2.6 \text{ ft/day}$$

$$2.6 \text{ ft/day} \times 365 \text{ days} \approx 950 \text{ ft/year}$$

Upgradient vs. Downgradient Results

Wells P 26D and YSB 2A, screened in the Unconfined Aquifer, are hydraulically upgradient relative to the TNX Area. During 1996, no constituents exceeded the final PDWS in well YSB 2A. During first quarter 1996, copper exceeded the PDWS in well P 26D at a concentration of 1,000 µg/L.

Downgradient wells TBG 1, 3, 4, 5, 5B, and 6; TIR 1M, 1U, 2, and 3B; TNX 2D, 3D, 7D, 9D, 10D, 11D, 14D, 15D, 16D, 18D, 19D, 23D, 24D, 26D, and 27D; TRW 1, 2, 3, and 4; and XSB 1A, 1D, 2D, 3A, 4D, and 5A; and YSB 3A contained elevated levels of arsenic, carbon tetrachloride, chloroform, chromium, dichloromethane, gross alpha, lead, mercury, nitrate, nitrate-nitrite, nitrite, tetrachloroethylene, or trichloroethylene during one or more quarters of the year.

Well P 26A is an upgradient well in the Semiconfined Aquifer zone. During third quarter 1996, antimony, beryllium, and the common laboratory contaminant dichloromethane exceeded the PDWS in well P 26A. Gross alpha exceeded its PDWS in well P 26A during fourth quarter.

Quality Control Results

During 1996, the following wells received duplicate and blind replicate analyses:

First quarter—wells P 26D, TBG 5B, TNX 23D

Second quarter—wells XSB 1D, YSB 2A

Third quarter—wells TBG 7, TNX 9D, XSB 1A

Fourth quarter—wells P 26A, TBG 5B, TIR 1M, TIR 2, TIR 3B, TNX 8D, TNX 11D, XSB 1A, YSB 1A, YSB 2A, YSB 3A

Blind replicate analyses, representing approximately 5 percent of the quarter's total groundwater samples, are performed by the analytical laboratories each quarter for wells selected by EPD/EMS as part of the EPD/EMS quality assurance program (see Appendix E). Also, as part of their quality assurance procedures, the laboratories duplicate certain analyses.

The results of these analyses are used for both intralaboratory and interlaboratory comparisons. The EPD/EMS quarterly groundwater monitoring reports (EPD/EMS, 1995a, 1995b, 1996b, 1996c) provide full replicate results and statistical comparisons of blind replicate and duplicate results.

1996 Summary

During 1996, selected wells of the P 26 cluster and the TBG, TNX, TRW, XSB, and YSB well series were sampled quarterly and the TIR series, beginning in September 1996, was sampled monthly to provide data for future characterizations, groundwater modeling studies, and remediation activities in the TNX Area. The TIR well series was added to the network during third quarter 1996. No wells were abandoned during 1996.

During the year, one or more samples from 38 of the 57 wells (67 percent) exhibited levels of antimony, arsenic, beryllium, carbon tetrachloride, chloroform, chromium, copper, dichloromethane, gross alpha, lead, mercury, nitrate, nitrate-nitrite, nitrite, tetrachloroethylene, or trichloroethylene that exceeded the final PDWS.

Elevated concentrations of trichloroethylene occurred most frequently during the year, with concentrations up to 1,900 µg/L in well TBG 6 during second quarter 1996.

No constituents exceeded the final PDWS in hydraulically upgradient wells YSB 2A, but copper was elevated in well P 26A during first quarter 1996.

The horizontal flow direction in the Unconfined Aquifer beneath the TNX Area was to the southwest (UTM coordinates) during the year. The estimated groundwater flow rate in the Unconfined Aquifer, which represents the assumed maximum contaminant migration rate, ranged from 880 to 990 ft/year. The near-linear arrangement of the three monitoring wells in the Semiconfined Aquifer prevented determination of reliable flow directions and rates in this aquifer.

Appendix A

Final Primary Drinking Water Standards

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Table A-1. Final Primary Drinking Water Standards

<i>Analyte</i>	<i>Level</i>	<i>Unit</i>	<i>Status</i>	<i>Source</i>
Alachlor	2	µg/L	Final	EPA, 1995
Aldicarb	3	µg/L	Final	EPA, 1995
Aldicarb sulfone	2	µg/L	Final	EPA, 1995
Aldicarb sulfoxide	4	µg/L	Final	EPA, 1995
Antimony	6	µg/L	Final	EPA, 1995
Arsenic	50	µg/L	Final	EPA, 1995
Asbestos	7,000,000	Fibers/L	Final	EPA, 1995
Atrazine	3	µg/L	Final	EPA, 1995
Barium	2,000	µg/L	Final	EPA, 1995
Benzene	5	µg/L	Final	EPA, 1995
Benzo[a]pyrene	0.2	µg/L	Final	EPA, 1995
Beryllium	4	µg/L	Final	EPA, 1995
Bis(2-ethylhexyl) phthalate	6	µg/L	Final	EPA, 1995
Bromodichloromethane	100	µg/L	Final	EPA, 1995
Bromoform	100	µg/L	Final	EPA, 1995
2-sec-Butyl-4,6-dinitrophenol	7	µg/L	Final	EPA, 1995
Cadmium	5	µg/L	Final	EPA, 1995
Carbofuran	40	µg/L	Final	EPA, 1995
Carbon tetrachloride	5	µg/L	Final	EPA, 1995
Chlordane	2	µg/L	Final	EPA, 1995
Chlorobenzene	100	µg/L	Final	EPA, 1995
Chloroethene (Vinyl chloride)	2	µg/L	Final	EPA, 1995
Chloroform	100	µg/L	Final	EPA, 1995
Chromium	100	µg/L	Final	EPA, 1995
Copper	1,000	µg/L	Final	SCDHEC, 1981
Cyanide	200	µg/L	Final	EPA, 1995
Dalapon	200	µg/L	Final	EPA, 1995
Dibromochloromethane	100	µg/L	Final	EPA, 1995
1,2-Dibromo-3-chloropropane	0.2	µg/L	Final	EPA, 1995
1,2-Dibromoethane	0.05	µg/L	Final	EPA, 1995
1,2-Dichlorobenzene	600	µg/L	Final	EPA, 1995
1,4-Dichlorobenzene	75	µg/L	Final	EPA, 1995
1,2-Dichloroethane	5	µg/L	Final	EPA, 1995
1,1-Dichloroethylene	7	µg/L	Final	EPA, 1995
cis-1,2-Dichloroethylene	70	µg/L	Final	EPA, 1995
trans-1,2-Dichloroethylene	100	µg/L	Final	EPA, 1995
Dichloromethane (Methylene chloride)	5	µg/L	Final	EPA, 1995
2,4-Dichlorophenoxyacetic acid	70	µg/L	Final	EPA, 1995
1,2-Dichloropropane	5	µg/L	Final	EPA, 1995
Di(2-ethylhexyl) adipate	400	µg/L	Final	EPA, 1995
Diquat dibromide	20	µg/L	Final	EPA, 1995
Endothall	100	µg/L	Final	EPA, 1995
Endrin	2	µg/L	Final	EPA, 1995
Ethylbenzene	700	µg/L	Final	EPA, 1995
Fluoride	4,000	µg/L	Final	EPA, 1995
Glyphosate	700	µg/L	Final	EPA, 1995
Gross alpha ^a	1.5E+01	pCi/L	Final	EPA, 1995
Heptachlor	0.4	µg/L	Final	EPA, 1995
Heptachlor epoxide	0.2	µg/L	Final	EPA, 1995
Hexachlorobenzene	1	µg/L	Final	EPA, 1995
Hexachlorocyclopentadiene	50	µg/L	Final	EPA, 1995
Lead	50	µg/L	Final	SCDHEC, 1981
Lindane	0.2	µg/L	Final	EPA, 1995
Mercury	2	µg/L	Final	EPA, 1995

Analyte	Level	Unit	Status	Source
Methoxychlor	40	µg/L	Final	EPA, 1995
Nickel	100	µg/L	Final	EPA, 1995
Nitrate as nitrogen	10,000	µg/L	Final	EPA, 1995
Nitrate-nitrite as nitrogen	10,000	µg/L	Final	EPA, 1995
Nitrite as nitrogen	1,000	µg/L	Final	EPA, 1995
Nonvolatile beta	5E+01	pCi/L	Interim Final	EPA, 1977
Oxamyl	200	µg/L	Final	EPA, 1995
PCB 1016	0.5	µg/L	Final	EPA, 1995
PCB 1221	0.5	µg/L	Final	EPA, 1995
PCB 1232	0.5	µg/L	Final	EPA, 1995
PCB 1242	0.5	µg/L	Final	EPA, 1995
PCB 1248	0.5	µg/L	Final	EPA, 1995
PCB 1254	0.5	µg/L	Final	EPA, 1995
PCB 1260	0.5	µg/L	Final	EPA, 1995
PCB 1262	0.5	µg/L	Final	EPA, 1995
Pentachlorophenol	1	µg/L	Final	EPA, 1995
Picloram	500	µg/L	Final	EPA, 1995
Selenium	50	µg/L	Final	EPA, 1995
Simazine	4	µg/L	Final	EPA, 1995
Strontium-89/90 ^b	8E+00	pCi/L	Final	EPA, 1995
Strontium-90	8E+00	pCi/L	Final	EPA, 1995
Styrene	100	µg/L	Final	EPA, 1995
2,3,7,8-TCDD	0.014	µg/L	Final	EPA, 1995
Tetrachloroethylene	5	µg/L	Final	EPA, 1995
Thallium	2	µg/L	Final	EPA, 1995
Toluene	1,000	µg/L	Final	EPA, 1995
Total coliform	0	N/A	Final	EPA, 1995
Toxaphene	3	µg/L	Final	EPA, 1995
2,4,5-TP (Silvex)	50	µg/L	Final	EPA, 1995
1,2,4-Trichlorobenzene	70	µg/L	Final	EPA, 1995
1,1,1-Trichloroethane	200	µg/L	Final	EPA, 1995
1,1,2-Trichloroethane	5	µg/L	Final	EPA, 1995
Trichloroethylene	5	µg/L	Final	EPA, 1995
Tritium	2E+01	pCi/mL	Final	EPA, 1995
Xylenes	10,000	µg/L	Final	EPA, 1995

^a The standard given is for gross alpha including radium-226 but excluding radon and uranium.

^b For double radionuclide analyses where each separate radionuclide has its own standard, the more stringent standard is used.

Appendix B

Flagging Criteria

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Flagging Criteria

Beginning first quarter 1992, flagging criteria were established for all constituents analyzed as part of the EPD/EMS Groundwater Monitoring Program. Only the flagging criteria for environmental screening analyses are used to trigger scheduling for designated wells in the environmental screening program, while all flagging criteria in Table B-1 are used to flag constituents in the analytical results tables.

The following rules are used in determining flagging criteria and scheduling sampling:

- Flag 0: Analysis for a constituent below Flag 1 is classified as Flag 0. Constituents classified as Flag 0 in each well series will be scheduled for analyses only by custodian request or as part of the triennial environmental screening program for wells designated as environmental screening wells.
- Flag 1: The Flag 1 criterion for a constituent equals half of the EPA primary drinking water standard (PDWS), the EPA proposed PDWS, or the EPA secondary drinking water standard (SDWS) for that constituent. If a constituent does not have an EPA drinking water standard, the Flag 1 criterion equals 5 times a recently published 90th percentile detection limit obtained by one of the primary laboratories. If a constituent exceeds Flag 1 in a monitoring well series, environmental screening wells in that series are sampled and analyzed for that constituent once a year. If a constituent falls below Flag 1 for three consecutive sampling episodes, the well's flag is reduced from Flag 1 status to Flag 0 status and follows the rules for Flag 0.
- Flag 2: The Flag 2 criterion for a constituent equals the EPA PDWS, the EPA proposed PDWS, or the EPA SDWS for that constituent. If a constituent does not have a drinking water standard, the Flag 2 criterion equals 10 times a recently published 90th percentile detection limit obtained by one of the primary laboratories. If a constituent exceeds Flag 2 in a monitoring well series, environmental screening wells in that series are sampled and analyzed for that constituent once a year. If a constituent falls below Flag 2 for three consecutive sampling episodes, the well's flag is reduced from Flag 2 status to Flag 1 or Flag 0 status and follows the rules for the lower flag.

The following constituents are exceptions to the flagging rules:

- Specific conductance and pH, which are indicator parameters, have flagging criteria but do not trigger the scheduling mechanism. No flags are set for alkalinity, 5-day biochemical oxygen demand, calcium, carbonate, chemical oxygen demand, magnesium, potassium, silica, sodium, total dissolved solids, total phosphates (as P), and total phosphorous because they are indicator parameters or major cations. Analyses for these constituents are conducted as part of the triennial environmental screening program or by special request.
- Aesthetic analyses such as color, odor, corrosivity, turbidity, and surfactants are not assigned flagging criteria but are analyzed by special request.
- Common laboratory contaminants and cleaners including phthalates, dichloromethane, ketones, and toluene are not assigned flagging criteria unless they have PDWS. These constituents are analyzed by special request.

Table B-1. Flagging Criteria

Analyte	Unit	Flag 1	Flag 2	Source
Acenaphthene	µg/L	5.1	10.2	EPA Method 8270
Acenaphthylene	µg/L	5.1	10.2	EPA Method 8270
Acetone	µg/L	500	1,000	EPA Method 8240 (Set by EPD/EMS)
Acetonitrile (Methyl cyanide)	µg/L	50	100	EPA Method 8240
Acetophenone	µg/L	85	170	EPA Method 8270
2-Acetylaminofluorene	µg/L	81	162	EPA Method 8270
Acrolein	µg/L	166.5	333	EPA Method 8240
Acrylonitrile	µg/L	250	500	EPA Method 8240
Actinium-228	µCi/mL	1.64E-06	3.27E-06	Proposed DWS (EPA, 1991a)

Analyte	Unit	Flag 1	Flag 2	Source
Alachlor	µg/L	1	2	Final DWS (CFR, 1995a)
Aldicarb	µg/L	1.5	3	Final DWS (CFR, 1995a)
Aldicarb sulfone	µg/L	1	2	Final DWS (CFR, 1995a)
Aldicarb sulfoxide	µg/L	2	4	Final DWS (CFR, 1995a)
Aldrin	µg/L	0.4	0.8	EPA Method 8080
Alkalinity (as CaCO ₃)		No flag	No flag	Set by EPD/EMS
Allyl chloride	µg/L	416.5	833	EPA Method 8240
Aluminum	µg/L	25	50	Secondary DWS (CFR, 1995b)
Aluminum, dissolved	µg/L	25	50	Secondary DWS (CFR, 1995b)
Aluminum, total recoverable	µg/L	25	50	Secondary DWS (CFR, 1995b)
Americium-241	µCi/mL	3.17E-09	6.34E-09	Proposed DWS (EPA, 1991a)
Americium-243	µCi/mL	3.19E-09	6.37E-09	Proposed DWS (EPA, 1991a)
4-Aminobiphenyl	µg/L	81	162	EPA Method 8270
Ammonia	µg/L	250	500	APHA Method 417B
Ammonia nitrogen	µg/L	500	1,000	EPA Method 350.1
Aniline	µg/L	81	162	EPA Method 8270
Anthracene	µg/L	5.1	10.2	EPA Method 8270
Antimony	µg/L	3	6	Final DWS (CFR, 1995a)
Antimony, dissolved	µg/L	3	6	Final DWS (CFR, 1995a)
Antimony, total recoverable	µg/L	3	6	Final DWS (CFR, 1995a)
Antimony-124	µCi/mL	3E-08	6E-08	Interim Final DWS (EPA, 1977)
Antimony-125	µCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Aramite	µg/L	81	162	EPA Method 8270
Arsenic	µg/L	25	50	Final DWS (CFR, 1995a)
Arsenic, dissolved	µg/L	25	50	Final DWS (CFR, 1995a)
Arsenic, total recoverable	µg/L	25	50	Final DWS (CFR, 1995a)
Asbestos	Fibers/L	3,500,000	7,000,000	Final DWS (CFR, 1995a)
Atrazine	µg/L	1.5	3	Final DWS (CFR, 1995a)
Azobenzene	µg/L	50	100	EPA Method 625
Barium	µg/L	1000	2,000	Final DWS (CFR, 1995a)
Barium, dissolved	µg/L	1000	2,000	Final DWS (CFR, 1995a)
Barium, total recoverable	µg/L	1000	2,000	Final DWS (CFR, 1995a)
Barium-133	µCi/mL	7.6E-07	1.52E-06	Proposed DWS (EPA, 1991a)
Barium-140 ^a	µCi/mL	4.5E-08	9E-08	Interim Final DWS (EPA, 1977)
Benzene	µg/L	2.5	5	Final DWS (CFR, 1995a)
alpha-Benzene hexachloride	µg/L	0.15	0.3	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	83.5	167	EPA Method 8270
Benzo[a]anthracene	µg/L	0.05	0.1	Proposed DWS (EPA, 1990)
Benzo[b]fluoranthene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Benzo[k]fluoranthene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Benzoic acid	µg/L	5	10	EPA Method 8270
Benzo[g,h,i]perylene	µg/L	5.1	10.2	EPA Method 8270
Benzo[a]pyrene	µg/L	0.1	0.2	Final DWS (CFR, 1995a)
1,4-Benzoquinone	µg/L	50	100	EPA Method 8270
Benzyl alcohol	µg/L	5	10	EPA Method 8270
Beryllium	µg/L	2	4	Final DWS (CFR, 1995a)
Beryllium, dissolved	µg/L	2	4	Final DWS (CFR, 1995a)
Beryllium, total recoverable	µg/L	2	4	Final DWS (CFR, 1995a)
Beryllium-7	µCi/mL	3E-06	6E-06	Interim Final DWS (EPA, 1977)
5-day Biochemical oxygen demand		No flag	No flag	Set by EPD/EMS
Bis(2-chloroethoxy) methane	µg/L	5.1	10.2	EPA Method 8270
Bis(2-chloroethyl) ether	µg/L	5.1	10.2	EPA Method 8270
Bis(2-chloroisopropyl) ether	µg/L	100	200	EPA Method 8270

Analyte	Unit	Flag 1	Flag 2	Source
Bis(chloromethyl) ether	µg/L	50	100	EPA Method 8270
Bis(2-ethylhexyl) phthalate	µg/L	3	6	Final DWS (CFR, 1995a)
Bismuth-214	µCi/mL	9.4E-06	1.89E-05	Proposed DWS (EPA, 1991a)
Boron	µg/L	2,500	5,000	EPA Method 6010
Boron, dissolved	µg/L	2,500	5,000	EPA Method 6010
Boron, total recoverable	µg/L	2,500	5,000	EPA Method 6010
Bromide	µg/L	5,000	10,000	EPA Method 300.0
Bromobenzene	µg/L	25	50	EPA Method 8260
Bromochloromethane	µg/L	5	10	EPA Method 8260
Bromodichloromethane	µg/L	50	100	Final DWS (CFR, 1995a)
Bromoform	µg/L	50	100	Final DWS (CFR, 1995a)
Bromomethane (Methyl bromide)	µg/L	10	20	EPA Method 8240
4-Bromophenyl phenyl ether	µg/L	5.1	10.2	EPA Method 8270
n-Butylbenzene	µg/L	5	10	EPA Method 8260
sec-Butylbenzene	µg/L	5	10	EPA Method 8260
tert-Butylbenzene	µg/L	5	10	EPA Method 8260
Butylbenzyl phthalate		No flag	No flag	Set by EPD/EMS
2-sec-Butyl-4,6-dinitrophenol	µg/L	3.5	7	Final DWS (CFR, 1995a)
Cadmium	µg/L	2.5	5	Final DWS (CFR, 1995a)
Cadmium, dissolved	µg/L	2.5	5	Final DWS (CFR, 1995a)
Cadmium, total recoverable	µg/L	2.5	5	Final DWS (CFR, 1995a)
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 DWS (CFR, 1995a)
Carbon disulfide	µg/L	25	50	EPA Method 8240
Carbon tetrachloride	µg/L	2.5	5	Final DWS (CFR, 1995a)
Carbon-14	µCi/mL	1E-06	2E-06	Interim Final DWS (EPA, 1977)
Carbonate		No flag	No flag	Set by EPD/EMS
Cerium-141 ^a	µCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Cerium-144	µCi/mL	1.31E-07	2.61E-07	Proposed DWS (EPA, 1991a)
Cesium-134 ^b	µCi/mL	4.07E-08	8.13E-08	Proposed DWS (EPA, 1991a)
Cesium-137	µCi/mL	1E-07	2E-07	Interim Final DWS (EPA, 1977)
Chemical oxygen demand		No flag	No flag	Set by EPD/EMS
Chlordane	µg/L	1	2	Final DWS (CFR, 1995a)
alpha-Chlordane	µg/L	0.25	0.5	EPA Method 8080
gamma-Chlordane	µg/L	0.25	0.5	EPA Method 8080
Chloride	µg/L	125,000	250,000	Secondary DWS (CFR, 1995b)
4-Chloroaniline	µg/L	5	10	EPA Method 8270
Chlorobenzene	µg/L	50	100	Final DWS (CFR, 1995a)
Chlorobenzilate	µg/L	81	162	EPA Method 8270
4-Chloro-m-cresol	µg/L	5.1	10.2	EPA Method 8270
Chloroethane	µg/L	10	20	EPA Method 8240
Chloroethene (Vinyl chloride)	µg/L	1	2	Final DWS (CFR, 1995a)
Chloroethyl vinyl ether	µg/L	5	10	EPA Method 8240
2-Chloroethyl vinyl ether	µg/L	50	100	EPA Method 8240
Chloroform	µg/L	50	100	Final DWS (CFR, 1995a)
Chloromethane (Methyl chloride)	µg/L	10	20	EPA Method 8240
2-Chloronaphthalene	µg/L	5.1	10.2	EPA Method 8240
2-Chlorophenol	µg/L	5.1	10.2	EPA Method 8270
4-Chlorophenyl phenyl ether	µg/L	5.1	10.2	EPA Method 8270
Chloroprene	µg/L	1,665	3,330	EPA Method 8240
2-Chlorotoluene	µg/L	25	50	EPA Method 8260
4-Chlorotoluene	µg/L	5	10	EPA Method 8260
Chromium	µg/L	50	100	Final DWS (CFR, 1995a)

Analyte	Unit	Flag 1	Flag 2	Source
Chromium, dissolved	µg/L	50	100	Final DWS (CFR, 1995a)
Chromium, total recoverable	µg/L	50	100	Final DWS (CFR, 1995a)
Chromium-51 ^a	µCi/mL	3E-06	6E-06	Interim Final DWS (EPA, 1977)
Chrysene	µg/L	0.1	0.2	Proposed DWS (EPA, 1990)
Cobalt	µg/L	50	100	EPA Method 6010
Cobalt, dissolved	µg/L	50	100	EPA Method 6010
Cobalt, total recoverable	µg/L	50	100	EPA Method 6010
Cobalt-57	µCi/mL	5E-07	1E-06	Interim Final DWS (EPA, 1977)
Cobalt-58	µCi/mL	4.5E-06	9E-06	Interim Final DWS (EPA, 1977)
Cobalt-60	µCi/mL	5E-08	1E-07	Interim Final DWS (EPA, 1977)
Color		No flag	No flag	Set by EPD/EMS
Copper	µg/L	500	1,000	Primary DWS (SCDHEC, 1981)
Copper, dissolved	µg/L	500	1,000	Primary DWS (SCDHEC, 1981)
Copper, total recoverable	µg/L	500	1,000	Primary DWS (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	5	10	EPA Method 8270
p-Cresol (4-Methylphenol)	µg/L	60	120	EPA Method 8270
Curium-242	µCi/mL	6.65E-08	1.33E-07	Proposed DWS (EPA, 1991a)
Curium-243	µCi/mL	4.15E-09	8.3E-09	Proposed DWS (EPA, 1991a)
Curium-243/244 ^c	µCi/mL	4.15E-09	8.3E-09	Proposed DWS (EPA, 1991a)
Curium-244	µCi/mL	4.92E-09	9.84E-09	Proposed DWS (EPA, 1991a)
Curium-245/246 ^a	µCi/mL	3.12E-09	6.23E-09	Proposed DWS (EPA, 1991a)
Curium-246	µCi/mL	3.14E-09	6.27E-09	Proposed DWS (EPA, 1991a)
Cyanide	µg/L	100	200	Final DWS (CFR, 1995a)
Dalapon	µg/L	100	200	Final DWS (CFR, 1995a)
p,p'-DDD	µg/L	0.55	1.1	EPA Method 8080
p,p'-DDE	µg/L	0.25	0.5	EPA Method 8080
p,p'-DDT	µg/L	0.85	1.7	EPA Method 8080
Diallate	µg/L	81	162	EPA Method 8270
Dibenz[a,h]anthracene	µg/L	0.15	0.3	Proposed DWS (EPA, 1990)
Dibenzofuran	µg/L	5	10	EPA Method 8270
Dibromochloromethane	µg/L	50	100	Final DWS (CFR, 1995a)
1,2-Dibromo-3-chloropropane	µg/L	0.1	0.2	Final DWS (CFR, 1995a)
1,2-Dibromoethane	µg/L	0.025	0.05	Final DWS (CFR, 1995a)
Dibromomethane (Methylene bromide)	µg/L	10	20	EPA Method 8240
Di-n-butyl phthalate		No flag	No flag	Set by EPD/EMS
1,2-Dichlorobenzene	µg/L	300	600	Final DWS (CFR, 1995a)
1,3-Dichlorobenzene	µg/L	81	162	EPA Method 8270
1,4-Dichlorobenzene	µg/L	37.5	75	Final DWS (CFR, 1995a)
3,3'-Dichlorobenzidine	µg/L	5.1	10.2	EPA Method 8270
trans-1,4-Dichloro-2-butene	µg/L	250	500	EPA Method 8240
Dichlorodifluoromethane	µg/L	10	20	EPA Method 8240
1,1-Dichloroethane	µg/L	10	20	EPA Method 8240
1,2-Dichloroethane	µg/L	2.5	5	Final DWS (CFR, 1995a)
cis-1,2-Dichloroethylene	µg/L	35	70	Final DWS (CFR, 1995a)
1,1-Dichloroethylene	µg/L	3.5	7	Final DWS (CFR, 1995a)
1,2-Dichloroethylene	µg/L	25	50	EPA Method 8240
trans-1,2-Dichloroethylene	µg/L	50	100	Final DWS (CFR, 1995a)
Dichloromethane (Methylene chloride)	µg/L	2.5	5	Final DWS (CFR, 1995a)
2,4-Dichlorophenol	µg/L	5.1	10.2	EPA Method 8270
2,6-Dichlorophenol	µg/L	83.5	167	EPA Method 8270
2,4-Dichlorophenoxyacetic acid	µg/L	35	70	Final DWS (CFR, 1995a)
1,2-Dichloropropane	µg/L	2.5	5	Final DWS (CFR, 1995a)
2,2-Dichloropropane	µg/L	5	10	EPA Method 8260

<i>Analyte</i>	<i>Unit</i>	<i>Flag 1</i>	<i>Flag 2</i>	<i>Source</i>
cis-1,3-Dichloropropene	µg/L	10	20	EPA Method 8240
trans-1,3-Dichloropropene	µg/L	10	20	EPA Method 8240
Dieldrin	µg/L	4.15	8.3	EPA Method 8080
Diethyl phthalate		No flag	No flag	Set by EPD/EMS
Di(2-ethylhexyl) adipate	µg/L	200	400	Final DWS (CFR, 1995a)
Dimethoate	µg/L	81	162	EPA Method 8270
2,4-Dimethyl phenol	µg/L	5.1	10.2	EPA Method 8270
Dimethyl phthalate		No flag	No flag	Set by EPD/EMS
p-Dimethylaminoazobenzene	µg/L	81	162	EPA Method 8270
p-(Dimethylamino)ethylbenzene	µg/L	50	100	EPA Method 8270
7,12-Dimethylbenz[a]anthracene	µg/L	81	162	EPA Method 8270
3,3'-Dimethylbenzidine	µg/L	81	162	EPA Method 8270
a,a-Dimethylphenethylamine	µg/L	81	162	EPA Method 8270
1,3-Dinitrobenzene	µg/L	81	162	EPA Method 8270
2,4-Dinitrophenol	µg/L	51	102	EPA Method 8270
2,4-Dinitrotoluene	µg/L	0.5	1	EPA Method 8270
2,6-Dinitrotoluene	µg/L	0.5	1	EPA Method 8270
Di-n-octyl phthalate		No flag	No flag	Set by EPD/EMS
1,4-Dioxane	µg/L	500	1,000	EPA Method 8270
Diphenylamine	µg/L	81	162	EPA Method 8270
1,2-Diphenylhydrazine	µg/L	83.5	167	EPA Method 8270
Diquat dibromide	µg/L	10	20	Final DWS (CFR, 1995a)
Dissolved organic carbon	µg/L	10,500,000	21,000,000	EPA Method 9060
Disulfoton	µg/L	81	162	EPA Method 8270
Eh		No flag	No flag	Set by EPD/EMS
Endosulfan I	µg/L	0.25	0.5	EPA Method 8080
Endosulfan II	µg/L	0.55	1.1	EPA Method 8080
Endosulfan sulfate	µg/L	0.55	1.1	EPA Method 8080
Endothall	µg/L	50	100	Final DWS (CFR, 1995a)
Endrin	µg/L	1	2	Final DWS (CFR, 1995a)
Endrin aldehyde	µg/L	0.85	1.7	EPA Method 8080
Endrin ketone		No flag	No flag	Set by EPD/EMS
Ethyl ether	µg/L	50	100	EPA Method 8260
Ethyl methacrylate	µg/L	2.5	5	EPA Method 8270
Ethyl methanesulfonate	µg/L	81	162	EPA Method 8270
Ethylbenzene	µg/L	350	700	Final DWS (CFR, 1995a)
Europium-152	µCi/mL	3E-08	6E-08	Interim Final DWS (EPA, 1977)
Europium-154	µCi/mL	1E-07	2E-07	Interim Final DWS (EPA, 1977)
Europium-155	µCi/mL	3E-07	6E-07	Interim Final DWS (EPA, 1977)
Famphur	µg/L	81	162	EPA Method 8270
Fluoranthene	µg/L	5.1	10.2	EPA Method 8270
Fluorene	µg/L	5.1	10.2	EPA Method 8270
Fluoride	µg/L	2,000	4,000	Final DWS (CFR, 1995a)
Glyphosate	µg/L	350	700	Final DWS (CFR, 1995a)
Gross alpha	µCi/mL	7.5E-09	1.5E-08	Final DWS (CFR, 1995a)
Heptachlor	µg/L	0.2	0.4	Final DWS (CFR, 1995a)
Heptachlor epoxide	µg/L	0.1	0.2	Final DWS (CFR, 1995a)
Heptachlorodibenzo-p-dioxin isomers	µg/L	0.007	0.014	EPA Method 8280
1,2,3,4,6,7,8-HPCDD	µg/L	0.007	0.014	EPA Method 8280
Heptachlorodibenzo-p-furan isomers	µg/L	0.008	0.016	EPA Method 8280
1,2,3,4,6,7,8-HPCDF	µg/L	0.008	0.016	EPA Method 8280
Hexachlorobenzene	µg/L	0.5	1	Final DWS (CFR, 1995a)
Hexachlorobutadiene	µg/L	5	10	EPA Method 8270
Hexachlorocyclopentadiene	µg/L	25	50	Final DWS (CFR, 1995a)
Hexachlorodibenzo-p-dioxin isomers	µg/L	0.008	0.016	EPA Method 8280

Analyte	Unit	Flag 1	Flag 2	Source
1,2,3,4,7,8-HxCDD	µg/L	0.0105	0.021	EPA Method 8280
Hexachlorodibenzo-p-furan isomers	µg/L	0.006	0.012	EPA Method 8280
1,2,3,4,7,8-HxCDF	µg/L	0.0085	0.017	EPA Method 8280
Hexachloroethane	µg/L	0.5	1	EPA Method 8270
Hexachlorophene	µg/L	83.5	167	EPA Method 8270
Hexachloropropene	µg/L	81	162	EPA Method 8270
2-Hexanone	µg/L	50	100	EPA Method 8240
Indeno[1,2,3-c,d]pyrene	µg/L	0.5	1	EPA Method 8270
Iodine	µg/L	250	500	APHA Method 415A
Iodine-129	µCi/mL	5E-10	1E-09	Interim Final DWS (EPA, 1977)
Iodine-131 ^a	µCi/mL	1.5E-09	3E-09	Interim Final DWS (EPA, 1977)
Iodomethane (Methyl iodide)	µg/L	125	250	EPA Method 8240
Iron	µg/L	150	300	Secondary DWS (CFR, 1995b)
Iron, dissolved	µg/L	150	300	Secondary DWS (CFR, 1995b)
Iron, total recoverable	µg/L	150	300	Secondary DWS (CFR, 1995b)
Iron-55 ^a	µCi/mL	1E-06	2E-06	Interim Final DWS (EPA, 1977)
Iron-59 ^a	µCi/mL	1E-07	2E-07	Interim Final DWS (EPA, 1977)
Isobutyl alcohol	µg/L	834.5	1,669	EPA Method 8240
Isodrin	µg/L	81	162	EPA Method 8270
Isophorone	µg/L	5.1	10.2	EPA Method 8270
Isopropylbenzene	µg/L	5	10	EPA Method 8260
p-Isopropyltoluene	µg/L	5	10	EPA Method 8260
Isosafrole	µg/L	81	162	EPA Method 8270
Kepone	µg/L	81	162	EPA Method 8270
Lanthanum-140 ^a	µCi/mL	3E-08	6E-08	Interim Final DWS (EPA, 1977)
Lead	µg/L	25	50	Final DWS (SCDHEC, 1981)
Lead, dissolved	µg/L	25	50	Final DWS (SCDHEC, 1981)
Lead, total recoverable	µg/L	25	50	Final DWS (SCDHEC, 1981)
Lead-212	µCi/mL	6.2E-08	1.23E-07	Proposed DWS (EPA, 1991a)
Lindane	µg/L	0.1	0.2	Final DWS (CFR, 1995a)
Lithium	µg/L	125	250	EPA Method 6010
Lithium, dissolved	µg/L	125	250	EPA Method 6010
Lithium, total recoverable	µg/L	125	250	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	Secondary DWS (CFR, 1995b)
Manganese, dissolved	µg/L	25	50	Secondary DWS (CFR, 1995b)
Manganese, total recoverable	µg/L	25	50	Secondary DWS (CFR, 1995b)
Manganese-54	µCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Mercury	µg/L	1	2	Final DWS (CFR, 1995a)
Mercury, dissolved	µg/L	1	2	Final DWS (CFR, 1995a)
Mercury, total recoverable	µg/L	1	2	Final DWS (CFR, 1995a)
Methacrylonitrile	µg/L	416.5	833	EPA Method 8240
Methapyrilene	µg/L	81	162	EPA Method 8270
Methoxychlor	µg/L	20	40	Final DWS (CFR, 1995a)
Methyl tert-butyl ether	µg/L	5	10	EPA Method 8260
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	81	162	EPA Method 8270
3-Methylcholanthrene	µg/L	81	162	EPA Method 8270
2-Methyl-4,6-dinitrophenol	µg/L	51	102	EPA Method 8270
2-Methylnaphthalene	µg/L	5	10	EPA Method 8270
Molybdenum	µg/L	250	500	EPA Method 6010

<i>Analyte</i>	<i>Unit</i>	<i>Flag 1</i>	<i>Flag 2</i>	<i>Source</i>
Molybdenum, dissolved	µg/L	250	500	EPA Method 6010
Molybdenum, total recoverable	µg/L	250	500	EPA Method 6010
Naphthalene	µg/L	83.5	167	EPA Method 8270
1,4-Naphthoquinone	µg/L	81	162	EPA Method 8270
1-Naphthylamine	µg/L	81	162	EPA Method 8270
2-Naphthylamine	µg/L	81	162	EPA Method 8270
Neptunium-237	µCi/mL	3.53E-09	7.06E-09	Proposed DWS (EPA, 1991a)
Neptunium-239	µCi/mL	8.4E-07	1.68E-06	Proposed DWS (EPA, 1991a)
Nickel	µg/L	50	100	Final DWS (CFR, 1995a)
Nickel, dissolved	µg/L	50	100	Final DWS (CFR, 1995a)
Nickel, total recoverable	µg/L	50	100	Final DWS (CFR, 1995a)
Nickel-59	µCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Nickel-63	µCi/mL	2.5E-08	5E-08	Interim Final DWS (EPA, 1977)
Niobium-95 ^a	µCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Nitrate as nitrogen	µg/L	5,000	10,000	Final DWS (CFR, 1995a)
Nitrate-nitrite as nitrogen	µg/L	5,000	10,000	Final DWS (CFR, 1995a)
Nitrite as nitrogen	µg/L	500	1,000	Final DWS (CFR, 1995a)
m-Nitroaniline	µg/L	5	10	EPA Method 8270
o-Nitroaniline	µg/L	5	10	EPA Method 8270
p-Nitroaniline	µg/L	5	10	EPA Method 8270
Nitrobenzene	µg/L	5.1	10.2	EPA Method 8270
Nitrogen by Kjeldahl method	µg/L	500	1,000	EPA Method 351.2
2-Nitrophenol	µg/L	5.1	10.2	EPA Method 8270
4-Nitrophenol	µg/L	5.1	10.2	EPA Method 8270
4-Nitroquinoline-1-oxide	µg/L	81	162	EPA Method 8270
N-Nitrosodi-n-butylamine	µg/L	81	162	EPA Method 8270
N-Nitrosodiethylamine	µg/L	81	162	EPA Method 8270
N-Nitrosodimethylamine	µg/L	83.5	167	EPA Method 8270
N-Nitrosodiphenylamine	µg/L	5.1	10.2	EPA Method 8270
N-Nitrosodipropylamine	µg/L	5.1	10.2	EPA Method 8270
N-Nitrosomethylethylamine	µg/L	81	162	EPA Method 8270
N-Nitrosomorpholine	µg/L	81	162	EPA Method 8270
N-Nitrosopiperidine	µg/L	81	162	EPA Method 8270
N-Nitrosopyrrolidine	µg/L	81	162	EPA Method 8270
5-Nitro-o-toluidine	µg/L	81	162	EPA Method 8270
Nonvolatile beta	µCi/mL	2.5E-08	5E-08	Interim Final DWS (EPA, 1977)
Octachlorodibenzo-p-dioxin isomers	µg/L	0.0085	0.017	EPA Method 8280
Octachlorodibenzo-p-furan isomers	µg/L	0.0065	0.013	EPA Method 8280
Odor		No flag	No flag	Set by EPD/EMS
Oil and grease	µg/L	8,350	16,700	EPA Method 413.1
Oxamyl	µg/L	100	200	Final DWS (CFR, 1995a)
Parathion	µg/L	0.4	0.8	EPA Method 8080
Parathion methyl	µg/L	0.4	0.8	EPA Method 8080
PCB 1016	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1221	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1232	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1242	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1248	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1254	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1260	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
PCB 1262	µg/L	0.25	0.5	Final DWS (CFR, 1995a)
Pentachlorobenzene	µg/L	81	162	EPA Method 8270
Pentachlorodibenzo-p-dioxin isomers	µg/L	0.008	0.016	EPA Method 8280
1,2,3,7,8-PCDD	µg/L	0.0075	0.015	EPA Method 8280
Pentachlorodibenzo-p-furan isomers	µg/L	0.0085	0.017	EPA Method 8280

Analyte	Unit	Flag 1	Flag 2	Source
1,2,3,7,8-PCDF	µg/L	0.0085	0.017	EPA Method 8280
Pentachloroethane	µg/L	81	162	EPA Method 8270
Pentachloronitrobenzene	µg/L	81	162	EPA Method 8270
Pentachlorophenol	µg/L	0.5	1	Final DWS (CFR, 1995a)
pH ^d	pH	8	10	Set by EPD/EMS
pH ^d	pH	4	3	Set by EPD/EMS
Phenacetin	µg/L	81	162	EPA Method 8270
Phenanthrene	µg/L	5.1	10.2	EPA Method 8270
Phenol	µg/L	83.5	167	EPA Method 8270
Phenols	µg/L	50	100	EPA Method 420.1
p-Phenylenediamine	µg/L	81	162	EPA Method 8270
Phorate	µg/L	0.85	1.7	EPA Method 8080
Picloram	µg/L	250	500	Final DWS (CFR, 1995a)
2-Picoline	µg/L	81	162	EPA Method 8270
Plutonium-238	µCi/mL	3.51E-09	7.02E-09	Proposed DWS (EPA, 1991a)
Plutonium-239	µCi/mL	3.11E-08	6.21E-08	Proposed DWS (EPA, 1991a)
Plutonium-239/240 ^c	µCi/mL	3.11E-08	6.21E-08	Proposed DWS (EPA, 1991a)
Plutonium-240	µCi/mL	3.11E-08	6.22E-08	Proposed DWS (EPA, 1991a)
Plutonium-241 ^a	µCi/mL	3.13E-08	6.26E-08	Proposed DWS (EPA, 1991a)
Plutonium-242 ^a	µCi/mL	3.27E-08	6.54E-08	Proposed DWS (EPA, 1991a)
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	µCi/mL	1.5E-07	3E-07	Proposed DWS (EPA, 1986a)
Promethium-144	µCi/mL	5E-08	1E-07	EPA Method 901.1
Promethium-146	µCi/mL	5E-08	1E-07	EPA Method 901.1
Promethium-147	µCi/mL	2.62E-06	5.24E-06	Proposed DWS (EPA, 1991a)
Pronamid	µg/L	81	162	EPA Method 8270
Propionitrile	µg/L	1,665	3,330	EPA Method 8240
n-Propylbenzene	µg/L	5	10	EPA Method 8260
Pyrene	µg/L	5.1	10.2	EPA Method 8270
Pyridine	µg/L	81	162	EPA Method 8270
Radium, total alpha-emitting	µCi/mL	1E-08	2E-08	Proposed DWS (EPA, 1991a)
Radium-226	µCi/mL	1E-08	2E-08	Proposed DWS (EPA, 1991a)
Radium-228	µCi/mL	1E-08	2E-08	Proposed DWS (EPA, 1991a)
Radon-222	µCi/mL	1.5E-07	3E-07	Proposed DWS (EPA, 1991a)
Ruthenium-103 ^a	µCi/mL	1E-07	2E-07	Interim Final DWS (EPA, 1977)
Ruthenium-106	µCi/mL	1.5E-08	3E-08	Interim Final DWS (EPA, 1977)
Safrole	µg/L	81	162	EPA Method 8270
Selenium	µg/L	25	50	Final DWS (CFR, 1995a)
Selenium, dissolved	µg/L	25	50	Final DWS (CFR, 1995a)
Selenium, total recoverable	µg/L	25	50	Final DWS (CFR, 1995a)
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	Secondary DWS (CFR, 1995b)
Silver, dissolved	µg/L	50	100	Secondary DWS (CFR, 1995b)
Silver, total recoverable	µg/L	50	100	Secondary DWS (CFR, 1995b)
Simazine	µg/L	2	4	Final DWS (CFR, 1995a)
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	µCi/mL	2.33E-07	4.66E-07	Proposed DWS (EPA, 1991a)
Specific conductance ^d	µS/cm	250	500	Set by EPD/EMS
Strontium-89	µCi/mL	1E-08	2E-08	Interim Final DWS (EPA, 1977)

Analyte	Unit	Flag 1	Flag 2	Source
Strontium-89/90 ^c	μCi/mL	4E-09	8E-09	Final DWS (CFR, 1995a)
Strontium-90	μCi/mL	4E-09	8E-09	Final DWS (CFR, 1995a)
Styrene	μg/L	50	100	Final DWS (CFR, 1995a)
Sulfate	μg/L	200,000	400,000	Proposed DWS (EPA, 1990)
Sulfide	μg/L	8,350	16,700	EPA Method 9030
Sulfotep	μg/L	81	162	EPA Method 8270
Surfactants		No flag	No flag	Set by EPD/EMS
2,3,7,8-TCDD	μg/L	0.007	0.014	Final DWS (CFR, 1995a)
2,3,7,8-TCDF	μg/L	0.00425	0.0085	EPA Method 8280
Technetium-99	μCi/mL	4.5E-07	9E-07	Interim Final DWS (EPA, 1977)
1,2,4,5-Tetrachlorobenzene	μg/L	81	162	EPA Method 8270
Tetrachlorodibenzo-p-dioxin isomers	μg/L	0.007	0.014	EPA Method 8280
Tetrachlorodibenzo-p-furan isomers	μg/L	0.0055	0.011	EPA Method 8280
1,1,1,2-Tetrachloroethane	μg/L	10	20	EPA Method 8240
1,1,2,2-Tetrachloroethane	μg/L	50	100	EPA Method 8240
Tetrachloroethylene	μg/L	2.5	5	Final DWS (CFR, 1995a)
2,3,4,6-Tetrachlorophenol	μg/L	83.5	167	EPA Method 8270
Thallium	μg/L	1	2	Final DWS (CFR, 1995a)
Thallium, dissolved	μg/L	1	2	Final DWS (CFR, 1995a)
Thallium, total recoverable	μg/L	1	2	Final DWS (CFR, 1995a)
Thionazin	μg/L	81	162	EPA Method 8270
Thorium-228	μCi/mL	6.25E-08	1.25E-07	Proposed DWS (EPA, 1991a)
Thorium-230	μCi/mL	3.96E-08	7.92E-08	Proposed DWS (EPA, 1991a)
Thorium-232	μCi/mL	4.4E-08	8.8E-08	Proposed DWS (EPA, 1991a)
Thorium-234 ^a	μCi/mL	2E-07	4.01E-07	Proposed DWS (EPA, 1991a)
Tin	μg/L	250	500	EPA Method 282.2
Tin, dissolved	μg/L	250	500	EPA Method 282.2
Tin, total recoverable	μg/L	250	500	EPA Method 282.2
Tin-113	μCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Toluene	μg/L	500	1,000	Final DWS (CFR, 1995a)
o-Toluidine	μg/L	81	162	EPA Method 8270
Total carbon	μg/L	5,000	10,000	EPA Method 9060
Total coliform	N/A	0	0	Final DWS (CFR, 1995a)
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	8,350	16,700	EPA Method 9060
Total organic carbon	μg/L	500,000	1,000,000	EPA Method 9060
Total organic halogens	μg/L	50	100	EPA Method 9020
Total organic nitrogen	μg/L	500	1,000	APHA Method 420
Total petroleum hydrocarbons	μg/L	8,350	16,700	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 DWS (CFR, 1995a)
2,4,5-TP (Silvex)	μg/L	25	50	Final DWS (CFR, 1995a)
Tributyl phosphate	μg/L	86	172	EPA Method 8270
1,2,3-Trichlorobenzene	μg/L	5	10	EPA Method 8260
1,2,4-Trichlorobenzene	μg/L	35	70	Final DWS (CFR, 1995a)
1,1,1-Trichloroethane	μg/L	100	200	Final DWS (CFR, 1995a)
1,1,2-Trichloroethane	μg/L	2.5	5	Final DWS (CFR, 1995a)
Trichloroethylene	μg/L	2.5	5	Final DWS (CFR, 1995a)
Trichlorofluoromethane	μg/L	10	20	EPA Method 8240
2,4,5-Trichlorophenol	μg/L	5	10	EPA Method 8270
2,4,6-Trichlorophenol	μg/L	0.5	1	EPA Method 8270
2,4,5-Trichlorophenoxyacetic acid	μg/L	0.25	0.5	EPA Method 8150
1,2,3-Trichloropropane	μg/L	10	20	EPA Method 8240

Analyte	Unit	Flag 1	Flag 2	Source
Trichlorotrifluoroethane	µg/L	50	100	EPA Method 8260
O,O,O-Triethyl phosphorothioate	µg/L	81	162	EPA Method 8270
1,2,4-Trimethylbenzene	µg/L	5	10	EPA Method 8260
1,3,5-Trimethylbenzene	µg/L	5	10	EPA Method 8260
1,3,5-Trinitrobenzene	µg/L	81	162	EPA Method 8270
Tritium	µCi/mL	1E-05	2E-05	Final DWS (CFR, 1995a)
Turbidity ^a		No flag	No flag	Set by EPD/EMS
Uranium	µg/L	10	20	Proposed DWS (EPA, 1991a)
Uranium alpha activity	µCi/mL	1.5E-08	3E-08	Proposed DWS (EPA, 1991a)
Uranium, dissolved	µg/L	10	20	Proposed DWS (EPA, 1991a)
Uranium, total recoverable	µg/L	10	20	Proposed DWS (EPA, 1991a)
Uranium-233/234 ^c	µCi/mL	6.9E-09	1.38E-08	Proposed DWS (EPA, 1991a)
Uranium-234	µCi/mL	6.95E-09	1.39E-08	Proposed DWS (EPA, 1991a)
Uranium-235	µCi/mL	7.25E-09	1.45E-08	Proposed DWS (EPA, 1991a)
Uranium-238	µCi/mL	7.3E-09	1.46E-08	Proposed DWS (EPA, 1991a)
Vanadium	µg/L	66.5	133	EPA Method 6010
Vanadium, dissolved	µg/L	66.5	133	EPA Method 6010
Vanadium, total recoverable	µg/L	66.5	133	EPA Method 6010
Vinyl acetate	µg/L	50	100	EPA Method 8240
m/p-Xylene	µg/L	81	162	EPA Method 8260
o-Xylene	µg/L	5	10	EPA Method 8260
Xylenes	µg/L	5,000	10,000	Final DWS (CFR, 1995a)
Yttrium-88	µCi/mL	5E-08	1E-07	EPA Method 901.1
Zinc	µg/L	2,500	5,000	Secondary DWS (CFR, 1995b)
Zinc, dissolved	µg/L	2,500	5,000	Secondary DWS (CFR, 1995b)
Zinc, total recoverable	µg/L	2,500	5,000	Secondary DWS (CFR, 1995b)
Zinc-65	µCi/mL	1.5E-07	3E-07	Interim Final DWS (EPA, 1977)
Zirconium-95	µCi/mL	1E-07	2E-07	Interim Final DWS (EPA, 1977)
Zirconium/Niobium-95 ^a	µCi/mL	1E-07	2E-07	Interim Final DWS (EPA, 1977)

^a EMS discontinued monitoring this radionuclide because it is inappropriate for the SRS groundwater monitoring program.

^b EPD/EMS set this flagging criterion using the 1991 proposed DWS because the final DWS in 1977 may have been in error.

^c When radionuclide analyses are combined, the lowest DWS of the two isotopes is used for flagging.

^d Will not trigger scheduling.

^e The primary maximum contaminant level range for turbidity is 1–5 NTU, which is inappropriate for the SRS groundwater monitoring program.

Appendix C

Figures

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Figure 1. Location of the TNX Area at the Savannah River Site

Figure 2. Location of the Groundwater Monitoring Wells in the Unconfined Aquifer at the TNX Area

Figure 3. Location of the Groundwater Monitoring Wells in the Semiconfined Aquifer at the TNX Area

Figure 4. Carbon Tetrachloride Concentrations in the Unconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 5. Carbon Tetrachloride Concentrations in the Unconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 6. Carbon Tetrachloride Concentrations in the Semiconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 7. Carbon Tetrachloride Concentrations in the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 8. Nitrate Concentrations in the Unconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 9. Nitrate Concentrations in the Unconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 10. Nitrate Concentrations in the Semiconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 11. Nitrate Concentrations in the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 12. Trichloroethylene Concentrations in the Unconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 13. Trichloroethylene Concentrations in the Unconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 14. Trichloroethylene Concentrations in the Semiconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 15. Trichloroethylene Concentrations in the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 16. Piezometric Surface Map of the Unconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 17. Piezometric Surface Map of the Unconfined Aquifer at the TNX Area, Fourth Quarter 1996

Figure 18. Water Elevation Map of the Semiconfined Aquifer at the TNX Area, Second Quarter 1996

Figure 19. Water Elevation Map of the Semiconfined Aquifer at the TNX Area, Fourth Quarter 1996

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

5-day BOD	5-day biochemical oxygen demand
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 or GP	General Engineering Laboratories, Inc.
SC	Savannah River Technology Center
TM	Thermo NUtech
WA or WS	Roy F. Weston, Inc.

Sampling Codes

B	blank sample was collected
C	well was pumping continuously
D	well was dry
E	equipment blank was collected
I	well went dry during sampling; insufficient water to collect all samples
L	well went dry before sampling began; only depth to water can be determined
N	well was not stabilized before sampling began
P	inaccessibility or mechanical failure prevented sample collection and field analysis of the water
S	no water in standpipe; for water-level events only
W	purged water must be containerized; only water-level measurements were obtained
X	well went dry during purging; samples collected after well recovered

Sampling Methods

B	sample collected using an open-bucket bailer
O	sample collected by method other than bailer or pump
P	sample collected using a bladder pump
S	sample collected using a single-speed centrifugal downhole pump
V	sample collected using a variable-speed pump

Units

mg/L	milligrams per liter
msl	mean sea level
MSL	million structures per liter
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
pCi/mL	picocuries per milliliter
pH	pH unit
µg/L	micrograms per liter
µS/cm	microsiemens per centimeter

Other

CS	carbon steel
DF	dilution factor column in data tables
E	exponential notation (e.g., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$)
H	holding time column in data tables
Mod	modifier column in data tables
PDWS	primary drinking water standard
PVC	polyvinyl chloride
ST	exceeded the final PDWS or screening level column in data tables
TOC	Top of casing

Results below Detection

For radiological analyses, the analytical result field contains the result recorded on the analytical instrument and reported by the laboratory, even if it is negative. For nonradiological analyses, if the analyte is not detected, the sample-specific estimated quantitation limit (EQL) is entered into the result field and is reported with a less than [$<$] sign. The EQL is defined as the lowest concentration that can be achieved reliably within specified limits of precision and accuracy during routine laboratory operating conditions. The sample-specific EQL is modified for sample concentration or dilution or unusual aliquot size that affects analytical sensitivity.

Holding Times

Standard analytical methods include a limit, called holding time, on the maximum elapsed time between sample collection and extraction or analysis by the laboratory. In the data tables, a large bullet (•) in the *H*

(holding time) column indicates that holding time was exceeded. Analyses performed beyond holding times may not yield valid results.

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

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

Data Rounding

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

Data Qualification

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

Modifiers

(Blank)	Data are not qualified. Numbers should be interpreted exactly as reported.
I	The value in the result field is the instrument reading, not the sample quantitation limit. Always used with the result qualifier <i>U</i> .
J	Value is estimated because quantitation in the sample or in associated quality control samples did not meet specifications.
L	Value is off-scale high. The actual value is not known but is known to be greater than the value shown.
M	Presence of the analyte is verified but not quantified.
R	Result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met.
T	Analyte was not detected; if present, it was below the criteria for detection.
U	Material analyzed for but not detected. Analytical result reported is less than the sample quantitation limit.
V	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.

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

Table D-1. Maximum Levels of Constituents Exceeding the Final Primary Drinking Water Standards

Well	Constituent	Unit	1Q96	Mod	2Q96	Mod	3Q96	Mod	4Q96	Mod
Semiconfined Aquifer										
P 26A	Antimony	µg/L	NA		NA		1,100		NA	
	Beryllium	µg/L	NA		NA		1,200		NA	
	Dichloromethane	µg/L	—		—		5.6	JE	—	
	Gross alpha	pCi/L	—		—		—		1.7E+01	
P 26D	Copper	µg/L	1,000		NA		NA		NA	
TBG 1	Carbon tetrachloride	µg/L	24		18		11		13	
	Gross alpha	pCi/L	2.8E+01		1.8E+01		—		2.8E+01	
	Nitrate-nitrite as nitrogen	µg/L	15,000		13,000		13,000		12,000	
	Trichloroethylene	µg/L	7.1		5.2		5.6		10	
TBG 3	Carbon tetrachloride	µg/L	360		370	JY	270		270	
	Gross alpha	pCi/L	1.7E+01		3.7E+01		2.2E+01		2.3E+01	
	Nitrate-nitrite as nitrogen	µg/L	23,000		24,000	Y	23,000		17,000	J
	Tetrachloroethylene	µg/L	11	JE	11	JY	11		8.3	
	Trichloroethylene	µg/L	470		550	JY	410	J	360	
TBG 4	Carbon tetrachloride	µg/L	260		580	Y	270		280	
	Dichloromethane	µg/L	19	JE	—		—		—	
	Gross alpha	pCi/L	1.8E+01		3.5E+01		2.2E+01	J	4.6E+01	
	Mercury	µg/L	2.7		—		2.4	V	2.2	
	Nitrate-nitrite as nitrogen	µg/L	30,000		30,000		30,000		30,000	J
	Tetrachloroethylene	µg/L	20	JE	28	Y	27		28	
	Trichloroethylene	µg/L	640		1,500	Y	530		560	
TBG 5	Chloroform	µg/L	NA		—		—		130	
	Trichloroethylene	µg/L	NA		690		840		1,400	
TBG 5B	Mercury	µg/L	11		—		—		—	
TBG 6	Carbon tetrachloride	µg/L	—		7.1	Y	—		6.4	
	Dichloromethane	µg/L	34	JE	—		—		—	
	Nitrate-nitrite as nitrogen	µg/L	10,000		12,000	Y	11,000		10,000	
	Trichloroethylene	µg/L	1,400		1,900	Y	1,700		1,800	
TIR 1M	Carbon tetrachloride	µg/L	NA		NA	M9	—	M10	5.5	
								M11	5.3	
								M12	5.1	
	Trichloroethylene	µg/L	NA		NA	M9	26	M10	39	
								M11	35	
								M12	38	
TIR 1U	Carbon tetrachloride	µg/L	NA		NA	M9	6.8	M10	8.6	J
								M11	7.1	
								M12	7.3	
	Nitrate as nitrogen	µg/L	NA		NA	M9	17,000	M10	16,000	
								M11	17,000	JV
								M12	17,000	
	Trichloroethylene	µg/L	NA		NA	M9	63	M10	74	J
								M11	70	

Well	Constituent	Unit	1Q96	Mod	2Q96	Mod	3Q96	Mod	4Q96	Mod
								M12	80	
TIR 2	Carbon tetrachloride	µg/L	NA		NA	M9	7.2	M10	12	
								M11	15	
								M12	15	
	Nitrite as nitrogen	µg/L	NA		NA	M9	—	M10	—	
								M11	2,900	
								M12	—	
	Trichloroethylene	µg/L	NA		NA	M9	39	M10	54	
								M11	57	
								M12	60	
TIR 3B	Carbon tetrachloride	µg/L	NA		NA	M9	91	M10	94	J
								M11	77	
								M12	86	
	Nitrate as nitrogen	µg/L	NA		NA	M9	10,000	M10	—	
								M11	—	
								M12	—	
	Trichloroethylene	µg/L	NA		NA	M9	800	M10	630	J
								M11	700	J
								M12	750	
TNX 2D	Lead	µg/L	—		51	J	—		—	
TNX 3D	Carbon tetrachloride	µg/L	33		20		—		41	
	Gross alpha	pCi/L	1.6E+01		2.3E+01		2.5E+01		—	
	Nitrate-nitrite as nitrogen	µg/L	31,000		30,000		19,000		11,000	
	Tetrachloroethylene	µg/L	13		12		—		—	
	Trichloroethylene	µg/L	180		170	J	26		130	
TNX 7D	Lead	µg/L	—		—		—		77	V
TNX 9D	Gross alpha	pCi/L	—		—		—		2.5E+01	
TNX 10D	Trichloroethylene	µg/L	22		9.5		22		26	
TNX 11D	Arsenic	µg/L	—		160		—		670	
	Trichloroethylene	µg/L	5.1		11		—		16	
TNX 14D	Trichloroethylene	µg/L	NA		6.3		12		10	
TNX 15D	Nitrate as nitrogen	µg/L	NA		NA		13,000		12,000	JV
	Nitrate-nitrite as nitrogen	µg/L	NA		10,000		12,000		11,000	J
	Trichloroethylene	µg/L	NA		25		28		29	
TNX 16D	Carbon tetrachloride	µg/L	NA		6.2		—		—	
	Nitrate as nitrogen	µg/L	NA		NA		16,000		15,000	
	Nitrate-nitrite as nitrogen	µg/L	NA		14,000		16,000		13,000	J
	Trichloroethylene	µg/L	NA		71		51		51	
TNX 18D	Trichloroethylene	µg/L	NA		—		6.3		12	
TNX 19D	Chromium	µg/L	NA		—		—		1,100	
TNX 23D	Dichloromethane	µg/L	—		7.6		—		—	

Well	Constituent	Unit	1Q96	Mod	2Q96	Mod	3Q96	Mod	4Q96	Mod
TNX 24D	Gross alpha	pCi/L	1.8E+01		—		—		—	
TNX 26D	Dichloromethane	µg/L	—		7.1		—		—	
	Trichloroethylene	µg/L	12		11		11		5.4	
TNX 27D	Carbon tetrachloride	µg/L	NA		NA		NA		9.9	
	Trichloroethylene	µg/L	NA		NA		NA		75	
TRW 1	Carbon tetrachloride	µg/L	NA		NA		25		NA	
	Trichloroethylene	µg/L	NA		NA		340		NA	
TRW 2	Carbon tetrachloride	µg/L	NA		NA		35		NA	
	Trichloroethylene	µg/L	NA		NA		650		NA	
TRW 3	Trichloroethylene	µg/L	NA		NA		160		NA	
TRW 4	Carbon tetrachloride	µg/L	NA		NA		7.7	J	NA	
	Trichloroethylene	µg/L	NA		NA		960	J	NA	
XSB 1A	Gross alpha	pCi/L	—		—		—		1.8E+01	
XSB 1D	Carbon tetrachloride	µg/L	—		6.0		—		17	
	Gross alpha	pCi/L	—		—		—		2.6E+01	
	Mercury	µg/L	—		—		—		9.3	
	Nitrate-nitrite as nitrogen	µg/L	—		—		—		68,000	J
	Trichloroethylene	µg/L	35		29		24		290	
XSB 2D	Carbon tetrachloride	µg/L	18		23		20		16	
	Dichloromethane	µg/L	6.6		—		—		—	
	Nitrate-nitrite as nitrogen	µg/L	10,000		19,000		—		14,000	J
	Trichloroethylene	µg/L	130		140		80		110	
XSB 3A	Mercury	µg/L	—		—		—		7.6	
	Nitrate-nitrite as nitrogen	µg/L	—		11,000	V	—		51,000	J
	Trichloroethylene	µg/L	15		24		14		390	
XSB 4D	Nitrate-nitrite as nitrogen	µg/L	—		—		—		12,000	
	Trichloroethylene	µg/L	12		7.0		12		22	
XSB 5A	Trichloroethylene	µg/L	9.4	Y	5.1		—		13	
YSB 3A	Chromium	µg/L	—		—		—		150	

^a Wells TIR 1M, 1U, 2, and 3B were sampled monthly beginning in September 1996. This table lists the constituents that exceeded the PDWS each month. The designations for the months during which those exceedances occurred (i.e., M9, M10, M11, and M12) are in *italics*.

NA = not analyzed.

— = analyzed but not above the GWPS.

Notes: This table presents the highest value for duplicate/replicate results. The groundwater samples are unfiltered; therefore, the results for metals are for total recoverable metals.

Table D-2. Maximum Levels of Constituents Exceeding Other Flag 2 Criteria

Well	Constituent	Unit	4Q96	Mod
Semiconfined Aquifer				
P 26A	Gross alpha Iron	pCi/L µg/L	1.7E+01 790	V
TBG 1	Aluminum Carbon tetrachloride Gross alpha Manganese Nitrate-nitrite as nitrogen Radium, total alpha-emitting Total inorganic carbon Trichloroethylene	µg/L µg/L pCi/L µg/L µg/L pCi/L µg/L µg/L	190 13 2.8E+01 84 12,000 6.5E+00 18,000 10	
TBG 3	Aluminum Carbon tetrachloride Gross alpha Manganese Nitrate-nitrite as nitrogen Radium, total alpha-emitting Tetrachloroethylene Total inorganic carbon Total organic halogens Trichloroethylene	µg/L µg/L pCi/L µg/L µg/L pCi/L µg/L µg/L µg/L µg/L	380 270 2.3E+01 360 17,000 1.1E+01 8.3 35,000 430 360	J
TBG 4	Aluminum Carbon tetrachloride Gross alpha Manganese Mercury Nitrate-nitrite as nitrogen Radium, total alpha-emitting Tetrachloroethylene Total inorganic carbon Total organic halogens Trichloroethylene	µg/L µg/L pCi/L µg/L µg/L µg/L pCi/L µg/L µg/L µg/L µg/L	670 280 4.6E+01 390 2.2 30,000 1.4E+01 28 24,000 720 560	J J
TBG 5	Aluminum Chloroform Total organic halogens Trichloroethylene	µg/L µg/L µg/L µg/L	60 130 730 1,400	JE
TBG 5B	Iron	µg/L	760	V
TBG 6	Aluminum Carbon tetrachloride Manganese Nitrate-nitrite as nitrogen Total inorganic carbon Total organic halogens Trichloroethylene	µg/L µg/L µg/L µg/L µg/L µg/L µg/L	120 6.4 110 10,000 21,000 1,400 1,800	JE
TIR 1M ^a	Carbon tetrachloride	µg/L M10 M11 M12	5.5 5.3 5.1	

Well	Constituent	Unit	4Q96	Mod
TIR 1M (continued)	Trichloroethylene	µg/L M10	39	
		M11	35	
		M12	38	
TIR 1U	Carbon tetrachloride	µg/L M10	8.6	J
		M11	7.1	
		M12	7.3	
	Nitrate as nitrogen	µg/L M10	16,000	
		M11	17,000	JV
		M12	17,000	
	Sulfide	µg/L M10	—	
		M11	21,000	V
		M12	—	
	Trichloroethylene	µg/L M10	74	J
		M11	70	
		M12	80	
TIR 2	Carbon tetrachloride	µg/L M10	12	
		M11	15	
		M12	15	
	Nitrite as nitrogen	µg/L M10	—	
		M11	2,900	
		M12	—	
	Trichloroethylene	µg/L M10	54	
		M11	57	
		M12	60	
TIR 3B	Carbon tetrachloride	µg/L M10	94	J
		M11	77	
		M12	86	
	Trichloroethylene	µg/L M10	630	
		M11	700	
		M12	750	
TNX 2D	Aluminum	µg/L	95	JE
	Iron	µg/L	370	V
TNX 3D	Aluminum	µg/L	950	
	Carbon tetrachloride	µg/L	41	
	Iron	µg/L	1,000	
	Nitrate-nitrite as nitrogen	µg/L	11,000	
	Trichloroethylene	µg/L	130	
TNX 4D	Aluminum	µg/L	11,000	
	Iron	µg/L	17,000	V
	Manganese	µg/L	98	
TNX 5D	Aluminum	µg/L	900	
	Iron	µg/L	1,600	V
TNX 6D	Aluminum	µg/L	1,200	
	Iron	µg/L	2,500	V
	Total inorganic carbon	µg/L	18,000	
TNX 7D	Aluminum	µg/L	100	JE
	Lead	µg/L	77	V
TNX 8D	Aluminum	µg/L	77	JE

<i>Well</i>	<i>Constituent</i>	<i>Unit</i>	<i>4Q96</i>	<i>Mod</i>
TNX 8D (continued)	Iron	µg/L	1,300	V
	Total inorganic carbon	µg/L	26,000	
TNX 9D	Gross alpha	pCi/L	2.5E+01	
	Total inorganic carbon	µg/L	17,000	
TNX 10D	Aluminum	µg/L	390	V
	Iron	µg/L	400	V
	Manganese	µg/L	51	
	Trichloroethylene	µg/L	26	
TNX 11D	Aluminum	µg/L	110	JE
	Arsenic	µg/L	670	
	Iron	µg/L	31,000	V
	Trichloroethylene	µg/L	16	
TNX 12D	Manganese	µg/L	510	
TNX 13D	Aluminum	µg/L	1,500	
	Iron	µg/L	1,200	
TNX 14D	Aluminum	µg/L	53	JE
	Trichloroethylene	µg/L	10	
TNX 15D	Aluminum	µg/L	380	JV J
	Manganese	µg/L	100	
	Nitrate as nitrogen	µg/L	12,000	
	Nitrate-nitrite as nitrogen	µg/L	11,000	
	Trichloroethylene	µg/L	29	
TNX 16D	Aluminum	µg/L	220	J
	Manganese	µg/L	69	
	Nitrate as nitrogen	µg/L	15,000	
	Nitrate-nitrite as nitrogen	µg/L	13,000	
	Trichloroethylene	µg/L	51	
TNX 17D	Aluminum	µg/L	57	JE
	Iron	µg/L	3,000	
	Manganese	µg/L	75	
TNX 18D	Trichloroethylene	µg/L	12	
TNX 19D	Aluminum	µg/L	670	
	Chromium	µg/L	1,100	
	Iron	µg/L	3,500	
TNX 21D	Aluminum	µg/L	1,500	
	Iron	µg/L	590	
	Manganese	µg/L	68	
TNX 23D	Manganese	µg/L	92	
TNX 24D	Aluminum	µg/L	290	V
	Iron	µg/L	590	V
	Total inorganic carbon	µg/L	30,000	
TNX 26D	Aluminum	µg/L	3,900	V
	Iron	µg/L	9,800	V

<i>Well</i>	<i>Constituent</i>	<i>Unit</i>	<i>4Q96</i>	<i>Mod</i>
TNX 26D (continued)	Manganese	µg/L	210	
	Total inorganic carbon	µg/L	25,000	
	Trichloroethylene	µg/L	5.4	
TNX 27D	Carbon tetrachloride	µg/L	9.9	
	Trichloroethylene	µg/L	75	
XSB 1A	Gross alpha	pCi/L	1.8E+01	
XSB 1B	Iron	µg/L	720	V
XSB 1D	Aluminum	µg/L	110	JE
	Carbon tetrachloride	µg/L	17	
	Gross alpha	pCi/L	2.6E+01	
	Mercury	µg/L	9.3	
	Nitrate-nitrite as nitrogen	µg/L	68,000	J
	Total organic halogens	µg/L	110	JE
	Trichloroethylene	µg/L	290	
XSB 2D	Aluminum	µg/L	390	
	Carbon tetrachloride	µg/L	16	
	Manganese	µg/L	150	
	Nitrate-nitrite as nitrogen	µg/L	14,000	J
	Trichloroethylene	µg/L	110	
XSB 3A	Mercury	µg/L	7.6	
	Nitrate-nitrite as nitrogen	µg/L	51,000	J
	Total inorganic carbon	µg/L	22,000	
	Trichloroethylene	µg/L	390	
XSB 4D	Nitrate-nitrite as nitrogen	µg/L	12,000	
	Total inorganic carbon	µg/L	18,000	
	Trichloroethylene	µg/L	22	
XSB 5A	Trichloroethylene	µg/L	13	
YSB 1A	Aluminum	µg/L	4,100	
	Iron	µg/L	12,000	
YSB 2A	Iron	µg/L	390	V
YSB 3A	Aluminum	µg/L	1,700	V
	Chromium	µg/L	150	
	Iron	µg/L	7,000	V
	Manganese	µg/L	77	
YSB 4A	Iron	µg/L	330	V

^a Wells TIR 1M, 1U, 2, and 3B were sampled monthly. This table lists the constituents that exceeded the Flag 2 criteria each month. The designations for the months during which those exceedances occurred (i.e., M10, M11, and M12) are in italics.

– = analyzed but not above the Flag 2 criterion.

Notes: This table presents the highest values for duplicate/replicate results. The groundwater samples are unfiltered; therefore, the results for 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).

Table D-3. Groundwater Monitoring Results for Individual Wells

WELL P 26A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N72010.4 E18055.9	33.214463 °N 81.759058 °W	32.0–22.0 ft msl	154 ft msl	4" PVC	S	Semiconfined

SAMPLE DATE	03/04/96	04/19/96	09/11/96	12/02/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	118.9	119.3	116.4	115.3	ft msl
pH	5.2	5.4	5.4	5.2	pH
Sp. conductance	34	34	38	36	µS/cm
Water temperature	25.0	22.0	25.0	25.0	°C
Alkalinity as CaCO ₃	18	2	6	5	mg/L
Turbidity	1	0	1	0	NTU
Volumes purged	3.9	2.8	1.6	3.3	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	22	52	87	<29	1	V	µg/L	WA	0
		Antimony, total recoverable			1,100				µg/L		
		Arsenic, total recoverable	<40	<40	1.9	<40	1		µg/L	WA	0
		Barium, total recoverable	31	26	29	24	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Beryllium, total recoverable			1,200				µg/L		
		Boron, total recoverable	35	240	150	<43	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.58	<4.7	0.49	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	3,700	3,000	3,400	2,700	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloride	1,800	2,000	1,900	1,700	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.1	<7.0	<0.73	<7.0	1		µg/L	WA	0
		Cobalt, total recoverable			<1.2				µg/L		
		Copper, total recoverable			<4.0				µg/L		
		Dibromochloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0					µg/L		
		trans-1,2-Dichloroethylene			<2.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<5.1	<1.6	5.6	<4.0	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<0.050	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.050	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Fluoride	<67	<49	<52	<16	1	V	µg/L	WA	0
■		Gross alpha	1.4E+00	1.8E+00	1.5E+00	1.7E+01	1		pCi/L	TM	2
		Iron, total recoverable	1,100	870	1,500	790	1	V	µg/L	WA	2
		Lead, total recoverable	<9.0	<47	8.4	4.8	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.050	<0.025	<0.051	1		µg/L	WA	0
		Lithium, total recoverable	12	10	21	8.5	1	V	µg/L	WA	0
		Magnesium, total recoverable	640	520	650	490	1	V	µg/L	WA	0
		Manganese, total recoverable	23	18	21	17	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	0.13	0.033	1	JE	µg/L	GE	0
		Methoxychlor	<0.53	<0.50	<0.50	<0.51	1		µg/L	WA	0
		Nickel, total recoverable			1.7				µg/L		
		Nitrate-nitrite as nitrogen	<20	<20	2,300	460	1	V	µg/L	GE	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL P 26A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
●		Nonvolatile beta	1.9E+00	4.1E+00	2.9E+00	2.8E+00	1	J1	pCi/L	TM	0
		pH	5.7	5.6	5.8	5.6	1	J	pH	WA	0
		Phenols	<36	<36	<5.0	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,500	1,300	1,600	1,300	1	V	µg/L	WA	0
		Radium, total alpha-emitting	7.1E-01	4.5E-01	6.0E-01	5.4E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<5.0	<66	1		µg/L	WA	0
		Silica, total recoverable	36,000	29,000	35,000	27,000	2.1	V	µg/L	WA	0
		Silver, total recoverable	0.75	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	1,500	1,900	1,500	1,200	1	V	µg/L	WA	0
		Specific conductance	38	35	42	40	1		µS/cm	WA	0
		Sulfate	7,000	7,300	6,700	6,300	1	V	µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Thallium, total recoverable			<5.0				µg/L		
		Toluene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	56,000	49,000	60,000	42,000	1	JE	µg/L	WA	0
		Total inorganic carbon	11,000	11,000	11,000	11,000	1		µg/L	WA	1
		Total organic carbon	440	<600	250	<1,000	1		µg/L	WA	0
		Total organic halogens	<120	18	<5.3	13	1	JE	µg/L	WA	0
		Total phosphates (as P)	73	86	68	69	1		µg/L	WA	0
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.025	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tritium	1.1E-01	5.0E-02	1.8E-02	1.3E-01	1	UI	pCi/mL	TM	0
		Vanadium, total recoverable			<1.9				µg/L		
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Zinc, total recoverable			5.4				µg/L		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL P 26B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71996.2 E18050.9	33.214423 °N 81.759044 °W	82.4–71.9 ft msl	154.1 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/04/96 04/19/96 08/29/96 12/05/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	109.4	110.1	108.2	106.9	ft msl
pH	6.2	6.4	6.4	6.4	pH
Sp. conductance	72	74	74	82	µS/cm
Water temperature	20.0	24.0	27.0	23.0	°C
Alkalinity as CaCO ₃	37	20	22	24	mg/L
Turbidity	25	9	3	1	NTU
Volumes purged	4.1	4.1	3.4	4.9	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	180	430	140	<48	1	V	µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	18	18	15	15	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<270	93	30	<270	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.56	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	23,000	21,000	15,000	13,000	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	2,200	2,400	2,200	2,000	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	3.0	5.5	1.3	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	<4.9	<1.7	<3.6	<4.0	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<54	<36	<34	<46	1	V	µg/L	WA	0
		Gross alpha	<i>7.8E-01</i>	<i>1.1E+00</i>	<i>-4.7E-01</i>	<i>1.9E+00</i>	1	J1	pCi/L	TM	0
		Iron, total recoverable	230	520	74	<25	1	V	µg/L	WA	0
		Lead, total recoverable	<12	7.1	8.6	<5.5	1	V	µg/L	WA	0
		Lindane		<0.050	<0.051	<0.051	1		µg/L	WA	0
		Lithium, total recoverable	2.1	<1.5	0.86	<1.1	1	V	µg/L	WA	0
		Magnesium, total recoverable	900	1,200	560	460	1	V	µg/L	WA	0
		Manganese, total recoverable	19	30	5.4	1.6	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50	<0.51	<0.51	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	470	460	610	460	1	V	µg/L	WA	0
		Nonvolatile beta	<i>2.6E+00</i>	<i>2.4E+00</i>	<i>3.8E-01</i>	<i>1.6E+00</i>	1	UI	pCi/L	TM	0
●		pH	6.8	6.9	6.4	6.5	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	920	920	920	910	1	V	µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL P 26B (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	5.4E-01	3.6E-01	2.6E-01	4.3E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	9,700	11,000	8,500	7,900	2.1	V	µg/L	WA	0
		Silver, total recoverable	1.5	0.54	<1.1	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	2,100	2,300	2,100	1,900	1	V	µg/L	WA	0
		Specific conductance	96	110	92	90	1		µS/cm	WA	0
		Sulfate	2,800	2,700	3,000	2,500	1	V	µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	60,000	63,000	62,000	52,000	1		µg/L	WA	0
		Total inorganic carbon	15,000	12,000	12,000	9,800	1		µg/L	WA	1
		Total organic carbon	440	1,300	<1,000	3,600	1		µg/L	WA	0
		Total organic halogens	<120	<120	<120	12	1	JE	µg/L	WA	0
		Total phosphates (as P)	57	52	40	49	1	JE	µg/L	WA	0
		Toxaphene		<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)		<0.52	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.5E+00	1.6E+00	2.2E+00	2.5E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL P 26D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71969.3 E18041.6	33.214348 °N 81.759016 °W	121.9–101.8 ft msl	153.9 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/11/96	04/19/96	08/29/96	12/05/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	116.4	117.4	115.7	114.1	ft msl
pH	6.2	5.8	5.8	6.0	pH
Sp. conductance	44	38	38	42	µS/cm
Water temperature	20.0	24.0	25.0	24.0	°C
Alkalinity as CaCO ₃	12	22	10	11	mg/L
Turbidity	1	1	1	0	NTU
Volumes purged	3.7	9.2	9.9	13	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Acetone	<10						µg/L		
		Acetonitrile (Methyl cyanide)	<10						µg/L		
		Acrolein	<20						µg/L		
		Acrylonitrile	<50						µg/L		
		Allyl chloride	<10						µg/L		
		Aluminum, total recoverable	26	65	200	<40	1	V	µg/L	WA	0
		Arsenic, total recoverable	<3.0	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	12	12	12	12	1	V	µg/L	WA	0
		Benzene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Beryllium, total recoverable	<10						µg/L		
		Bis(2-chloroisopropyl) ether	<20						µg/L		
		Boron, total recoverable	<29	210	<270	<270	1		µg/L	WA	0
		Bromodichloromethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<2.0	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.47	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	4,200	4,200	4,500	4,300	1		µg/L	WA	
		Carbon disulfide	<5.0						µg/L		
		Carbon tetrachloride	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	2,300	2,500	2,300	2,100	1		µg/L	WA	0
		Chlorobenzene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<2.0	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<2.0	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<2.0	<10	<10	<10	1		µg/L	WA	0
		Chloroprene	<2.0						µg/L		
		Chromium, total recoverable	3.6	1.0	1.6	<7.0	1		µg/L	WA	0
		Cobalt, total recoverable	<10						µg/L		
		Copper, total recoverable	1,000						µg/L		
		Dibromochloromethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dibromo-3-chloropropane	<2.0						µg/L		
		1,2-Dibromoethane	<2.0						µg/L		
		Dibromomethane)	<2.0						µg/L		
		trans-1,4-Dichloro-2-butene	<2.0						µg/L		
		Dichlorodifluoromethane	<2.0						µg/L		
		1,1-Dichloroethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene	<2.0			<5.0	1		µg/L	WA	0
		Dichloromethane	2.1	<2.1	<4.1	<4.7	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<0.050	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.050	<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<27	<30	<23	<30	1	V	µg/L	WA	0
		Gross alpha	9.8E-01	2.2E+00	7.2E+00	-1.5E-01	1	UI	pCi/L	TM	0

Notes: Results in bold *italic* exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in *italics* is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL P 26D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		2-Hexanone	<10						µg/L		
		Iodomethane (Methyl iodide)	<10						µg/L		
		Iron, total recoverable	<21	40	130	<23	1	V	µg/L	WA	0
		Isobutyl alcohol	<20						µg/L		
		Lead, total recoverable	0.55	<47	7.4	<7.6	1	V	µg/L	WA	0
		Lindane	<0.025	<0.050	<0.052	<0.051	1		µg/L	WA	0
		Lithium, total recoverable	<0.82	<1.0	0.32	<0.58	1	V	µg/L	WA	0
		Magnesium, total recoverable	520	500	500	500	1	V	µg/L	WA	0
		Manganese, total recoverable	0.97	<7.8	1.2	<7.8	1		µg/L	WA	0
		Mercury, total recoverable	<0.031	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methacrylonitrile	<10						µg/L		
		Methoxychlor	<0.50	<0.50	<0.52	<0.51	1		µg/L	WA	0
		Methyl ethyl ketone	<5.0						µg/L		
		Methyl isobutyl ketone	<10						µg/L		
		Methyl methacrylate	<10						µg/L		
		Nickel, total recoverable	<25						µg/L		
		Nitrate-nitrite as nitrogen	530	590	570	570	1		µg/L	WA	0
		Nonvolatile beta	2.3E+00	2.4E+00	9.0E+00	6.0E-02	1	UI	pCi/L	TM	0
●		pH	6.1	6.0	6.1	6.0	1	J	pH	WA	0
		Phenols	<2.1	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	780	730	730	670	1	V	µg/L	WA	0
		Propionitrile	<20						µg/L		
		Radium, total alpha-emitting	5.9E-01	3.3E-01	4.3E-01	1.9E-01	1	UI	pCi/L	TM	0
		Selenium, total recoverable	0.32	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	8,900	8,200	8,100	7,600	2.1	V	µg/L	WA	0
		Silver, total recoverable	<5.0	<5.0	<1.2	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	2,200	2,400	1,700	1,700	1	V	µg/L	WA	0
		Specific conductance	39	38	42	49	1		µS/cm	WA	0
		Styrene	<2.0						µg/L		
		Sulfate	790	800	920	1,200	1	V	µg/L	WA	0
		1,1,1,2-Tetrachloroethane	<2.0						µg/L		
		1,1,2,2-Tetrachloroethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	48,000	<47,000	37,000	33,000	1	JE	µg/L	WA	0
		Total inorganic carbon	12,000	10,000	10,000	10,000	1		µg/L	WA	1
		Total organic carbon	2,700	<600	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	14	<120	<120	13	1	JE	µg/L	WA	0
		Total phosphates (as P)	27	<70	45	20	1	JE	µg/L	WA	0
		Toxaphene	<0.99	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.025	<0.52	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2,3-Trichloropropane	<2.0						µg/L		
		Tritium	2.7E+00	2.9E+00	2.2E+00	2.1E+00	1		pCi/mL	TM	0
		Vanadium, total recoverable	<10						µg/L		
		Vinyl acetate	<10						µg/L		
		Xylenes	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Zinc, total recoverable	<5.8						µg/L		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TBG 1

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71429.5 E17134.7	33.211674 °N 81.760351 °W	109.1–89.1 ft msl	151.2 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/05/96 04/12/96 08/26/96 11/15/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	101.2	101.4	100.1	99.2	ft msl
pH	4.0	4.2	4.4	4.4	pH
Sp. conductance	160	240	200	20	µS/cm
Water temperature	15.0	23.0	21.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	3	5	1	1	NTU
Volumes purged	1.1	1.1	4.1	5.3	well volumes
Sampling code	X	X		X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	540	400	230	190	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	170	160	130	120	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<270	64	34	<270	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.82	<4.7	0.62	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	4,600	4,000	3,100	2,800	1		µg/L	WA	0
■		Carbon tetrachloride	24	18	11	13	1		µg/L	WA	2
		Chloride	8,000	8,300	7,500	7,500	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.4	1.1	<1.9	<1.1	1	V	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	<1.7	<1.4	<2.3	<9.1	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<83	<67	61	110	1	V	µg/L	WA	0
■		Gross alpha	2.8E+01	1.8E+01	1.5E+01	2.8E+01	1		pCi/L	TM	2
		Iron, total recoverable	220	200	35	<15	1	V	µg/L	WA	0
		Lead, total recoverable	7.1	9.0	6.6	7.6	1	JE	µg/L	WA	0
		Lindane	<0.057	<0.052	<0.051	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	3.2	3.2	2.6	2.4	1	JE	µg/L	WA	0
		Magnesium, total recoverable	3,900	3,600	3,000	2,800	1		µg/L	WA	0
		Manganese, total recoverable	110	100	85	84	1		µg/L	WA	2
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.57	<0.52	<0.50	<0.52	1		µg/L	WA	0
■		Nitrate-nitrite as nitrogen	15,000	13,000	13,000	12,000	25		µg/L	WA	2
		Nonvolatile beta	2.4E+01	1.3E+01	1.0E+01	1.5E+01	1		pCi/L	TM	0
●		pH	4.7	4.7	4.5	4.6	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	3,500	3,500	3,000	3,100	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TBG 1 (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.0E+01	9.0E+00	7.0E+00	6.5E+00	1		pCi/L	TM	2
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	14,000	14,000	13,000	13,000	2.1	V	µg/L	WA	
		Silver, total recoverable	2.7	<0.60	<0.81	<1.2	1	V	µg/L	WA	0
		Sodium, total recoverable	13,000	13,000	11,000	9,900	1	V	µg/L	WA	
		Specific conductance	160	160	150	130	1		µS/cm	WA	0
		Sulfate	360	330	450	600	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	1.5	<5.0	1.3	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	120,000	110,000	120,000	94,000	1		µg/L	WA	
		Total inorganic carbon	15,000	23,000	21,000	18,000	1		µg/L	WA	2
●		Total organic carbon	610	<730	170	400	1	JE	µg/L	WA	0
		Total organic halogens	26	32	28	40	2	JE	µg/L	WA	0
		Total phosphates (as P)	20	17	<70	11	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.54	<0.52	<0.51	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	7.1	5.2	5.6	10	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.5E+00	1.8E+00	1.5E+00	1.9E+00	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 3

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71324.1 E17177.7	33.211511 °N 81.760033 °W	108.9–88.9 ft msl	151.2 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/25/96 05/16/96 08/27/96 11/22/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	104.0	103.7	102.9	102.2	ft msl
pH	4.0	4.2	4.2	4.0	pH
Sp. conductance	220	220	210	180	µS/cm
Water temperature	25.0	27.0	32.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	2	3	1	5	NTU
Volumes purged	4.0	3.3	9.6	0.0	well volumes
Sampling code				X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	410	520	470	380	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	150	180	170	140	1		µg/L	WA	0
		Benzene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	38	<88	46	42	1	JE	µg/L	WA	0
		Bromodichloromethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<25	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.51	0.47	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	4,200	4,800	4,700	3,800	1		µg/L	WA	0
■		Carbon tetrachloride	360	370	270	270	10		µg/L	WA	2
		Chloride	4,200	5,600	8,100	3,800	1		µg/L	WA	0
		Chlorobenzene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<25	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<25	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<25	<10	<10	<10	1		µg/L	WA	0
		Chloroform	10	13	8.3	7.6	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<25	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<1.6	<0.89	8.0	1		µg/L	WA	0
		Dibromochloromethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<13	1.4	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	<7.3	<1.3	<3.7	<2.3	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
●		Endrin	<0.11	<0.11	<0.10	<0.11	1	J	µg/L	WA	0
		Ethylbenzene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	120	110	92	<90	1	V	µg/L	WA	0
■		Gross alpha	1.7E+01	3.7E+01	2.2E+01	2.3E+01	1		pCi/L	TM	2
		Iron, total recoverable	19	<45	27	150	1		µg/L	WA	0
		Lead, total recoverable	<47	<47	7.0	6.1	1	JE	µg/L	WA	0
●		Lindane	<0.054	<0.056	<0.052	<0.056	1	J	µg/L	WA	0
		Lithium, total recoverable	2.1	<2.2	1.7	2.1	1	JE	µg/L	WA	0
		Magnesium, total recoverable	3,200	3,500	3,400	3,000	1		µg/L	WA	0
		Manganese, total recoverable	400	440	430	360	1		µg/L	WA	2
		Mercury, total recoverable	1.1	0.99	1.2	0.54	1	JE	µg/L	WA	0
●		Methoxychlor	<0.54	<0.54	<0.52	<0.56	1	J	µg/L	WA	0
●	■	Nitrate-nitrite as nitrogen	23,000	24,000	23,000	17,000	50	J	µg/L	WA	2
		Nonvolatile beta	1.7E+01	2.5E+01	1.8E+01	1.7E+01	1	V	pCi/L	TM	0
●		pH	4.6	4.4	4.3	4.6	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	2,400	2,600	2,800	2,900	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TBG 3 (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.6E+01	1.5E+01	1.0E+01	1.1E+01	1		pCi/L	TM	2
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	12,000	14,000	13,000	13,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.60	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	19,000	21,000	22,000	18,000	1	V	µg/L	WA	
		Specific conductance	210	220	<8.9	190	1		µS/cm	WA	0
		Sulfate	1,100	1,100	2,100	1,100	1		µg/L	WA	0
		2,4,5-T	<0.52						µg/L		
		1,1,2,2-Tetrachloroethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
	■	Tetrachloroethylene	<i>11</i>	<i>11</i>	<i>11</i>	8.3	1		µg/L	WA	2
		Toluene	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	150,000	170,000	180,000	180,000	1	V	µg/L	WA	
		Total inorganic carbon	10,000	22,000	23,000	35,000	1		µg/L	WA	2
		Total organic carbon	910	640	<1,000	1,400	1		µg/L	WA	0
		Total organic halogens	610	610	650	430	1		µg/L	WA	2
		Total phosphates (as P)	18	26	260	30	1	JE	µg/L	WA	
	●	Toxaphene	<1.1	<1.1	<1.0	<1.1	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.53	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<13	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
	■	Trichloroethylene	<i>470</i>	<i>550</i>	<i>410</i>	360	10		µg/L	WA	2
		Trichlorofluoromethane	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.3E+00	2.1E+00	2.1E+00	1.7E+00	1		pCi/mL	TM	0
		Xylenes	<13	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TBG 4

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71267.1 E17177.7	33.211385 °N 81.759923 °W	109.3–89.3 ft msl	151.3 ft msl	4" PVC	V	Unconfined

SAMPLE DATE	03/25/96	05/16/96	08/27/96	12/04/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	104.3	104.0	103.1	101.8	ft msl
pH	4.0	4.2	4.2	4.2	pH
Sp. conductance	260	260	260	400	µS/cm
Water temperature	25.0	27.0	31.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	2	1	2	2	NTU
Volumes purged	2.3	0.83	3.3	4.8	well volumes
Sampling code					

ANALYTICAL DATA

H	SI	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	840	720	750	670	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	210	190	190	180	1	V	µg/L	WA	0
		Benzene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	36	<32	72	28	1	JE	µg/L	WA	0
		Bromodichloromethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<50	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.50	0.58	0.55	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	6,500	7,000	6,500	5,900	1		µg/L	WA	0
■		Carbon tetrachloride	260	580	270	280	10		µg/L	WA	2
		Chloride	4,800	5,400	4,200	4,500	1		µg/L	WA	0
		Chlorobenzene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<50	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<50	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<50	<10	<10	<10	1		µg/L	WA	0
		Chloroform	7.6	15	7.1	7.8	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<50	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	9.4	<3.4	<2.3	<2.7	1	V	µg/L	WA	0
		Dibromochloromethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<25	2.6	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	19	<2.8	<3.8	<2.7	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.1	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.12	<0.10	<0.10	1	J	µg/L	WA	0
		Ethylbenzene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	180	180	140	170	1	V	µg/L	WA	0
■		Gross alpha	1.8E+01	3.5E+01	2.2E+01	4.6E+01	1		pCi/L	TM	2
		Iron, total recoverable	130	<46	59	<25	1	V	µg/L	WA	0
		Lead, total recoverable	11	7.0	5.8	10	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.058	<0.050	<0.052	1	J	µg/L	WA	0
		Lithium, total recoverable	2.5	<2.2	1.9	1.7	1	JE	µg/L	WA	0
		Magnesium, total recoverable	4,700	4,100	4,300	4,100	1		µg/L	WA	0
		Manganese, total recoverable	460	400	390	390	1		µg/L	WA	2
■		Mercury, total recoverable	2.7	1.4	2.4	2.2	1		µg/L	WA	2
		Methoxychlor	<0.53	<0.58	<0.50	<0.52	1	J	µg/L	WA	0
●	■	Nitrate-nitrite as nitrogen	30,000	30,000	30,000	30,000	500	J	µg/L	WA	2
		Nonvolatile beta	2.2E+01	2.8E+01	2.3E+01	2.5E+01	1		pCi/L	TM	0
●		pH	4.2	4.3	4.2	4.4	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	2,700	2,700	2,600	2,800	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TBG 4 (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.9E+01	1.7E+01	1.3E+01	1.4E+01	1		pCi/L	TM	2
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	12,000	12,000	12,000	12,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<5.0	<1.5	1	V	µg/L	WA	0
		Sodium, total recoverable	25,000	27,000	27,000	25,000	1	V	µg/L	WA	
		Specific conductance	290	280	<8.9	270	1		µS/cm	WA	1
		Sulfate	1,600	1,300	1,000	890	1		µg/L	WA	0
		2,4,5-T	<0.53						µg/L		
		1,1,2,2-Tetrachloroethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Tetrachloroethylene	20	28	27	28	1		µg/L	WA	2
		Toluene	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	180,000	200,000	230,000	170,000	1		µg/L	WA	
		Total inorganic carbon	21,000	23,000	23,000	24,000	1		µg/L	WA	2
		Total organic carbon	520	1,000	<1,000	240	1	JE	µg/L	WA	0
●		Total organic halogens	730	970	760	720	1	J	µg/L	WA	2
		Total phosphates (as P)	33	64	43	45	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.2	<1.0	<1.0	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.53	<0.53	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<25	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	640	1,500	530	560	10		µg/L	WA	2
		Trichlorofluoromethane	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.0E+00	1.8E+00	1.1E+00	1.9E+00	1		pCi/mL	TM	0
		Xylenes	<25	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71226.5 E17354.5	33.211584 °N 81.759379 °W	112.4–92.4 ft msl	149.4 ft msl	4" PVC	B	Unconfined

SAMPLE DATE	03/25/96	04/11/96	08/27/96	12/04/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	104.6	105.9	102.9	101.3	ft msl
pH		4.8	5.2	4.8	pH
Sp. conductance		56	52	58	µS/cm
Water temperature		24.0	32.0	25.0	°C
Alkalinity as CaCO ₃		5	2	3	mg/L
Turbidity		1	6	1	NTU
Volumes purged		0.90	3.3	4.0	well volumes
Sampling code		X			

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		99	190	60	1	JE	µg/L	WA	2
		Arsenic, total recoverable		<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable		8.0	7.6	6.9	1	V	µg/L	WA	0
		Benzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable		58	67	45	1	JE	µg/L	WA	0
		Bromodichloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)		<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable		<4.7	0.67	<4.7	1		µg/L	WA	0
		Calcium, total recoverable		3,800	3,700	3,700	1		µg/L	WA	0
		Carbon tetrachloride		<5.0	<5.0	2.5	1		µg/L	WA	1
		Chloride		3,300	3,200	3,500	1		µg/L	WA	0
		Chlorobenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane		<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)		<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether		<10	<10	<10	1		µg/L	WA	0
■		Chloroform		<5.0	<5.0	130	50		µg/L	WA	2
		Chloromethane (Methyl chloride)		<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable		1.8	<4.6	<2.3	1	V	µg/L	WA	0
		Dibromochloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane		1.4	<3.7	<2.8	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10	<0.10	<0.10	1	J	µg/L	WA	0
		Ethylbenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride		100	110	140	1	V	µg/L	WA	0
		Gross alpha		2.0E+00	1.8E+00	1.7E+00	1	J1	pCi/L	TM	0
		Iron, total recoverable		100	330	<56	1	V	µg/L	WA	0
		Lead, total recoverable		48	10	11	1	JE	µg/L	WA	0
		Lindane		<0.050	<0.051	<0.052	1	J	µg/L	WA	0
		Lithium, total recoverable		<1.1	0.70	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable		640	630	620	1		µg/L	WA	0
		Manganese, total recoverable		7.2	7.4	6.6	1	JE	µg/L	WA	0
		Mercury, total recoverable		<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50	<0.51	<0.52	1	J	µg/L	WA	0
		Nitrate-nitrite as nitrogen		2,800	2,400	2,800	10	V	µg/L	WA	0
		Nonvolatile beta		4.6E+00	2.5E+00	2.4E+00	1	J1	pCi/L	TM	0
●		pH		5.5	5.2	4.9	1	J	pH	WA	0
		Phenols		<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable		960	980	960	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TBG 5 (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		5.6E-01	5.3E-01	5.6E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	10,000	10,000	10,000	9,900	2.1	V	µg/L	WA	
		Silver, total recoverable	0.55	<1.5	<0.52	<0.52	1	V	µg/L	WA	0
		Sodium, total recoverable	3,400	3,300	3,300	3,300	1	V	µg/L	WA	
		Specific conductance	54	55	54	54	1		µS/cm	WA	0
		Sulfate	2,700	4,200	5,300	5,300	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<1.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	30,000	46,000	43,000	43,000	1	JE	µg/L	WA	
		Total inorganic carbon	16,000	13,000	14,000	14,000	1		µg/L	WA	1
		Total organic carbon	1,400	<1,000	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	620	590	730	730	1		µg/L	WA	2
		Total phosphates (as P)	310	400	330	330	1		µg/L	WA	
		Toxaphene	<1.0	<1.0	<1.0	<1.0	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.52	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<1.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	690	840	1,400	1,400	20		µg/L	WA	2
		Trichlorofluoromethane	<5.0	1.1	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.8E+00	2.5E+00	3.1E+00	3.1E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TBG 5A

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71206.8 E17348.8	33.211531 °N 81.759355 °W	80.0–70.0 ft msl	150 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/15/96	08/26/96	11/15/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	103.8	104.1	102.9	106.6	ft msl
pH	4.9	5.2	5.0	5.2	pH
Sp. conductance	29	27	34	24	µS/cm
Water temperature	23.0	25.0	20.0	22.0	°C
Alkalinity as CaCO ₃	3	2	1	3	mg/L
Turbidity	1	1	2	2	NTU
Volumes purged	4.4	4.6	3.4	5.4	well volumes
Sampling code				X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<49	<33	20	18	1	JE	µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	12	10	11	9.4	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Boron, total recoverable	<270	65	48	34	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1	J	µg/L	WA	0
		Cadmium, total recoverable	0.59	<4.7	<4.7	<4.7	1	J	µg/L	WA	0
		Calcium, total recoverable	1,600	1,500	1,500	1,300	1		µg/L	WA	
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	3,400	3,600	3,300	3,200	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1	J	µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1	J	µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1	J	µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1	J	µg/L	WA	0
		Chromium, total recoverable	<7.0	<7.0	<1.0	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	
		trans-1,2-Dichloroethylene				<5.0	1	J	µg/L	WA	0
		Dichloromethane	<3.8	<1.3	<2.8	<6.3	1	JV	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Endrin	<0.11	<0.11	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Fluoride	<29	<21	<23	<38	1	V	µg/L	WA	0
		Gross alpha	1.0E+00	1.6E+00	8.6E-01	7.0E+00	1		pCi/L	TM	0
		Iron, total recoverable	57	9.1	24	96	1	V	µg/L	WA	0
		Lead, total recoverable	<47	10	4.8	6.0	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.055	<0.050	<0.051	1		µg/L	WA	0
		Lithium, total recoverable	<1.3	<0.68	0.77	0.53	1	JE	µg/L	WA	0
		Magnesium, total recoverable	380	360	340	320	1		µg/L	WA	
		Manganese, total recoverable	6.4	4.9	5.3	4.2	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	0.090	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.55	<0.50	<0.51	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	630	570	660	660	1		µg/L	WA	0
		Nonvolatile beta	3.0E+00	2.8E+00	7.3E-01	1.4E+00	1	UI	pCi/L	TM	0
		pH	5.8	5.6	5.4	5.5	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	850	680	820	830	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TBG 5A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	8.4E-01	5.4E-01	3.9E-01	5.4E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	8,700	8,000	7,700	7,900	2.1	V	µg/L	WA	
		Silver, total recoverable	1.5	<5.0	<1.3	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	2,600	2,400	2,400	2,400	1	V	µg/L	WA	
		Specific conductance	30	31	31	28	1		µS/cm	WA	0
		Sulfate	1,100	1,100	1,200	870	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Total dissolved solids	13,000	36,000	23,000	19,000	1	JE	µg/L	WA	
		Total inorganic carbon	8,700	9,000	9,300	7,800	1		µg/L	WA	0
		Total organic carbon	420	<640	<1,000	300	1	JE	µg/L	WA	0
●		Total organic halogens	<120	<120	<120	<120	1	J	µg/L	WA	0
		Total phosphates (as P)	32	30	29	35	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.55	<0.51	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Tritium	2.6E+00	4.4E+00	2.7E+00	2.8E+00	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 5B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71216.8 E17354.8	33.211563 °N 81.759359 °W	56.2-46.2 ft msl	149.4 ft msl	4" PVC	S	Semiconfined

SAMPLE DATE 03/04/96 04/15/96 08/26/96 11/15/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	114.4	114.7	111.7	110.8	ft msl
pH	5.0	4.8	5.0	4.6	pH
Sp. conductance	29	28	38	26	µS/cm
Water temperature	23.0	24.0	19.0	21.0	°C
Alkalinity as CaCO ₃	2	1	1	1	mg/L
Turbidity	5	2	2	2	NTU
Volumes purged	11	9.3	2.8	5.8	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Acetone	<10						µg/L		
		Acetonitrile (Methyl cyanide)	<10						µg/L		
		Acrolein	<20						µg/L		
		Acrylonitrile	<50						µg/L		
		Allyl chloride	<10						µg/L		
		Aluminum, total recoverable	170	<36	50	<150	1		µg/L	WA	0
		Arsenic, total recoverable	<3.0	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	20	18	18	18	1	V	µg/L	WA	0
		Benzene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bis(2-chloroisopropyl) ether	<20						µg/L		
		Boron, total recoverable	<270	100	34	47	1	JE	µg/L	WA	0
		Bromodichloromethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromoform	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromomethane (Methyl bromide)	<2.0	<10	<10	<2.0	1		µg/L	GE	0
		Cadmium, total recoverable	<0.40	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	1,800	1,700	1,700	1,700	1		µg/L	WA	
		Carbon disulfide	<5.0						µg/L		
		Carbon tetrachloride	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	1,800	2,000	1,800	2,100	1		µg/L	WA	0
		Chlorobenzene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Chloroethane	<2.0	<10	<10	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<2.0	<10	<10	<2.0	1		µg/L	GE	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	GE	0
		Chloroform	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<2.0	<10	<10	<2.0	1		µg/L	GE	0
		Chloroprene	<2.0						µg/L		
		Chromium, total recoverable	1.2	<7.0	<7.0	<0.98	1	V	µg/L	WA	0
		Dibromochloromethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dibromo-3-chloropropane	<2.0						µg/L		
		1,2-Dibromoethane	<2.0						µg/L		
		Dibromomethane	<2.0						µg/L		
		trans-1,4-Dichloro-2-butene	<2.0						µg/L		
		Dichlorodifluoromethane	<2.0						µg/L		
		1,1-Dichloroethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene	<2.0			<2.0	1		µg/L	GE	0
		Dichloromethane	<1.3	<1.4	<2.3	<6.1	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<0.049	<1.1	<1.1	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		cis-1,3-Dichloropropene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		trans-1,3-Dichloropropene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Endrin	<0.050	<0.11	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Fluoride	30	<51	<48	<49	1	V	µg/L	WA	0
		Gross alpha	8.6E-01	3.3E-01	7.5E-01	2.1E+00	1	J1	pCi/L	TM	0
		2-Hexanone	<10						µg/L		
		Iodomethane (Methyl iodide)	<10						µg/L		
		Iron, total recoverable	1,200	730	790	760	1	V	µg/L	WA	2

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 5B (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Isobutyl alcohol	<20						µg/L		
		Lead, total recoverable	0.63	6.5	10	15	1	JE	µg/L	WA	0
		Lindane	<0.025	<0.055	<0.050	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	3.2	2.8	<2.7	2.8	1		µg/L	WA	0
		Magnesium, total recoverable	660	630	640	640	1		µg/L	WA	0
		Manganese, total recoverable	16	14	15	15	1		µg/L	WA	0
		Mercury, total recoverable	11	<0.70	<0.70	0.086	1	JE	µg/L	GE	0
		Methacrylonitrile	<10						µg/L		
		Methoxychlor	<0.50	<0.55	<0.50	<0.52	1		µg/L	WA	0
		Methyl ethyl ketone	<5.0						µg/L		
		Methyl isobutyl ketone	<10						µg/L		
		Methyl methacrylate	<10						µg/L		
		Nitrate-nitrite as nitrogen	3.0	4.0	<20	250	1	V	µg/L	GE	0
●		Nonvolatile beta	2.7E+00	3.7E+00	4.6E-01	2.2E+00	1	J1	pCi/L	TM	0
		pH	5.5	5.4	5.3	5.3	1	J	pH	WA	0
		Phenols	<5.0	<24	8.5	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,100	1,000	1,100	1,200	1		µg/L	WA	0
		Propionitrile	<20						µg/L		
		Radium, total alpha-emitting	5.1E-01	1.1E-01	2.2E-01	3.3E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<2.0	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	23,000	20,000	21,000	22,000	2.1	V	µg/L	WA	0
		Silver, total recoverable	0.97	<5.0	<5.0	<1.3	1	V	µg/L	WA	0
		Sodium, total recoverable	1,300	1,300	1,200	1,300	1	V	µg/L	WA	0
		Specific conductance	33	34	34	33	1		µS/cm	WA	0
		Styrene	<2.0						µg/L		
		Sulfate	7,600	7,700	7,500	7,500	1		µg/L	WA	0
		1,1,1,2-Tetrachloroethane	<2.0						µg/L		
		1,1,2,2-Tetrachloroethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Total dissolved solids	38,000	52,000	36,000	43,000	1	JE	µg/L	WA	0
		Total inorganic carbon	7,700	9,300	7,600	8,500	1		µg/L	WA	1
		Total organic carbon	5,700	<460	170	200	1	JE	µg/L	WA	0
●		Total organic halogens	11	<120	<120	<120	1	J	µg/L	WA	0
		Total phosphates (as P)	50	<70	15	16	1	JE	µg/L	WA	0
		Toxaphene	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.025	<0.53	<0.53	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<2.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<2.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2,3-Trichloropropane	<2.0						µg/L		
		Tritium	2.0E-02	2.5E+00	-3.7E-01	2.5E-01	1	UI	pCi/mL	TM	0
		Vinyl acetate	<10						µg/L		
		Xylenes	<2.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TBG 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71482.3 E17290.5	33.212045 °N 81.760044 °W	109.1–89.1 ft msl	148.1 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/25/96	05/16/96	08/27/96	10/31/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	104.0	103.8	102.7	102.2	ft msl
pH	4.9	4.7	4.8	4.8	pH
Sp. conductance	98	120	120	100	µS/cm
Water temperature	24.0	27.0	29.0	27.0	°C
Alkalinity as CaCO ₃	0	0	3	0	mg/L
Turbidity	6	4	7	1	NTU
Volumes purged	3.3	1.6	2.9	4.3	well volumes
Sampling code				X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	230	180	210	120	1	JE	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	40	58	48	66	1		µg/L	WA	0
		Benzene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	28	<270	<270	35	1	JE	µg/L	WA	0
		Bromodichloromethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<100	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	0.76	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	6,400	7,100	7,900	7,800	1		µg/L	WA	0
■		Carbon tetrachloride	<50	7.1	4.0	6.4	1		µg/L	WA	2
		Chloride	4,500	5,000	3,900	4,500	1		µg/L	WA	0
		Chlorobenzene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<100	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<100	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<100	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<50	1.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<100	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	4.8	<7.4	<4.2	1.0	1	JE	µg/L	WA	0
		Dibromochloromethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	34	<2.2	<3.5	<3.7	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
●		Endrin	<0.11	<0.10	<0.10	<0.11	1	J	µg/L	WA	0
		Ethylbenzene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	140	130	120	<120	1	V	µg/L	WA	0
		Gross alpha	3.2E+00	7.4E+00	5.6E+00	1.0E+01	1		pCi/L	TM	1
		Iron, total recoverable	220	120	220	14	1	JE	µg/L	WA	0
		Lead, total recoverable	<47	<47	5.1	<5.6	1	V	µg/L	WA	0
●		Lindane	<0.056	<0.050	<0.050	<0.055	1	J	µg/L	WA	0
		Lithium, total recoverable	1.7	<1.7	1.5	1.3	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,500	1,700	1,700	1,900	1		µg/L	WA	0
		Manganese, total recoverable	61	93	78	110	1		µg/L	WA	2
		Mercury, total recoverable	0.43	0.30	0.40	0.69	1	JE	µg/L	WA	0
●		Methoxychlor	<0.56	<0.50	<0.50	<0.55	1	J	µg/L	WA	0
■		Nitrate-nitrite as nitrogen	10,000	12,000	11,000	10,000	25		µg/L	WA	2
		Nonvolatile beta	5.6E+00	6.5E+00	6.0E+00	6.2E+00	1	V	pCi/L	TM	0
●		pH	5.0	5.0	4.9	5.0	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,700	1,900	2,000	2,300	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 6 (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	4.6E+00	4.5E+00	3.5E+00	4.7E+00	1		pCi/L	TM	1
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	12,000	13,000	12,000	13,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<1.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	7,200	8,200	7,300	7,300	1	V	µg/L	WA	
		Specific conductance	110	120	130	120	1		µS/cm	WA	0
		Sulfate	860	840	1,000	1,400	1		µg/L	WA	0
		2,4,5-T	<0.52						µg/L		
		1,1,2,2-Tetrachloroethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<50	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	80,000	100,000	110,000	160,000	1	V	µg/L	WA	
		Total inorganic carbon	19,000	20,000	19,000	21,000	1		µg/L	WA	2
		Total organic carbon	330	360	500	120	1	JE	µg/L	WA	0
		Total organic halogens	930	850	800	1,400	1		µg/L	WA	2
		Total phosphates (as P)	210	190	210	200	1		µg/L	WA	
●		Toxaphene	<1.1	<1.0	<1.0	<1.1	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<50	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	1,400	1,900	1,700	1,800	50		µg/L	WA	2
		Trichlorofluoromethane	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	3.8E+00	3.9E+00	2.8E+00	3.2E+00	1		pCi/mL	TM	0
		Xylenes	<50	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 7

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71298.5 E17548.1	33.212060 °N 81.759010 °W	104.7–84.7 ft msl	146.8 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/12/96	08/29/96	10/30/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	105.7	106.2	104.8	103.9	ft msl
pH	5.1	5.6	5.2	5.4	pH
Sp. conductance	46	40	50	46	µS/cm
Water temperature	24.0	26.0	26.0	28.0	°C
Alkalinity as CaCO ₃	6	7	7	4	mg/L
Turbidity	2	0	1	0	NTU
Volumes purged	16	6.6	4.4	8.6	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aldrin			<0.025				µg/L		
		Aluminum, total recoverable	<45	<34	170	<150	1		µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<5.0	<40	1		µg/L	WA	0
		Barium, total recoverable	11	10	12	10	1	J	µg/L	WA	0
		Benzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<270	66	48	41	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.71	<4.7	<2.0	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	4,200	4,200	5,200	4,600	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloride	2,200	2,400	2,700	2,500	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<7.0	2.8	<7.0	1		µg/L	WA	0
		p,p'-DDT			<0.10				µg/L		
		Dibromochloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene			<2.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<1.8	<1.4	<2.0	<6.4	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<0.050	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Dieldrin			<0.050				µg/L		
		Endrin	<0.11	<0.10	<0.050	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Fluoride	<31	<29	<18	<42	1	V	µg/L	WA	0
		Gross alpha	3.2E-01	1.6E-01	6.9E-01	2.0E-02	1	UI	pCi/L	TM	0
		Heptachlor			<0.050				µg/L		
		Iron, total recoverable	<37	16	72	<30	1	V	µg/L	WA	0
		Lead, total recoverable	<47	<47	12	12	1	JE	µg/L	WA	0
		Lindane	<0.057	<0.052	<0.025	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<0.71	<0.74	29	0.50	1	JE	µg/L	WA	0
		Magnesium, total recoverable	500	490	570	460	1		µg/L	WA	0
		Manganese, total recoverable	1.2	1.0	1.7	<7.8	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	0.18	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.57	<0.52	<0.50	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	620	600	1,200	990	1		µg/L	WA	0
		Nonvolatile beta	1.4E+00	2.1E+00	2.4E+00	2.0E+00	1	J1	pCi/L	TM	0
		pH	5.9	6.0	6.9	5.9	1	J	pH	WA	0
		Phenols	<36	<36	<5.0	<36	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TBG 7 (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Potassium, total recoverable	1,000	950	1,000	980	1		µg/L	WA	
		Radium, total alpha-emitting	3.3E-01	<i>1.2E-01</i>	4.0E-01	<i>1.7E-01</i>	1	UI	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<5.0	<66	1		µg/L	WA	0
		Silica, total recoverable	8,600	8,000	8,700	8,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.57	<0.54	<0.94	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	2,900	2,800	3,000	2,700	1	V	µg/L	WA	
		Specific conductance	45	47	56	54	1		µS/cm	WA	0
		Sulfate	5,500	5,500	6,000	6,100	1		µg/L	WA	0
		2,4,5-T			<0.050				µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	24,000	27,000	47,000	49,000	1		µg/L	WA	
		Total inorganic carbon	11,000	12,000	12,000	11,000	1		µg/L	WA	1
		Total organic carbon	1,500	<370	360	<1,000	1		µg/L	WA	0
●		Total organic halogens	<120	<120	12	<120	1	J	µg/L	WA	0
		Total phosphates (as P)	22	25	1,300	30	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.52	<0.025	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tritium	8.7E-01	<i>5.1E-01</i>	1.4E+00	<i>1.8E+00</i>	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TIR 1L

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71019.1 E16169.3	°N °W	67.4–65.4 ft msl	101.7 ft msl	PVC		Unconfined

SAMPLE DATE	09/10/96	10/07/96	11/12/96	12/12/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	93.6	93.5	93.2	93.2	ft msl
pH	5.2	5.0	5.0	4.8	pH
Sp. conductance	180	200	160	150	µS/cm
Water temperature	24.0	23.0	23.0	25.0	°C
Alkalinity as CaCO ₃	4	3	1	1	mg/L
Turbidity	1	1	1	1	NTU
Volumes purged					well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Ammonia	<70	<41	<35	<26	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0		<5.0	1		µg/L	WA	0
●		5-day BOD	2,000	<10,000	<10,000	<10,000	1	J	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chemical oxygen demand	20,000	<33,000	14,000	11,000	1	JE	µg/L	WA	0
		Chloride	4,800	5,600	6,100	6,700	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<5.0	<5.0	<6.4	<8.2	1	V	µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Nitrate as nitrogen	<20	90	180	<20	1		µg/L	WA	0
●		Nitrite as nitrogen	<50	6.0	16	7.0	1	JE	µg/L	WA	0
		Sulfate	70,000	62,000	51,000	52,000	10		µg/L	WA	0
		Sulfide	<10,000	<10,000	12,000	<10,000	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	-2.2E+03						pCi/L		
		Total organic carbon	1,200	220	500	150	1	JE	µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	1.5	0.98	2.2	1.9	1	JE	µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

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WELL TIR 1M

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71024.1 E16170.1	°N °W	86.1–84.1 ft msl	101.6 ft msl	PVC		Unconfined
SAMPLE DATE		09/10/96	10/07/96	11/12/96	12/12/96	
FIELD DATA						
Parameter	M9	M10	M11	M12		Unit
Water elevation	99.7	93.2	93.1	92.9		ft msl
pH	5.2	4.8	5.0	4.8		pH
Sp. conductance	100	100	100	100		µS/cm
Water temperature	24.0	22.0	22.0	25.0		°C
Alkalinity as CaCO ₃	2	1	1	1		mg/L
Turbidity	2	0	0	1		NTU
Volumes purged						well volumes
Sampling code						

ANALYTICAL DATA

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Ammonia	<19	<15	<160	<23	1	V	µg/L	WA	0
		Ammonia nitrogen		<50					µg/L		
		Benzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
●		5-day BOD	1,000	1,000	<10,000	<10,000	1	J	µg/L	WA	0
		Bromodichloromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<2.0	<10	<10	1		µg/L	WA	0
■		Carbon tetrachloride	3.9	5.5	5.3	5.1	1		µg/L	WA	2
		Chemical oxygen demand	18,000	<1,000	13,000	<33,000	1		µg/L	WA	0
		Chloride	5,500	5,700	5,200	5,600	1		µg/L	WA	0
		Chlorobenzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<2.0	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<2.0	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<2.0	<10	<10	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene	<5.0	<2.0		<5.0	1		µg/L	WA	0
		Dichloromethane	<5.8	<1.7	<5.9	<8.2	1	V	µg/L	WA	0
		1,2-Dichloropropane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Ethylbenzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
●		Nitrate as nitrogen	6,400	6,500	7,000	130	1		µg/L	WA	0
		Nitrite as nitrogen	<50	<5.0	<50	<50	1	J	µg/L	WA	0
		Sulfate	8,900	8,900	8,200	9,100	1		µg/L	WA	0
		Sulfide	2,900	2,200	5,300	<10,000	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	7.3E+04						pCi/L		
		Total organic carbon	180	530	500	250	1	JE	µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	26	39	35	38	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for December 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for December 1996.

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WELL TIR 1U

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71029.0 E16170.9	°N °W	91.5–89.5 ft msl	101.6 ft msl	PVC		Unconfined

SAMPLE DATE	09/10/96	10/07/96	11/12/96	12/12/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	93.0	93.1	93.0	93.0	ft msl
pH	4.2	4.4	4.2	4.2	pH
Sp. conductance	180	180	200	200	µS/cm
Water temperature	25.0	23.0	22.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	3	1	1	0	NTU
Volumes purged					well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Ammonia	<22	<21	<34	<21	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
●		5-day BOD	1,000	<10,000	<10,000	<10,000	1	J	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
■		Carbon tetrachloride	6.8	8.6	7.1	7.3	1		µg/L	WA	2
		Chemical oxygen demand	16,000	<33,000	4,200	<33,000	1		µg/L	WA	0
		Chloride	7,200	7,200	6,700	7,200	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	1.1	1.1	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<5.3	<1.2	<5.9	<8.1	1	V	µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Nitrate as nitrogen	17,000	16,000	17,000	17,000	25		µg/L	WA	2
●		Nitrite as nitrogen	<50	<50	<50	<50	1	J	µg/L	WA	0
		Sulfate	7,600	7,400	7,100	8,200	1		µg/L	WA	0
		Sulfide	<10,000	<10,000	21,000	<10,000	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	1.1	1.3	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	5.9E+04						pCi/L		
		Total organic carbon	600	220	400	150	1	JE	µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	63	74	70	80	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for December 1996 only. See Appendix B for flagging criteria.

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WELL TIR 2

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71068.7 E16096.3	°N °W	85.8–83.8 ft msl	101.3 ft msl	PVC		Unconfined

SAMPLE DATE	09/10/96	10/07/96	11/12/96	12/12/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	92.3	92.7	92.6	92.4	ft msl
pH	4.6	4.6	4.0	4.2	pH
Sp. conductance	92	88	88	86	µS/cm
Water temperature	24.0	22.0	23.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	4	1	1	1	NTU
Volumes purged					well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Ammonia	<18	<23	<24	<25	1	V	µg/L	WA	0
		Ammonia nitrogen			<50				µg/L		
		Benzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
●		5-day BOD	1,000	<10,000	<1,000	<10,000	1	J	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<2.0	<10	1		µg/L	WA	0
■		Carbon tetrachloride	7.2	12	15	15	1		µg/L	WA	2
		Chemical oxygen demand	24,000	<33,000	29,000	<33,000	1		µg/L	WA	0
		Chloride	5,100	5,400	4,800	4,800	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene	<5.0		<2.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<5.2	<8.2	<4.3	<9.9	1	V	µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Nitrate as nitrogen	4,400	4,100	3,900	<20	1		µg/L	WA	0
●		Nitrite as nitrogen	<50	9.0	2,900	<50	1	J	µg/L	WA	0
		Sulfate	9,800	12,000	9,400	10,000	2		µg/L	WA	0
		Sulfide	<10,000	2,200	<100	<8,100	1	V	µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Total activity	3.4E+04						pCi/L		
		Total organic carbon	180	530	2,200	250	1	JE	µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	39	54	57	60	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for December 1996 only. See Appendix B for flagging criteria.

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WELL TIR 3B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71099.1 E16522.9	°N °W	85.1–83.1 ft msl	100.6 ft msl	PVC	.	Unconfined

SAMPLE DATE	09/10/96	10/07/96	11/12/96	12/12/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	96.0	96.1	95.6	95.3	ft msl
pH	3.8	4.6	4.4	4.4	pH
Sp. conductance	100	100	120	120	µS/cm
Water temperature	23.0	23.0	24.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	9	1	1	1	NTU
Volumes purged					well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Ammonia	<30	<18	<26	<16	1	V	µg/L	WA	0
		Ammonia nitrogen				<50	1		µg/L	GE	0
		Benzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		5-day BOD	1,000	<10,000	<10,000	<1,000	1		µg/L	GE	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromoform	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<2.0	1		µg/L	GE	0
■		Carbon tetrachloride	91	94	77	86	1		µg/L	WA	2
		Chemical oxygen demand	22,000	<33,000	<33,000	11,000	1		µg/L	GE	0
		Chloride	4,900	5,100	4,900	5,700	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Chloroethane	<10	<10	<10	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<2.0	1		µg/L	GE	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	GE	0
		Chloroform	5.9	5.0	4.7	6.0	1		µg/L	GE	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<2.0	1		µg/L	GE	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethylene		<5.0					µg/L		
		trans-1,2-Dichloroethylene	1.9			1.6	1	JE	µg/L	GE	0
		Dichloromethane	<5.4	<8.8	<5.7	<8.8	1	V	µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0		<2.0	1		µg/L	GE	0
		cis-1,3-Dichloropropene	<5.0	<5.0		<2.0	1		µg/L	GE	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Ethylbenzene	<5.0	<5.0		<2.0	1		µg/L	GE	0
		Nitrate as nitrogen	10,000	9,300	9,700	9,500	5		µg/L	GE	1
		Nitrite as nitrogen	<50	<50	<50	5.0	1	JE	µg/L	GE	0
		Sulfate	1,800	2,000	1,600	1,700	1		µg/L	WA	0
●		Sulfide	<10,000	<10,000	<8,500	4,500	1	JE	µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	4.9	4.0	4.4	4.9	1		µg/L	GE	1
		Toluene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Total activity	3.1E+04						pCi/L		
		Total organic carbon	390	120	400	440	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	800	630	700	750	10		µg/L	GE	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for December 1996 only. See Appendix B for flagging criteria.

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WELL TNX 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71613.5 E16699.6	33.211370 °N 81.761853 °W	99.6–79.6 ft msl	156.5 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/04/96 04/12/96 08/26/96 12/05/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	100.0	100.1	98.9	98.1	ft msl
pH	5.7	5.2	5.8	5.6	pH
Sp. conductance	30	26	34	32	µS/cm
Water temperature	21.0	23.0	21.0	24.0	°C
Alkalinity as CaCO ₃	7	5	1	6	mg/L
Turbidity	2	1	1	1	NTU
Volumes purged	4.8	6.6	4.1	12	well volumes
Sampling code				X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<55	<35	<150	<150	1		µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	8.2	7.4	7.2	8.6	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<270	57	<270	<270	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.51	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	2,000	1,800	1,800	2,000	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	1,800	1,800	1,700	1,700	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<7.0	<0.80	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	<6.0	<1.2	<1.5	<6.6	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.12	<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<42	<29	<28	<35	1	V	µg/L	WA	0
		Gross alpha	-8.0E-02	7.9E+00	1.2E+00	1.7E+00	1	J1	pCi/L	TM	0
		Iron, total recoverable	<54	34	30	<53	1	V	µg/L	WA	0
		Lead, total recoverable	5.6	6.6	5.2	14	1	JE	µg/L	WA	0
		Lindane	<0.058	<0.052	<0.050	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<0.98	<0.79	0.52	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	250	250	240	260	1		µg/L	WA	0
		Manganese, total recoverable	8.7	8.9	7.0	7.6	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	0.42	1	JE	µg/L	WA	0
		Methoxychlor	<0.58	<0.52	<0.50	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	74	57	59	47	1	V	µg/L	WA	0
		Nonvolatile beta	6.9E-01	4.2E+00	1.2E+00	1.0E-01	1	UI	pCi/L	TM	0
●		pH	6.0	6.0	5.7	6.2	1	J	pH	WA	0
		Phenols	<36	<36	17	<36	1		µg/L	WA	0
		Potassium, total recoverable	520	480	550	680	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 1D (cont.)

H	SI	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	<i>1.7E-01</i>	<i>1.4E-01</i>	<i>2.4E-01</i>	<i>2.4E-01</i>	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	11,000	10,000	10,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable	1.3	<5.0	<0.71	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	3,000	2,900	2,900	3,000	1	V	µg/L	WA	
		Specific conductance	30	29	31	34	1		µS/cm	WA	0
		Sulfate	3,100	3,100	3,700	4,200	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	20,000	21,000	25,000	34,000	1	JE	µg/L	WA	
		Total inorganic carbon	6,500	7,700	7,700	6,600	1		µg/L	WA	0
		Total organic carbon	710	<460	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	<120	<120	<120	19	1	JE	µg/L	WA	0
		Total phosphates (as P)	35	35	36	38	1	JE	µg/L	WA	
		Toxaphene	<1.2	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.52	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	<i>-1.1E-01</i>	<i>-2.5E-01</i>	<i>-1.4E-01</i>	<i>-3.0E-02</i>	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71452.0 E16788.2	33.211157 °N 81.761306 °W	102.8–82.8 ft msl	155.1 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/12/96	08/26/96	12/05/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	99.7	99.8	98.7	97.4	ft msl
pH	5.0	5.4	6.0	5.0	pH
Sp. conductance	38	30	50	48	µS/cm
Water temperature	24.0	24.0	22.0	23.0	°C
Alkalinity as CaCO ₃	6	7	8	7	mg/L
Turbidity	1	1	9	0	NTU
Volumes purged	3.6	4.3	0.096	4.0	well volumes
Sampling code			X	X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<56	<19	160	95	1	JE	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	24	22	29	24	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<270	70	32	35	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	0.56	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	2,600	2,500	3,500	2,500	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	2,700	2,800	2,700	2,800	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	0.76	<7.0	<4.4	<3.7	1	V	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<5.8	<5.0	<2.7	<6.5	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<63	<49	<45	<60	1	V	µg/L	WA	0
		Gross alpha	6.2E-01	3.2E-01	1.6E+00	2.2E+00	1	J1	pCi/L	TM	0
		Iron, total recoverable	68	24	480	370	1	V	µg/L	WA	2
		Lead, total recoverable	<47	51	11	11	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.053	<0.050	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<1.9	<1.4	3.2	1.4	1	JE	µg/L	WA	0
		Magnesium, total recoverable	540	590	610	630	1		µg/L	WA	0
		Manganese, total recoverable	19	19	22	20	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.53	<0.50	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	730	660	650	520	1		µg/L	WA	0
		Nonvolatile beta	9.0E-02	8.5E-01	1.8E+00	2.4E+00	1	J1	pCi/L	TM	0
		pH	5.8	5.8	5.9	6.0	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	590	560	680	660	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 2D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	6.3E-01	6.1E-01	<i>5.4E-01</i>	5.6E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	11,000	11,000	12,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.51	<5.0	<1.2	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	3,100	3,200	3,800	3,700	1	V	µg/L	WA	
		Specific conductance	40	44	48	46	1		µS/cm	WA	0
		Sulfate	2,400	2,400	3,400	4,400	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	27,000	25,000	43,000	45,000	1	JE	µg/L	WA	
		Total inorganic carbon	13,000	14,000	9,900	15,000	1		µg/L	WA	1
		Total organic carbon	610	<460	280	<1,000	1		µg/L	WA	0
		Total organic halogens	<120	<120	<120	17	1	JE	µg/L	WA	0
		Total phosphates (as P)	57	140	75	89	1		µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.3E+00	1.0E+00	8.3E-01	8.7E-01	1	J1	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 3D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71236.7 E17043.1	33.211098 °N 81.760217 °W	104.9–84.9 ft msl	154.3 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/26/96	05/17/96	08/28/96	11/22/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	100.8	100.2	99.4	97.9	ft msl
pH	5.6	4.4	5.4	5.8	pH
Sp. conductance	300	320	220	100	µS/cm
Water temperature	21.0	25.0	28.0	23.0	°C
Alkalinity as CaCO ₃	12	0	5	4	mg/L
Turbidity	309	6	8	7	NTU
Volumes purged	0.77	0.90	0.0	0.0	well volumes
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	1,800	1,900	990	950	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	170	160	140	45	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	80	<140	80	110	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.50	<4.7	0.47	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	15,000	10,000	14,000	4,700	1		µg/L	WA	0
■		Carbon tetrachloride	33	20	2.3	41	10		µg/L	WA	2
		Chloride	5,000	5,700	4,300	4,000	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	2.1	1.8	<5.0	1.5	1	J	µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	6.4	<5.5	<3.8	4.6	1	JE	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<8.2	<7.2	<2.7	<4.5	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
●		Endrin	<0.11	<0.10	<0.11	<0.11	1	J	µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	120	120	70	<56	1	V	µg/L	WA	0
		Gross alpha	1.6E+01	2.3E+01	2.5E+01	1.1E+01	1		pCi/L	TM	1
		Iron, total recoverable	1,500	810	810	1,000	1		µg/L	WA	2
		Lead, total recoverable	15	12	8.3	5.9	1	JE	µg/L	WA	0
●		Lindane	<0.053	<0.052	<0.056	<0.055	1	J	µg/L	WA	0
		Lithium, total recoverable	14	9.9	11	4.0	1		µg/L	WA	0
		Magnesium, total recoverable	5,200	5,200	4,400	1,400	1		µg/L	WA	0
		Manganese, total recoverable	100	82	66	41	1		µg/L	WA	1
		Mercury, total recoverable	1.1	0.64	1.2	0.66	1	JE	µg/L	WA	0
●		Methoxychlor	<0.53	<0.52	<0.56	<0.55	1	J	µg/L	WA	0
■		Nitrate-nitrite as nitrogen	31,000	30,000	19,000	11,000	25		µg/L	WA	2
		Nonvolatile beta	2.3E+01	3.0E+01	2.2E+01	7.9E+00	1	V	pCi/L	TM	0
●		pH	5.3	5.5	5.7	5.5	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	2,400	2,400	2,200	1,300	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 3D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.2E+01	1.2E+01	5.0E+00	2.0E+00	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	10,000	12,000	10,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.73	<5.0	<0.70	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	22,000	23,000	20,000	10,000	1	V	µg/L	WA	
		Specific conductance	280	270	<8.9	100	1		µS/cm	WA	0
		Sulfate	1,900	2,200	3,000	2,100	1		µg/L	WA	0
		2,4,5-T	<0.52						µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	13	12	1.1	4.8	1	JE	µg/L	WA	1
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	190,000	220,000	160,000	150,000	1	V	µg/L	WA	
		Total inorganic carbon	18,000	9,400	7,700	7,100	1		µg/L	WA	0
		Total organic carbon	4,200	920	7,700	1,100	1		µg/L	WA	0
		Total organic halogens	140	170	310	98	1	JE	µg/L	WA	1
		Total phosphates (as P)	100	74	120	180	1		µg/L	WA	
●		Toxaphene	<1.1	<1.0	<1.1	<1.1	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<2.0	2		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	180	170	26	130	10		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.5E+00	2.7E+00	2.8E+00	1.8E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71002.7 E17223.0	33.210875 °N 81.759290 °W	105.5–85.5 ft msl	149.8 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/05/96	04/12/96	08/26/96	12/05/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	103.3	103.7	102.4	100.4	ft msl
pH	4.0	4.0	4.4	6.0	pH
Sp. conductance	160	96	60	120	µS/cm
Water temperature	20.0	21.0	24.0	21.0	°C
Alkalinity as CaCO ₃	3	5	8	1	mg/L
Turbidity	10	40	99	43	NTU
Volumes purged	0.86	0.84	0.090	0.10	well volumes
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	1,500	1,000	2,000	11,000	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	9.7	8.5	1	JE	µg/L	WA	0
		Barium, total recoverable	20	14	21	57	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	29	34	38	61	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	1.1	1	JE	µg/L	WA	0
		Calcium, total recoverable	2,400	2,100	2,600	3,600	1		µg/L	WA	
		Carbon tetrachloride	2.7	2.4	4.6	4.7	1	JE	µg/L	WA	1
		Chloride	3,100	3,200	3,200	3,400	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	22	13	25	68	1	V	µg/L	WA	1
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<1.5	<5.0	<1.3	<6.5	1	V	µg/L	WA	0
		Dichloromethane	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<140	87	160	190	1	V	µg/L	WA	0
		Gross alpha	7.6E+00	4.9E+00	6.6E+00	1.5E+01	1		pCi/L	TM	1
		Iron, total recoverable	5,000	2,500	3,700	17,000	1	V	µg/L	WA	2
		Lead, total recoverable	8.0	7.0	11	31	1	JE	µg/L	WA	1
		Lindane	<0.055	<0.053	<0.050	<0.051	1		µg/L	WA	0
		Lithium, total recoverable	<1.4	<0.93	1.2	3.6	1		µg/L	WA	0
		Magnesium, total recoverable	650	570	810	1,700	1		µg/L	WA	
		Manganese, total recoverable	40	23	33	98	1		µg/L	WA	2
		Mercury, total recoverable	<0.70	0.13	0.18	0.18	1	JE	µg/L	WA	0
		Methoxychlor	<0.55	<0.53	<0.50	<0.51	1		µg/L	WA	0
●		Nitrate-nitrite as nitrogen	2,700	2,200	5,100	4,900	10	J	µg/L	WA	0
●		Nonvolatile beta	8.8E+00	5.7E+00	7.9E+00	1.3E+01	1	J	pCi/L	TM	0
		pH	5.6	5.8	5.2	5.1	1		pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,000	940	1,200	2,400	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 4D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.8E+00	1.3E+00	2.3E+00	2.4E+00	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	15,000	14,000	16,000	28,000	2.1	V	µg/L	WA	
		Silver, total recoverable	1.4	<0.57	<1.1	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	3,600	3,000	4,100	5,900	1	V	µg/L	WA	
		Specific conductance	38	39	67	67	1		µS/cm	WA	0
		Sulfate	770	820	1,400	2,200	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	1.7	1.3	3.0	2.1	1	JE	µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	44,000	86,000	42,000	63,000	1		µg/L	WA	
		Total inorganic carbon	6,800	8,100	8,700	6,400	1		µg/L	WA	0
		Total organic carbon	5,600	<640	17,000	<1,000	1		µg/L	WA	0
		Total organic halogens	12	<120	19	14	1	JE	µg/L	WA	0
		Total phosphates (as P)	990	600	710	680	2		µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.54	<0.52	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	3.2	2.6	3.0	2.4	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	3.7E+00	3.9E+00	3.6E+00	4.3E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TNX 5D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70995.3 E17363.7	33.211088 °N 81.758905 °W	108.5–88.5 ft msl	149.3 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/05/96	04/12/96	08/26/96	10/30/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	105.0	105.5	104.1	103.4	ft msl
pH	4.4	4.2	4.6	4.4	pH
Sp. conductance	120	160	100	180	µS/cm
Water temperature	16.0	20.0	25.0	27.0	°C
Alkalinity as CaCO ₃	4	6	3	2	mg/L
Turbidity	5	9	5	5	NTU
Volumes purged	0.74	0.81	0.098	0.10	well volumes
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<150	170	1,500	900	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	4.6	<40	1	J	µg/L	WA	0
		Barium, total recoverable	31	33	50	31	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	530	540	410	400	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	0.66	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	7,000	7,000	13,000	7,500	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	18,000	17,000	14,000	13,000	2		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	1.4	1.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	0.71	1.4	16	6.6	1	JEV	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<2.5	<5.0	<2.4	<6.7	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.1	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<97	120	140	140	1	V	µg/L	WA	0
		Gross alpha	5.1E+00	4.2E+00	6.0E+00	6.2E+00	1		pCi/L	TM	0
		Iron, total recoverable	320	440	3,300	1,600	1	V	µg/L	WA	2
		Lead, total recoverable	<47	6.9	12	17	1	JE	µg/L	WA	0
		Lindane	<0.055	<0.052	<0.052	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	4.0	3.9	3.5	2.4	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,100	1,100	1,200	1,200	1		µg/L	WA	0
		Manganese, total recoverable	12	14	20	17	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	0.080	0.13	1	JE	µg/L	WA	0
		Methoxychlor	<0.55	<0.52	<0.52	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	4,500	3,700	4,500	3,600	10	V	µg/L	WA	0
		Nonvolatile beta	5.6E+00	5.4E+00	4.8E+00	5.8E+00	1		pCi/L	TM	0
		pH	5.9	5.8	5.3	5.3	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,200	1,300	1,400	1,400	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 5D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	2.1E+00	1.7E+00	1.9E+00	1.2E+00	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	11,000	11,000	15,000	15,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<0.74	<0.82	<0.97	1	V	µg/L	WA	0
		Sodium, total recoverable	15,000	14,000	11,000	9,900	1	V	µg/L	WA	
		Specific conductance	140	140	130	120	1		µS/cm	WA	0
		Sulfate	11,000	13,000	13,000	17,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	100,000	24,000	84,000	82,000	1		µg/L	WA	
		Total inorganic carbon	16,000	17,000	19,000	13,000	1		µg/L	WA	1
		Total organic carbon	1,400	<550	610	<1,000	1		µg/L	WA	0
		Total organic halogens	<120	14	<120	<120	1		µg/L	WA	0
		Total phosphates (as P)	180	140	160	220	1		µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.53	<0.53	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.3E+00	1.1E+00	1.1E+00	1.2E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold *italic* exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in *italics* is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 6D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70717.6 E17428.7	33.210581 °N 81.758195 °W	109.8–89.8 ft msl	150.5 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/26/96	04/16/96	08/26/96	11/12/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	105.7	105.9	104.4	103.3	ft msl
pH	5.1	4.6	5.0	5.4	pH
Sp. conductance	180	34	180	160	µS/cm
Water temperature	25.0	21.0	24.0	20.0	°C
Alkalinity as CaCO ₃	22	22	19	1	mg/L
Turbidity	79	8	50	9	NTU
Volumes purged	0.67	0.66	0.10	0.11	well volumes
Sampling code		X	X	X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	350	270	530	1,200	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	33	21	24	30	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	1,200	980	770	770	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.51	<4.7	0.50	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	13,000	8,400	15,000	16,000	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	23,000	22,000	19,000	17,000	2		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	9.4	4.9	6.4	5.1	1	JEV	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<3.7	<9.2	<2.6	<5.0	1		µg/L	WA	0
		Dichloromethane	<1.0	<1.0	<1.0	<6.6	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	180	120	150	160	1	V	µg/L	WA	0
		Gross alpha	3.0E+00	5.7E+00	2.8E+00	6.7E+00	1		pCi/L	TM	0
		Iron, total recoverable	1,800	1,100	1,700	2,500	1	V	µg/L	WA	2
		Lead, total recoverable	13	7.0	6.0	18	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.051	<0.050	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	1.2	<0.69	1.0	0.92	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,300	1,100	1,400	1,500	1		µg/L	WA	0
		Manganese, total recoverable	22	17	31	35	1		µg/L	WA	1
		Mercury, total recoverable	0.19	0.11	0.13	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.51	<0.50	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	5,200	3,800	4,100	4,100	10		µg/L	WA	0
		Nonvolatile beta	8.7E+00	4.7E+00	5.0E+00	3.6E+00	1		pCi/L	TM	0
		pH	5.8	5.8	5.6	5.6	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,400	1,000	1,400	1,400	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 6D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	3.1E+00	1.2E+00	1.6E+00	8.9E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	9,600	8,600	11,000	14,000	2.1	V	µg/L	WA	0
		Silver, total recoverable	1.0	<0.85	<1.3	<0.78	1	V	µg/L	WA	0
		Sodium, total recoverable	23,000	20,000	17,000	15,000	1	V	µg/L	WA	0
		Specific conductance	220	200	190	210	1		µS/cm	WA	0
		Sulfate	29,000	31,000	30,000	45,000	10		µg/L	WA	0
		2,4,5-T	<0.52						µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	130,000	140,000	110,000	130,000	1		µg/L	WA	0
		Total inorganic carbon	25,000	25,000	24,000	18,000	1		µg/L	WA	2
		Total organic carbon	520	700	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	32	22	13	<120	1		µg/L	WA	0
		Total phosphates (as P)	270	290	330	350	1		µg/L	WA	0
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.1E+00	1.3E+00	6.5E-01	7.8E-01	1	J1	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 7D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71738.1 E17080.6	33.212267 °N 81.761093 °W	103.6–83.6 ft msl	150.9 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/05/96	04/16/96	08/26/96	10/30/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	101.8	101.7	98.7	100.4	ft msl
pH	5.8	4.8	5.2	4.8	pH
Sp. conductance	62	28	54	64	µS/cm
Water temperature	20.0	22.0	22.0	30.0	°C
Alkalinity as CaCO ₃	12	12	8	0	mg/L
Turbidity	5	3	2	2	NTU
Volumes purged	0.084	1.1	4.0	0.091	well volumes
Sampling code	X	X		X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	330	<110	54	100	1	JE	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	26	29	21	23	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	41	44	30	69	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	0.47	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	3,800	3,200	3,400	2,700	1		µg/L	WA	
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	1,900	2,100	1,900	2,100	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.2	<7.0	<1.5	<1.1	1	V	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<3.1	<8.4	<2.4	<2.8	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.10	<0.11	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<43	<25	<24	<38	1	V	µg/L	WA	0
		Gross alpha	6.2E+00	1.4E+00	1.5E+00	2.3E+00	1		pCi/L	TM	0
		Iron, total recoverable	310	190	68	140	1	V	µg/L	WA	0
		Lead, total recoverable	10	13	7.0	77	1	V	µg/L	WA	2
		Lindane	<0.053	<0.051	<0.050	<0.053	1		µg/L	WA	0
		Lithium, total recoverable	<2.1	3.3	1.6	0.82	1	JE	µg/L	WA	0
		Magnesium, total recoverable	660	840	560	670	1		µg/L	WA	
		Manganese, total recoverable	9.1	17	3.9	11	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.51	<0.50	<0.53	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	98	190	140	160	1	V	µg/L	WA	0
		Nonvolatile beta	3.4E+00	2.0E+00	1.8E+00	3.4E+00	1		pCi/L	TM	0
		pH	6.0	5.7	5.7	5.4	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,200	1,400	1,200	1,300	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 7D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	8.0E-01	6.8E-01	<i>3.6E-01</i>	5.2E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	10,000	8,200	9,400	9,200	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<0.82	<2.2	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	4,700	4,500	3,900	3,900	1	V	µg/L	WA	
		Specific conductance	59	59	55	51	1		µS/cm	WA	0
		Sulfate	11,000	14,000	8,900	11,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	49,000	57,000	41,000	44,000	1	JE	µg/L	WA	
		Total inorganic carbon	16,000	16,000	16,000	14,000	1		µg/L	WA	1
		Total organic carbon	1,700	700	170	240	1	JE	µg/L	WA	0
		Total organic halogens	<120	<120	<120	<120	1		µg/L	WA	0
		Total phosphates (as P)	77	43	34	41	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.0	<1.1	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.51	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.1E+00	8.9E-01	<i>4.6E-01</i>	<i>2.8E-01</i>	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70591.9 E16168.3	33.208244 °N 81.761264 °W	94.0-74.0 ft msl	100.3 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/15/96	08/30/96	12/03/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	94.5	91.4	92.6	92.9	ft msl
pH	5.4	5.4	5.0	5.0	pH
Sp. conductance	140	100	120	120	µS/cm
Water temperature	16.0	19.0	22.3	23.0	°C
Alkalinity as CaCO ₃	18	8	10	5	mg/L
Turbidity	5	1	3	1	NTU
Volumes purged	4.7	16	4.2	11	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	230	83	240	77	1	JE	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	81	68	78	69	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	620	610	790	650	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.75	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	6,000	5,600	5,700	5,500	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	15,000	17,000	8,700	18,000	2		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	1.2	1.0	1.1	1.2	1	JE	µg/L	GE	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.9	<7.0	3.1	<1.6	1	V	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0					µg/L		
		trans-1,2-Dichloroethylene			<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<5.1	<5.0	<2.0	<2.8	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.13	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<40	<30	<35	<38	1	V	µg/L	WA	0
		Gross alpha	2.4E-01	1.0E-01	1.5E+00	2.2E+00	1	J1	pCi/L	TM	0
		Iron, total recoverable	1,700	760	230	1,300	1	V	µg/L	WA	2
		Lead, total recoverable	<21	<47	6.3	12	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.055	<0.063	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<1.5	<0.65	0.79	0.32	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,600	1,300	1,300	1,300	1		µg/L	WA	0
		Manganese, total recoverable	34	23	17	16	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.20	1		µg/L	GE	0
		Methoxychlor	<0.53	<0.55	<0.63	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	3,300	2,800	3,800	4,900	5	V	µg/L	GE	0
		Nonvolatile beta	2.9E+00	3.0E+00	6.5E+00	1.8E+00	1	UI	pCi/L	TM	0
		pH	5.7	5.6	5.5	5.3	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,200	1,100	1,400	1,400	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 8D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	3.9E-01	1.8E-01	2.7E-01	<i>2.0E-01</i>	1	UI	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	12,000	10,000	12,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.76	<0.61	1.1	<0.71	1	V	µg/L	WA	0
		Sodium, total recoverable	16,000	14,000	17,000	15,000	1	V	µg/L	WA	
		Specific conductance	130	130	150	140	1		µS/cm	WA	0
		Sulfate	9,300	9,800	4,200	9,300	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	86,000	120,000	100,000	93,000	1		µg/L	WA	
		Total inorganic carbon	22,000	31,000	28,000	26,000	1		µg/L	WA	2
		Total organic carbon	910	1,600	570	140	1	JE	µg/L	WA	0
		Total organic halogens	22	<120	<120	<120	1		µg/L	WA	0
		Total phosphates (as P)	22	47	18	99	1		µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.3	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.53	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	2.9	2.6	2.8	2.3	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.7E+00	1.6E+00	1.7E+00	1.7E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 9D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70791.4 E16145.8	33.208648 °N 81.761711 °W	95.4–75.4 ft msl	101.7 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/15/96	09/11/96	11/12/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	94.3	94.2	93.1	92.9	ft msl
pH	5.4	4.6	4.6	5.0	pH
Sp. conductance	100	99	100	100	µS/cm
Water temperature	18.0	20.0	24.0	22.0	°C
Alkalinity as CaCO ₃	9	3	1	2	mg/L
Turbidity	3	1	2	1	NTU
Volumes purged	3.5	5.7	7.4	11	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	140	<71	56	25	1	JE	µg/L	WA	0
		Ammonia			<20	<20	1	V	µg/L	WA	0
		Ammonia nitrogen			40				µg/L		
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	29	33	36	32	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		5-day BOD			1,000	1,000	5	JE	µg/L	WA	
		Boron, total recoverable	290	320	500	470	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Cadmium, total recoverable	1.1	<4.7	0.94	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	6,100	6,300	6,100	5,400	1		µg/L	WA	
		Carbon tetrachloride	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chemical oxygen demand			22,000	26,000	1	JE	µg/L	WA	
		Chloride	7,200	8,700	8,400	8,500	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.4	<7.0	1.1	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<2.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<4.4	<1.7	<1.5	<2.9	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Fluoride	<54	<43	<53	<41	1	V	µg/L	WA	0
■		Gross alpha	7.3E-01	4.6E-01	2.6E+00	2.5E+01	1		pCi/L	TM	2
		Iron, total recoverable	1,400	760	370	270	1	V	µg/L	WA	1
		Lead, total recoverable	<23	5.0	<47	<7.1	1	V	µg/L	WA	0
		Lindane	<0.053	<0.055	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	2.9	2.1	1.4	1.1	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,000	1,100	990	910	1		µg/L	WA	
		Manganese, total recoverable	23	19	19	18	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.10	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.55	<0.56	<0.52	1		µg/L	WA	0
●		Nitrate as nitrogen			1,200	1,000	1	JV	µg/L	WA	0
●		Nitrate-nitrite as nitrogen	1,200	1,100	910	980	2		µg/L	WA	0
●		Nitrite as nitrogen			<5.0	<5.0	1	J	µg/L	WA	0
		Nonvolatile beta	4.0E+00	2.7E+00	2.3E+00	3.0E+00	1		pCi/L	TM	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 9D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
●		pH	5.4	6.0	5.4	5.2	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,100	1,100	1,200	1,200	1		µg/L	WA	
		Radium, total alpha-emitting	1.2E+00	2.8E-01	4.2E-01	6.3E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	18,000	16,000	15,000	15,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.69	<1.0	2.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	10,000	10,000	13,000	11,000	1	V	µg/L	WA	
		Specific conductance	110	110	130	110	1		µS/cm	WA	0
		Sulfate	26,000	26,000	29,000	29,000	5		µg/L	WA	0
●		Sulfide			1,800	2,600	1	JE	µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	83,000	94,000	100,000	77,000	1		µg/L	WA	
		Total inorganic carbon	19,000	21,000	19,000	17,000	1		µg/L	WA	2
		Total organic carbon	810	<730	2,100	810	1	JE	µg/L	WA	0
		Total organic halogens	15	<120	<120	16	1	JE	µg/L	WA	0
		Total phosphates (as P)	15	37	67	21	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.53	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	2.3	2.9	1.2	1.3	1	JE	µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tritium	9.6E-01	1.3E+00	1.0E+00	1.3E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 10D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70999.3 E16166.7	33.209142 °N 81.762060 °W	97.0-77.0 ft msl	102.3 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/04/96 04/15/96 08/30/96 12/02/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	94.3	94.3	94.0	93.1	ft msl
pH	5.2	4.7	4.6	5.0	pH
Sp. conductance	160	120	120	135	µS/cm
Water temperature	17.0	20.0	20.3	24.0	°C
Alkalinity as CaCO ₃	4	0	1	4	mg/L
Turbidity	8	2	5	17	NTU
Volumes purged	3.6	9.7	5.9	3.8	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	220	160	230	390	1	V	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	36	100	32	29	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	820	410	1,600	1,500	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	2,700	3,800	2,100	2,000	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	1.4	2.4	1		µg/L	WA	0
		Chloride	12,000	17,000	8,000	7,900	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	1.2	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<7.0	0.73	0.81	1	JE	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane	<2.2	<1.0	<7.6	<1.3	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<38	<36	<31	<29	1	V	µg/L	WA	0
		Gross alpha	7.2E+00	1.2E+00	9.8E+00	1.1E+01	1		pCi/L	TM	1
		Iron, total recoverable	210	99	210	400	1	V	µg/L	WA	2
		Lead, total recoverable	5.9	<47	<47	9.7	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.055	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<1.6	<1.3	1.6	1.3	1	JE	µg/L	WA	0
		Magnesium, total recoverable	890	1,800	700	660	1	V	µg/L	WA	0
		Manganese, total recoverable	51	25	56	51	1		µg/L	WA	2
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.55	<0.56	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	6,600	3,000	8,900	8,200	25		µg/L	WA	1
		Nonvolatile beta	6.5E+00	2.5E+00	7.0E+00	5.6E+00	1		pCi/L	TM	0
		pH	5.0	5.1	5.0	4.9	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	680	570	820	870	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 10D (cont.)

H	SI	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	8.1E-01	2.7E-01	4.4E-01	4.6E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	17,000	21,000	11,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable	0.88	<5.0	<5.0	<0.64	1	V	µg/L	WA	0
		Sodium, total recoverable	18,000	19,000	19,000	18,000	1	V	µg/L	WA	
		Specific conductance	150	150	150	130	1		µS/cm	WA	0
		Sulfate	17,000	24,000	11,000	12,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	110,000	130,000	120,000	92,000	1		µg/L	WA	
		Total inorganic carbon	20,000	30,000	20,000	5,100	1		µg/L	WA	0
		Total organic carbon	2,500	2,900	790	440	1	JE	µg/L	WA	0
		Total organic halogens	19	29	27	37	1	JE	µg/L	WA	0
		Total phosphates (as P)	20	11	9.0	10	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.54	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	22	9.5	22	26	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.3E+00	1.3E+00	2.1E+00	2.2E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 11D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71199.3 E16165.5	33.209582 °N 81.762452 °W	93.2-73.2 ft msl	99.8 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/15/96	08/30/96	10/29/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	94.2	93.9	92.9	92.9	ft msl
pH	5.4	4.8	4.6	4.8	pH
Sp. conductance	56	54	48	44	µS/cm
Water temperature	18.0	23.0	21.9	26.0	°C
Alkalinity as CaCO ₃	2	0	3	1	mg/L
Turbidity	2	1	8	1	NTU
Volumes purged	5.7	22	6.0	26	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aldrin				<0.025	1		µg/L	GE	0
		Aluminum, total recoverable	<58	<52	20	110	1	JE	µg/L	WA	2
■		Arsenic, total recoverable	22	160	14	670	1		µg/L	GE	2
		Barium, total recoverable	29	27	25	23	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Boron, total recoverable	49	97	45	43	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromoform	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<2.0	1		µg/L	GE	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<0.30	1	V	µg/L	GE	0
		Calcium, total recoverable	3,400	3,400	3,100	3,200	1	V	µg/L	GE	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	2,700	3,000	2,500	2,700	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Chloroethane	<10	<10	<10	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<2.0	1		µg/L	GE	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	GE	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<2.0	1		µg/L	GE	0
		Chromium, total recoverable	0.89	<7.0	1.1	0.98	1	JE	µg/L	WA	0
		p,p'-DDT				<0.099	1		µg/L	GE	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethylene	<5.0	<5.0					µg/L		
		trans-1,2-Dichloroethylene			<5.0	<2.0	1		µg/L	GE	0
		Dichloromethane	<3.8	<1.1	<2.2	<2.7	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<0.050	1	J	µg/L	GE	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Dieldrin				<0.050	1		µg/L	GE	0
		Endrin	<0.11	<0.12	<0.11	<0.050	1		µg/L	GE	0
		Ethylbenzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Fluoride	<41	<35	<38	67	1	JE	µg/L	GE	0
		Gross alpha	1.1E+00	1.1E-01	6.7E-01	1.2E+01	1		pCi/L	TM	1
		Heptachlor				<0.050	1		µg/L	GE	0
		Iron, total recoverable	1,500	16,000	930	31,000	1		µg/L	GE	2
		Lead, total recoverable	<47	5.6	<47	1.4	1	JE	µg/L	GE	0
		Lindane	<0.053	<0.058	<0.056	<0.025	1		µg/L	GE	0
		Lithium, total recoverable	2.9	2.1	2.1	2.1	1	JE	µg/L	WA	0
		Magnesium, total recoverable	700	700	660	670	1	V	µg/L	GE	0
		Manganese, total recoverable	23	24	20	21	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	0.061	1	JE	µg/L	GE	0
		Methoxychlor	<0.53	<0.58	<0.56	<0.50	1		µg/L	GE	0
		Nitrate-nitrite as nitrogen	47	210	100	380	1		µg/L	WA	0
		Nonvolatile beta	2.2E+00	3.2E+00	3.4E+00	3.6E+00	1		pCi/L	TM	0
●		pH	5.1	5.1	5.1	5.4	1	J1	pH	GE	0
		Phenols	<36	<24	<36	<5.0	1		µg/L	GE	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 11D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Potassium, total recoverable	1,100	1,000	1,000	1,100	1		µg/L	WA	
		Radium, total alpha-emitting	3.1E-01	4.0E-01	2.7E-01	4.0E-01	1		pCi/L	GP	0
		Selenium, total recoverable	<66	<66	<66	<5.0	1		µg/L	GE	0
		Silica, total recoverable	17,000	17,000	16,000	20,000	1		µg/L	GE	
		Silver, total recoverable	1.4	<1.2	0.86	<2.0	1		µg/L	GE	0
		Sodium, total recoverable	3,300	3,200	2,900	2,800	1	V	µg/L	GE	
		Specific conductance	58	56	54	49	1		µS/cm	WA	0
		Sulfate	16,000	16,000	12,000	13,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Total dissolved solids	46,000	62,000	60,000	57,000	1		µg/L	WA	
		Total inorganic carbon	7,600	9,700	9,700	9,900	1		µg/L	WA	1
		Total organic carbon	3,900	<460	250	320	1	JE	µg/L	GE	0
●		Total organic halogens	<120	13	<120	15	1	JE	µg/L	WA	0
		Total phosphates (as P)	82	80	12	170	1		µg/L	WA	
		Toxaphene	<1.1	<1.2	<1.1	<0.99	1		µg/L	GE	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.52	<0.025	1		µg/L	GE	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	5.1	11	4.6	16	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Tritium	1.5E+00	1.3E+00	1.5E+00	1.5E+00	1		pCi/mL	GP	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 12D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71598.3 E16176.3	33.210481 °N 81.763199 °W	93.1–73.1 ft msl	99.2 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	04/16/96	09/12/96	11/12/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	95.2	95.0	94.6	94.2	ft msl
pH	5.6	5.4	5.8	6.2	pH
Sp. conductance	100	58	66	54	µS/cm
Water temperature	18.0	20.0	22.0	18.0	°C
Alkalinity as CaCO ₃	12	19	10	13	mg/L
Turbidity	1	1	1	0	NTU
Volumes purged	2.3	7.2	5.4	7.5	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<150	<150	17	<150	1		µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	19	19	20	18	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<270	53	68	39	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.72	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	5,200	5,300	5,300	4,900	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	1,600	1,700	1,500	1,700	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.3	<7.0	4.2	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	<3.0	<3.4	<4.4	<3.1	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<71	<56	67	<71	1	V	µg/L	WA	0
		Gross alpha	7.8E-01	2.5E-01	8.0E-01	2.6E+00	1	V	pCi/L	TM	0
		Iron, total recoverable	59	31	<33	<20	1	V	µg/L	WA	0
		Lead, total recoverable	<15	7.0	6.1	13	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.051	<0.051	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<0.89	<2.7	<2.7	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	1,500	1,500	1,500	1,400	1		µg/L	WA	0
		Manganese, total recoverable	330	350	440	510	1		µg/L	WA	2
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.51	<0.51	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	<20	<20	4.0	10	1	JE	µg/L	WA	0
		Nonvolatile beta	2.9E+00	2.6E+00	2.8E+00	2.3E+00	1	J1	pCi/L	TM	0
		pH	6.2	6.2	6.1	6.0	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,500	1,600	1,900	1,900	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 12D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	<i>2.6E-01</i>	<i>3.0E-01</i>	<i>2.1E-01</i>	<i>3.1E-01</i>	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	5,700	5,900	6,300	5,800	2.1	V	µg/L	WA	
		Silver, total recoverable	0.84	<5.0	0.82	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	2,500	2,700	2,900	2,700	1	V	µg/L	WA	
		Specific conductance	64	63	67	63	1		µS/cm	WA	0
		Sulfate	6,100	6,100	4,800	4,900	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	45,000	62,000	41,000	38,000	1	JE	µg/L	WA	
		Total inorganic carbon	14,000	13,000	15,000	15,000	1		µg/L	WA	1
		Total organic carbon	630	<510	190	340	1	JE	µg/L	WA	0
		Total organic halogens	<120	<120	27	<120	1		µg/L	WA	0
		Total phosphates (as P)	52	65	63	79	1		µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.54	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	<i>5.1E-01</i>	<i>2.1E-01</i>	<i>3.9E-01</i>	<i>1.4E-01</i>	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 13D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70842.0 E15938.8	33.208422 °N 81.762354 °W	89.9–87.9 ft msl	94.9 ft msl	2" SS	S	Unconfined

SAMPLE DATE	04/09/96	09/12/96	11/22/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation		92.8	91.4	91.8	ft msl
pH		5.4	5.4	5.2	pH
Sp. conductance		96	100	100	µS/cm
Water temperature		18.0	25.0	22.0	°C
Alkalinity as CaCO ₃		11	2	10	mg/L
Turbidity		4	3	11	NTU
Volumes purged		110		28	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		150	52	1,500	1		µg/L	WA	2
		Arsenic, total recoverable		<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable		55	51	57	1		µg/L	WA	0
		Benzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable		370	470	450	1		µg/L	WA	0
		Bromodichloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)		<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable		<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable		7,500	6,200	6,100	1		µg/L	WA	0
		Carbon tetrachloride		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloride		11,000	10,000	11,000	2		µg/L	WA	0
		Chlorobenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane		<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)		<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether		<10	<10	<10	1		µg/L	WA	0
		Chloroform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)		<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable		<7.0	<0.74	7.1	1		µg/L	WA	0
		Dibromochloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane		4.0	<1.5	<4.4	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0					µg/L	WA	0
		1,2-Dichloropropane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10					µg/L	WA	0
		Ethylbenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride		<39	<48	<46	1	V	µg/L	WA	0
		Gross alpha		1.5E+00	7.4E-01	4.4E+00	1	V	pCi/L	TM	0
		Iron, total recoverable		<94	<41	1,200	1		µg/L	WA	2
		Lead, total recoverable		<47	5.9	<20	1	V	µg/L	WA	0
		Lindane		<0.050					µg/L	WA	0
		Lithium, total recoverable		<0.96	0.60	1.5	1	JE	µg/L	WA	0
		Magnesium, total recoverable		1,100	960	980	1		µg/L	WA	0
		Manganese, total recoverable		4.7	4.8	16	1		µg/L	WA	0
		Mercury, total recoverable		0.16	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50					µg/L	WA	0
●		Nitrate-nitrite as nitrogen		2,900	3,600	930	1	J	µg/L	WA	0
●		Nonvolatile beta		4.2E+00	2.1E+00	5.6E+00	1	V	pCi/L	TM	0
		pH		5.7	5.6	5.6	1	J	pH	WA	0
		Phenols		<36					µg/L	WA	0
		Potassium, total recoverable		1,200	1,200	1,200	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 13D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		<i>1.1E-01</i>					pCi/L		
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	13,000	14,000	17,000	17,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	0.50	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	12,000	13,000	13,000	13,000	1	V	µg/L	WA	
		Specific conductance	120	130	120	120	1		µS/cm	WA	0
		Sulfate	11,000	11,000	12,000	12,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	2.7E+04						pCi/L		
		Total dissolved solids	76,000	90,000	150,000	150,000	1	V	µg/L	WA	
		Total inorganic carbon	21,000						µg/L		
		Total organic carbon	1,600	390	420	420	1	JE	µg/L	WA	0
		Total organic halogens	<120	22	15	15	1	JE	µg/L	WA	0
		Total phosphates (as P)	24	23	14	14	1	JE	µg/L	WA	
		Toxaphene	<1.0						µg/L		
		2,4,5-TP (Silvex)	<0.51						µg/L		
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	2.3	2.8	1.4	1.4	1	JE	µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.8E+00	1.4E+00	1.2E+00	1.2E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 14D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70931.8 E15971.1	33.208673 °N 81.762443 °W	87.8–85.8 ft msl	92.8 ft msl	2" SS	S	Unconfined

SAMPLE DATE	04/09/96	09/12/96	11/22/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation			92.2	92.1	ft msl
pH	4.8	5.2	4.0		pH
Sp. conductance	98	120	120		µS/cm
Water temperature	19.0	25.0	23.0		°C
Alkalinity as CaCO ₃	3	2	0		mg/L
Turbidity	2	2	1		NTU
Volumes purged			16		well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	94	62	53	1	JE	µg/L	WA	2	
		Arsenic, total recoverable	<40	<40	<40	1		µg/L	WA	0	
		Barium, total recoverable	18	20	17	1		µg/L	WA	0	
		Benzene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Boron, total recoverable	840	1,300	1,100	1		µg/L	WA	0	
		Bromodichloromethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Bromoform	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Bromomethane (Methyl bromide)	<10	<10	<10	1		µg/L	WA	0	
		Cadmium, total recoverable	<4.7	<4.7	<4.7	1		µg/L	WA	0	
		Calcium, total recoverable	3,300	4,200	3,400	1		µg/L	WA	0	
		Carbon tetrachloride	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Chloride	12,000	11,000	12,000	2		µg/L	WA	0	
		Chlorobenzene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Chloroethane	<10	<10	<10	1		µg/L	WA	0	
		Chloroethene (Vinyl chloride)	<10	<10	<10	1		µg/L	WA	0	
		2-Chloroethyl vinyl ether	<10	<10	<10	1		µg/L	WA	0	
		Chloroform	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Chloromethane (Methyl chloride)	<10	<10	<10	1		µg/L	WA	0	
		Chromium, total recoverable	<7.0	<1.1	1.6	1	JE	µg/L	WA	0	
		Dibromochloromethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,1-Dichloroethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,2-Dichloroethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		trans-1,2-Dichloroethylene			<5.0	1		µg/L	WA	0	
		Dichloromethane	<5.0	<5.0	<0.94	1	V	µg/L	WA	0	
		2,4-Dichlorophenoxyacetic acid	<1.0					µg/L			
		1,2-Dichloropropane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Endrin	<0.10					µg/L			
		Ethylbenzene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Fluoride	<22	<29	<45	1	V	µg/L	WA	0	
		Gross alpha	-5.3E-01	9.5E-01	7.0E-01	1	UI	pCi/L	TM	0	
		Iron, total recoverable	<83	57	130	1		µg/L	WA	0	
		Lead, total recoverable	<47	7.4	<7.6	1	V	µg/L	WA	0	
		Lindane	<0.050					µg/L			
		Lithium, total recoverable	<1.8	1.6	1.4	1	JE	µg/L	WA	0	
		Magnesium, total recoverable	770	950	780	1		µg/L	WA	0	
		Manganese, total recoverable	27	22	25	1		µg/L	WA	1	
		Mercury, total recoverable	<0.70	<0.70	<0.70	1		µg/L	WA	0	
		Methoxychlor	<0.50					µg/L			
•		Nitrate-nitrite as nitrogen	5,800	7,700	6,800	10	J	µg/L	WA	1	
		Nonvolatile beta	2.3E+00	1.9E+00	2.7E+00	1	UIV	pCi/L	TM	0	
•		pH	5.2	5.4	5.2	1	J	pH	WA	0	
		Phenols	<36					µg/L			
		Potassium, total recoverable	930	1,200	1,100	1		µg/L	WA		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 14D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		<i>5.0E-02</i>					pCi/L		
		Selenium, total recoverable		<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable		11,000	13,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable		17,000	21,000	18,000	1	V	µg/L	WA	
		Specific conductance		130	150	130	1		µS/cm	WA	0
		Sulfate		14,000	9,800	9,800	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity		4.1E+04					pCi/L		
		Total dissolved solids		93,000	110,000	160,000	1	V	µg/L	WA	
		Total inorganic carbon		25,000					µg/L		
		Total organic carbon		<500	190	220	1	JE	µg/L	WA	0
		Total organic halogens		<120	38	25	1	JE	µg/L	WA	0
		Total phosphates (as P)		14	<70	17	1	JE	µg/L	WA	
		Toxaphene		<1.0					µg/L		
		2,4,5-TP (Silvex)		<0.51					µg/L		
		1,1,1-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene		6.3	12	10	1		µg/L	WA	2
		Trichlorofluoromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium		1.8E+00	1.5E+00	1.8E+00	1		pCi/mL	TM	0
		Xylenes		<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TNX 15D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71021.1 E16002.1	33.208921 °N 81.762535 °W	87.9–85.9 ft msl	93.1 ft msl	2" SS	S	Unconfined

SAMPLE DATE	04/09/96	09/11/96	10/07/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation			92.5	92.4	ft msl
pH	4.2	4.6	4.6	4.6	pH
Sp. conductance	100	140	160	160	µS/cm
Water temperature	19.0	25.0	22.0	22.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	2	1	4	4	NTU
Volumes purged		5.5	45	45	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		190	200	380	1		µg/L	WA	2
		Ammonia			<15	<17	1	V	µg/L	WA	0
		Arsenic, total recoverable		<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable		34	41	46	1		µg/L	WA	0
		Benzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		5-day BOD			<10,000	<10,000	1		µg/L	WA	0
		Boron, total recoverable		1,500	910	1,200	1		µg/L	WA	0
		Bromodichloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoforn		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)		<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable		<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable		2,500	2,600	2,800	1		µg/L	WA	0
		Carbon tetrachloride		1.0	<5.0	<5.0	1		µg/L	WA	0
		Chemical oxygen demand			22,000	19,000	1	JE	µg/L	WA	0
		Chloride		8,400	9,200	11,000	2		µg/L	WA	0
		Chlorobenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane		<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)		<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether		<10	<10	<10	1		µg/L	WA	0
		Chloroform		<5.0	1.3	1.2	1	JE	µg/L	WA	0
		Chloromethane (Methyl chloride)		<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable		<7.0	<7.0	<7.0	1		µg/L	WA	0
		Dibromochloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane		1.1	<1.8	<3.4	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0					µg/L		
		1,2-Dichloropropane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10					µg/L		
		Ethylbenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride		<57	74	<75	1	V	µg/L	WA	0
		Gross alpha		9.5E-01	9.0E-02	5.2E-01	1	UI	pCi/L	TM	0
		Iron, total recoverable		<98	75	130	1		µg/L	WA	0
		Lead, total recoverable		<47	4.7	<12	1	V	µg/L	WA	0
		Lindane		<0.050					µg/L		
		Lithium, total recoverable		3.3	3.2	3.4	1		µg/L	WA	0
		Magnesium, total recoverable		710	720	770	1		µg/L	WA	0
		Manganese, total recoverable		83	90	100	1		µg/L	WA	2
		Mercury, total recoverable		<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50					µg/L		
●	■	Nitrate as nitrogen			13,000	12,000	25	JV	µg/L	WA	2
●	■	Nitrate-nitrite as nitrogen		10,000	12,000	11,000	25	J	µg/L	WA	2
●		Nitrite as nitrogen			<50	<50	1	J	µg/L	WA	0
●		Nonvolatile beta		1.5E+00	3.4E+00	2.9E+00	1	UIV	pCi/L	TM	0
●		pH		4.8	5.2	4.8	1	J	pH	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 15D (cont.)

H	SI	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Phenols		<36					µg/L		
		Potassium, total recoverable		960	980	1,100	1		µg/L	WA	
		Radium, total alpha-emitting		2.7E-01					pCi/L		
		Selenium, total recoverable		<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable		11,000	12,000	14,000	2.1	V	µg/L	WA	
		Silver, total recoverable		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable		20,000	21,000	22,000	1	V	µg/L	WA	
		Specific conductance		150	170	160	1		µS/cm	WA	0
		Sulfate		9,000	8,800	10,000	2		µg/L	WA	0
		Sulfide			<10,000	<6,500	1	V	µg/L	WA	0
		1,1,2,2-Tetrachloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity		5.1E+04					pCi/L		
		Total dissolved solids		120,000	130,000	180,000	1	V	µg/L	WA	
		Total inorganic carbon		24,000					µg/L		
●		Total organic carbon		<310	700	1,100	1		µg/L	WA	0
		Total organic halogens		31	33	41	2	JE	µg/L	WA	0
		Total phosphates (as P)		17	11	54	1	JE	µg/L	WA	
		Toxaphene		<1.0					µg/L		
		2,4,5-TP (Silvex)		<0.51					µg/L		
		1,1,1-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene		25	28	29	1		µg/L	WA	2
		Trichlorofluoromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium		2.0E+00	2.2E+00	2.5E+00	1		pCi/mL	TM	0
		Xylenes		<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TNX 16D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71111.3 E16012.2	33.209137 °N 81.762684 °W	88.1–86.1 ft msl	93.4 ft msl	2" SS	S	Unconfined

SAMPLE DATE 04/09/96 09/11/96 10/07/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation		92.7	92.0	91.9	ft msl
pH		4.8	4.4	4.6	pH
Sp. conductance		99	180	180	µS/cm
Water temperature		19.0	22.0	22.0	°C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		1	1	1	NTU
Volumes purged		59	6.2	32	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		280	260	220	1		µg/L	WA	2
		Ammonia			<15	<16	1	V	µg/L	WA	0
		Arsenic, total recoverable		<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable		49	66	57	1		µg/L	WA	0
		Benzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		5-day BOD			1,000	<10,000	1		µg/L	WA	0
		Boron, total recoverable		1,000	1,100	980	1		µg/L	WA	0
		Bromodichloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)		<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable		<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable		2,700	2,700	2,100	1		µg/L	WA	0
		Carbon tetrachloride		6.2	1.9	1.8	1	JE	µg/L	WA	0
		Chemical oxygen demand			5,200	15,000	1	JE	µg/L	WA	0
		Chloride		6,800	9,300	11,000	2		µg/L	WA	0
		Chlorobenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane		<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)		<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether		<10	<10	<10	1		µg/L	WA	0
		Chloroform		<5.0	1.3	1.3	1	JE	µg/L	WA	0
		Chloromethane (Methyl chloride)		<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable		<7.0	18	<7.0	1		µg/L	WA	0
		Dibromochloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane		1.1	<5.7	<1.3	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0					µg/L		
		1,2-Dichloropropane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10					µg/L		
		Ethylbenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride		<52	<48	<50	1	V	µg/L	WA	0
		Gross alpha		1.6E+00	6.0E-01	2.2E+00	1	J1	pCi/L	TM	0
		Iron, total recoverable		<12	<74	10	1	JE	µg/L	WA	0
		Lead, total recoverable		<47	<47	<6.9	1	V	µg/L	WA	0
		Lindane		<0.050					µg/L		
		Lithium, total recoverable		3.1	3.6	3.0	1		µg/L	WA	0
		Magnesium, total recoverable		960	970	770	1		µg/L	WA	0
		Manganese, total recoverable		96	98	69	1		µg/L	WA	2
		Mercury, total recoverable		<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50					µg/L		
●	■	Nitrate as nitrogen			16,000	15,000	50		µg/L	WA	2
●	■	Nitrate-nitrite as nitrogen		14,000	16,000	13,000	50	J	µg/L	WA	2
●		Nitrite as nitrogen			<50	<50	1	J	µg/L	WA	0
●		Nonvolatile beta		2.4E+00	1.4E+00	4.3E+00	1		pCi/L	TM	0
●		pH		4.6	5.0	4.8	1	J	pH	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 16D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Phenols		<36					µg/L		
		Potassium, total recoverable		990	1,200	740	1		µg/L	WA	
		Radium, total alpha-emitting		3.1E-01					pCi/L		
		Selenium, total recoverable		<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable		11,000	15,000	13,000	2.1	V	µg/L	WA	
		Silver, total recoverable		<5.0	<5.0	0.68	1	JE	µg/L	WA	0
		Sodium, total recoverable		22,000	32,000	27,000	1	V	µg/L	WA	
		Specific conductance		170	200	190	1		µS/cm	WA	0
		Sulfate		8,900	9,400	12,000	2		µg/L	WA	0
●		Sulfide			<10,000	4,900	1	JE	µg/L	WA	0
		1,1,2,2-Tetrachloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity		4.2E+04					pCi/L		
		Total dissolved solids		130,000	140,000	130,000	1		µg/L	WA	
		Total inorganic carbon		23,000					µg/L		
		Total organic carbon		890	280	1,000	1		µg/L	WA	0
●		Total organic halogens		70	57	19	1	JE	µg/L	WA	0
		Total phosphates (as P)		19	16	15	1	JE	µg/L	WA	
		Toxaphene		<1.0					µg/L		
		2,4,5-TP (Silvex)		<0.51					µg/L		
		1,1,1-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene		71	51	51	1		µg/L	WA	2
		Trichlorofluoromethane		<5.0	1.1	<5.0	1		µg/L	WA	0
		Tritium		2.8E+00	3.1E+00	3.6E+00	1		pCi/mL	TM	0
		Xylenes		<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 17D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71583.8 E16047.4	33.210238 °N 81.763510 °W	91.7–89.7 ft msl	96.8 ft msl	2" SS	P	Unconfined

SAMPLE DATE	04/09/96	09/13/96	11/25/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	93.7	93.3	93.0		ft msl
pH	5.6	5.6	5.4		pH
Sp. conductance	60	100	70		µS/cm
Water temperature	22.0	27.0	17.2		°C
Alkalinity as CaCO ₃	30	17	21		mg/L
Turbidity	3	3	3		NTU
Volumes purged	18	41	24		well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	45	87	57	1	JE	µg/L	WA	2	
		Arsenic, total recoverable	<40	<40	<40	1		µg/L	WA	0	
		Barium, total recoverable	21	24	22	1		µg/L	WA	0	
		Benzene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Boron, total recoverable	<270	79	<270	1		µg/L	WA	0	
		Bromodichloromethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Bromoform	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Bromomethane (Methyl bromide)	<10	<10	<10	1		µg/L	WA	0	
		Cadmium, total recoverable	<4.7	<4.7	<4.7	1		µg/L	WA	0	
		Calcium, total recoverable	4,500	4,700	4,200	1		µg/L	WA	0	
		Carbon tetrachloride	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Chloride	1,600	1,500	1,700	1		µg/L	WA	0	
		Chlorobenzene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Chloroethane	<10	<10	<10	1		µg/L	WA	0	
		Chloroethene (Vinyl chloride)	<10	<10	<10	1		µg/L	WA	0	
		2-Chloroethyl vinyl ether	<10	<10	<10	1		µg/L	WA	0	
		Chloroform	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Chloromethane (Methyl chloride)	<10	<10	<10	1		µg/L	WA	0	
		Chromium, total recoverable	<7.0	<7.0	<7.0	1		µg/L	WA	0	
		Dibromochloromethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,1-Dichloroethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,2-Dichloroethane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		trans-1,2-Dichloroethylene			<5.0	1		µg/L	WA	0	
		Dichloromethane	1.2	<5.0	<4.0	1	V	µg/L	WA	0	
		2,4-Dichlorophenoxyacetic acid	<1.0					µg/L			
		1,2-Dichloropropane	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Endrin	<0.10					µg/L			
		Ethylbenzene	<5.0	<5.0	<5.0	1		µg/L	WA	0	
		Fluoride	<44	<35	<45	1	V	µg/L	WA	0	
		Gross alpha	9.2E-01	2.6E+00	3.6E-01	1	UI	pCi/L	TM	0	
		Iron, total recoverable	1,100	3,600	3,000	1		µg/L	WA	2	
		Lead, total recoverable	<47	<47	<7.2	1	V	µg/L	WA	0	
		Lindane	<0.050					µg/L			
		Lithium, total recoverable	<0.46	<2.7	0.28	1	JE	µg/L	WA	0	
		Magnesium, total recoverable	1,300	1,300	1,200	1		µg/L	WA	0	
		Manganese, total recoverable	38	96	75	1		µg/L	WA	2	
		Mercury, total recoverable	<0.70	<0.70	<0.70	1		µg/L	WA	0	
		Methoxychlor	<0.50					µg/L			
•		Nitrate-nitrite as nitrogen	<20	5.0	<20	1	J	µg/L	WA	0	
		Nonvolatile beta	2.0E+00	2.5E+00	1.9E+00	1	J1	pCi/L	TM	0	
•		pH	6.0	6.1	6.1	1	J	pH	WA	0	
		Phenols	<36					µg/L			
		Potassium, total recoverable	2,100	2,600	2,500	1		µg/L	WA		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 17D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		2.8E-01					pCi/L		
		Selenium, total recoverable	<66		<66	<66	1		µg/L	WA	0
		Silica, total recoverable	5,800	7,600	6,000	6,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	0.68	0.68	1	JE	µg/L	WA	0
		Sodium, total recoverable	2,600	3,300	3,000	3,000	1	V	µg/L	WA	
		Specific conductance	61	1,200	57	57	1		µS/cm	WA	0
		Sulfate	8,300	6,100	5,600	5,600	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	4.1E+04						pCi/L		
		Total dissolved solids	44,000	54,000	50,000	50,000	1		µg/L	WA	
		Total inorganic carbon	16,000						µg/L		
		Total organic carbon	600	1,200	440	440	1	JE	µg/L	WA	0
●		Total organic halogens	<120	<120	8.1	8.1	1	JE	µg/L	WA	0
		Total phosphates (as P)	96	180	170	170	1		µg/L	WA	
		Toxaphene	<1.0						µg/L		
		2,4,5-TP (Silvex)	<0.51						µg/L		
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.9E-01	4.2E-01	1.6E-01	1.6E-01	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 18D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70748.2 E15898.0	33.208148 °N 81.762279 °W	86.9–84.9 ft msl	92.1 ft msl	2" SS	P	Unconfined

SAMPLE DATE	04/09/96	09/13/96	11/25/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation			91.7	91.4	ft msl
pH	5.4	6.0	5.4		pH
Sp. conductance	102	100	140		µS/cm
Water temperature	20.0	25.0	18.0		°C
Alkalinity as CaCO ₃	20	5	7		mg/L
Turbidity	4	2	1		NTU
Volumes purged		34	15		well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	190	42	30	1	JE		µg/L	WA	1
		Arsenic, total recoverable	<40	<40	<40	1			µg/L	WA	0
		Barium, total recoverable	46	58	53	1			µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Boron, total recoverable	470	720	530	1			µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	1			µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	1			µg/L	WA	0
		Calcium, total recoverable	5,700	7,200	6,400	1			µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloride	15,000	12,000	14,000	2			µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloroethane	<10	<10	<10	1			µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	1			µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	1			µg/L	WA	0
		Chloroform	1.0	0.91	<5.0	1			µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	1			µg/L	WA	0
		Chromium, total recoverable	<7.0	<2.1	<7.0	1			µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0	1			µg/L	WA	0
		Dichloromethane	1.2	<5.0	<4.2	1	V		µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0			1			µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Endrin	<0.10			1			µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Fluoride	<38	<34	<41	1	V		µg/L	WA	0
		Gross alpha	7.1E-01	6.7E-01	1.2E+00	1	UI		pCi/L	TM	0
		Iron, total recoverable	<99	<41	31	1	JE		µg/L	WA	0
		Lead, total recoverable	<47	7.9	<47	1			µg/L	WA	0
		Lindane	<0.050			1			µg/L	WA	0
		Lithium, total recoverable	<0.92	0.50	0.70	1	JE		µg/L	WA	0
		Magnesium, total recoverable	1,000	1,300	1,100	1			µg/L	WA	0
		Manganese, total recoverable	4.6	3.7	3.4	1	JE		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	1			µg/L	WA	0
		Methoxychlor	<0.50			1			µg/L	WA	0
●		Nitrate-nitrite as nitrogen	3,900	5,200	6,100	25	J		µg/L	WA	1
		Nonvolatile beta	-5.0E-02	1.9E+00	2.9E+00	1			pCi/L	TM	0
●		pH	5.6	5.5	5.7	1	J		pH	WA	0
		Phenols	<36			1			µg/L	WA	0
		Potassium, total recoverable	1,100	1,400	1,300	1			µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 18D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		<i>9.0E-02</i>					pCi/L		
		Selenium, total recoverable		<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable		10,000	14,000	11,000	2.1	V	µg/L	WA	
		Silver, total recoverable		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable		13,000	17,000	15,000	1	V	µg/L	WA	
		Specific conductance		130	1,200	140	1		µS/cm	WA	0
		Sulfate		9,700	8,200	7,800	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity		7.0E+04					pCi/L		
		Total dissolved solids		68,000	92,000	110,000	1		µg/L	WA	
		Total inorganic carbon		29,000					µg/L		
		Total organic carbon		600	1,200	250	1	JE	µg/L	WA	0
●		Total organic halogens		14	<120	10	1	JE	µg/L	WA	0
		Total phosphates (as P)		42	29	39	1	JE	µg/L	WA	
		Toxaphene		<1.0					µg/L		
		2,4,5-TP (Silvex)		<0.51					µg/L		
		1,1,1-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene		1.9	<i>6.3</i>	<i>12</i>	1		µg/L	WA	2
		Trichlorofluoromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium		1.8E+00	1.6E+00	1.6E+00	1		pCi/mL	TM	0
		Xylenes		<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 19D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70626.7 E15848.4	33.207798 °N 81.762173 °W	86.9–84.9 ft msl	92.7 ft msl	2" SS	P	Unconfined

SAMPLE DATE	04/09/96	09/13/96	11/25/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	92.7	91.6	91.4		ft msl
pH	4.4	5.2	5.4		pH
Sp. conductance	200	160	120		µS/cm
Water temperature	20.0	19.0	18.6		°C
Alkalinity as CaCO ₃	22	4	6		mg/L
Turbidity	9	2	1		NTU
Volumes purged	14	22	9.5		well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	56	92	670	1			µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	1			µg/L	WA	0
		Barium, total recoverable	62	88	88	1			µg/L	WA	0
		Benzene	1.4	<5.0	<5.0	1			µg/L	WA	0
		Boron, total recoverable	560	720	670	1			µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	1			µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	1			µg/L	WA	0
		Calcium, total recoverable	6,900	7,000	6,200	1			µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloride	17,000	16,000	19,000	2			µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloroethane	<10	<10	<10	1			µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	1			µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	1			µg/L	WA	0
		Chloroform	1.4	1.2	<5.0	1			µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	1			µg/L	WA	0
■		Chromium, total recoverable	0.79	52	1,100	1			µg/L	WA	2
		Dibromochloromethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0	1			µg/L	WA	0
		Dichloromethane	1.1	<5.0	<2.9	1		V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0						µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Endrin	<0.10						µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Fluoride	<34	<47	<35	1		V	µg/L	WA	0
		Gross alpha	9.0E-01	6.6E-01	8.2E+00	1			pCi/L	TM	1
		Iron, total recoverable	<67	190	3,500	1			µg/L	WA	2
		Lead, total recoverable	<47	4.8	<7.0	1		V	µg/L	WA	0
		Lindane	<0.050						µg/L	WA	0
		Lithium, total recoverable	<0.88	0.74	1.1	1		JE	µg/L	WA	0
		Magnesium, total recoverable	1,100	1,500	1,300	1			µg/L	WA	0
		Manganese, total recoverable	6.7	9.5	23	1			µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	1			µg/L	WA	0
		Methoxychlor	<0.50						µg/L	WA	0
●		Nitrate-nitrite as nitrogen	3,900	4,200	3,900	10		J	µg/L	WA	0
		Nonvolatile beta	2.0E+00	8.0E-01	1.4E+00	1		UI	pCi/L	TM	0
●		pH	5.6	5.5	5.6	1		J	pH	WA	0
		Phenols	<36						µg/L	WA	0
		Potassium, total recoverable	1,200	1,600	1,500	1			µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 19D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		<i>1.1E-01</i>					pCi/L		
		Selenium, total recoverable		<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable		11,000	14,000	14,000	2.1	V	µg/L	WA	
		Silver, total recoverable		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable		13,000	17,000	15,000	1	V	µg/L	WA	
		Specific conductance		140	1,700	140	1		µS/cm	WA	0
		Sulfate		9,000	7,600	7,800	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity		5.7E+04					pCi/L		
		Total dissolved solids		110,000	97,000	110,000	1		µg/L	WA	
		Total inorganic carbon		28,000					µg/L		
		Total organic carbon		<400	<810	440	1	JE	µg/L	WA	0
●		Total organic halogens		<120	13	50	2	JE	µg/L	WA	0
		Total phosphates (as P)		42	86	130	1		µg/L	WA	
		Toxaphene		<1.0					µg/L		
		2,4,5-TP (Silvex)		<0.51					µg/L		
		1,1,1-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene		1.1	1.1	<5.0	1		µg/L	WA	0
		Trichlorofluoromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium		1.7E+00	2.6E+00	1.3E+00	1		pCi/mL	TM	0
		Xylenes		<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 20D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70579.0 E15826.1	33.207656 °N 81.762139 °W	88.2–86.2 ft msl	93.5 ft msl	2" SS	P	Unconfined

SAMPLE DATE	04/09/96	09/13/96	11/25/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	93.4	91.7	91.5		ft msl
pH	5.2	6.2	5.6		pH
Sp. conductance	100	28	100		µS/cm
Water temperature	20.0	19.3	18.2		°C
Alkalinity as CaCO ₃	20	4	16		mg/L
Turbidity	9	3	0		NTU
Volumes purged	30	42	14		well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	140	31	<150	1			µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	1			µg/L	WA	0
		Barium, total recoverable	39	42	34	1			µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Boron, total recoverable	370	420	410	1			µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	1			µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	1			µg/L	WA	0
		Calcium, total recoverable	6,700	7,000	5,500	1			µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloride	7,600	15,000	12,000	2			µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloroethane	<10	<10	<10	1			µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	1			µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	1			µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	1			µg/L	WA	0
		Chromium, total recoverable	0.78	<0.70	<7.0	1			µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Dichloromethane	<3.2	<5.0	<2.9	1		V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0						µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	1			µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Endrin	<0.10						µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	1			µg/L	WA	0
		Fluoride	<45	<40	<50	1		V	µg/L	WA	0
		Gross alpha	5.3E-01	8.6E-01	-2.5E-01	1		UI	pCi/L	TM	0
		Iron, total recoverable	140	<17	7.9	1		JE	µg/L	WA	0
		Lead, total recoverable	<47	5.9	<9.1	1		V	µg/L	WA	0
		Lindane	<0.050						µg/L	WA	0
		Lithium, total recoverable	<1.4	0.39	0.45	1		JE	µg/L	WA	0
		Magnesium, total recoverable	980	1,200	880	1			µg/L	WA	0
		Manganese, total recoverable	13	47	49	1			µg/L	WA	1
		Mercury, total recoverable	<0.70	<0.70	<0.70	1			µg/L	WA	0
		Methoxychlor	<0.50						µg/L	WA	0
•		Nitrate-nitrite as nitrogen	1,900	1,100	1,400	5		J	µg/L	WA	0
•		Nonvolatile beta	2.5E+00	4.1E+00	3.8E-01	1		UI	pCi/L	TM	0
		pH	5.8	5.7	5.9	1		J	pH	WA	0
		Phenols	<36						µg/L	WA	0
		Potassium, total recoverable	1,100	1,400	1,200	1			µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

• = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 20D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		3.0E-02					pCi/L		
		Selenium, total recoverable	<66		<66	<66	1		µg/L	WA	0
		Silica, total recoverable	13,000		15,000	13,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	9,100		14,000	11,000	1	V	µg/L	WA	
		Specific conductance	100		130	110	1		µS/cm	WA	0
		Sulfate	15,000		9,500	11,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Total activity	5.1E+04						pCi/L		
		Total dissolved solids	69,000		91,000	79,000	1		µg/L	WA	
		Total inorganic carbon	21,000						µg/L		
		Total organic carbon	<550		<910	350	1	JE	µg/L	WA	0
		Total organic halogens	<120		<120	22	1	JE	µg/L	WA	0
		Total phosphates (as P)	11		66	41	1	JE	µg/L	WA	
		Toxaphene	<1.0						µg/L		
		2,4,5-TP (Silvex)	<0.51						µg/L		
		1,1,1-Trichloroethane	<5.0		<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	2.8		2.5	1.7	1	JE	µg/L	WA	0
		Trichlorofluoromethane	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.1E+00		2.0E+00	1.8E+00	1		pCi/mL	TM	0
		Xylenes	<5.0		<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 21D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N70446.8 E15833.5	33.207376 °N 81.761863 °W	88.9—86.9 ft msl	94.4 ft msl	2" SS	P	Unconfined
SAMPLE DATE		04/09/96	09/13/96	11/25/96		
FIELD DATA						
<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>Unit</u>	
Water elevation		93.0	91.9	91.7	ft msl	
pH		5.4	6.8	5.8	pH	
Sp. conductance		108	22	100	µS/cm	
Water temperature		22.0	21.0	18.0	°C	
Alkalinity as CaCO ₃		46	24	20	mg/L	
Turbidity		85	27	22	NTU	
Volumes purged		36	24	10	well volumes	
Sampling code						

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		5,100	43	1,500	1		µg/L	WA	2
		Arsenic, total recoverable		<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable		39	46	30	1		µg/L	WA	0
		Benzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable		120	120	74	1	JE	µg/L	WA	0
		Bromodichloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)		<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable		<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable		1,600	3,400	1,400	1		µg/L	WA	0
		Carbon tetrachloride		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloride		6,800	5,500	11,000	2		µg/L	WA	0
		Chlorobenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane		<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)		<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether		<10	<10	<10	1		µg/L	WA	0
		Chloroform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)		<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable		4.7	<7.0	1.4	1	JE	µg/L	WA	0
		Dibromochloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane		<1.4	<5.0	<1.3	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0					µg/L		
		1,2-Dichloropropane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10					µg/L		
		Ethylbenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride		<40	<43	<43	1	V	µg/L	WA	0
		Gross alpha		2.2E+00	1.8E+00	4.4E-01	1	UI	pCi/L	TM	0
		Iron, total recoverable		1,500	190	590	1		µg/L	WA	2
		Lead, total recoverable		<47	<47	<47	1		µg/L	WA	0
		Lindane		<0.050					µg/L		
		Lithium, total recoverable		<3.5	0.81	0.98	1	JE	µg/L	WA	0
		Magnesium, total recoverable		420	980	310	1		µg/L	WA	
		Manganese, total recoverable		75	50	68	1		µg/L	WA	2
		Mercury, total recoverable		<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50					µg/L		
●		Nitrate-nitrite as nitrogen		45	6.0	<20	1	J	µg/L	WA	0
		Nonvolatile beta		2.1E+00	2.9E+00	6.8E-01	1	UI	pCi/L	TM	0
●		pH		5.8	5.8	5.9	1	J	pH	WA	0
		Phenols		<36					µg/L		
		Potassium, total recoverable		870	990	870	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 21D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		5.0E-02					pCi/L		
		Selenium, total recoverable		<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable		24,000	14,000	17,000	2.1	V	µg/L	WA	
		Silver, total recoverable		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable		15,000	6,500	18,000	1	V	µg/L	WA	
		Specific conductance		94	110	110	1		µS/cm	WA	0
		Sulfate		14,000	5,400	11,000	2		µg/L	WA	0
		1,1,2,2-Tetrachloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity		2.2E+04					pCi/L		
		Total dissolved solids		80,000	51,000	120,000	1		µg/L	WA	
		Total inorganic carbon		30,000					µg/L		
		Total organic carbon		1,900	1,300	2,400	1		µg/L	WA	0
●		Total organic halogens		<120	<120	54	2	JE	µg/L	WA	1
		Total phosphates (as P)		120	120	76	1		µg/L	WA	
		Toxaphene		<1.0					µg/L		
		2,4,5-TP (Silvex)		<0.51					µg/L		
		1,1,1-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene		2.7	<5.0	<5.0	1		µg/L	WA	0
		Trichlorofluoromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium		1.7E+00	2.0E+00	1.4E+00	1		pCi/mL	TM	0
		Xylenes		<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 22D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70184.7 E15757.7	33.206673 °N 81.761552 °W	87.8–85.8 ft msl	93 ft msl	2" SS	P	Unconfined

SAMPLE DATE	04/09/96	09/13/96	12/02/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	90.3	90.7	90.1		ft msl
pH	5.2	5.6	5.4		pH
Sp. conductance	50	16	56		µS/cm
Water temperature	20.0	21.0	20.0		°C
Alkalinity as CaCO ₃	20	7	20		mg/L
Turbidity	20	1	0		NTU
Volumes purged	27	26	21		well volumes
Sampling code					

ANALYTICAL DATA

H	SI	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable		55	3,100	<65	1	V	µg/L	WA	0
		Arsenic, total recoverable		<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable		37	74	41	1		µg/L	WA	0
		Benzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable		69	180	<88	1	V	µg/L	WA	0
		Bromodichloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)		<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable		<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable		3,100	1,600	3,100	1		µg/L	WA	0
		Carbon tetrachloride		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloride		3,800	8,000	6,500	1		µg/L	WA	0
		Chlorobenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane		<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)		<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether		<10	<10	<10	1		µg/L	WA	0
		Chloroform		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)		<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable		<7.0	<3.3	<7.0	1		µg/L	WA	0
		Dibromochloromethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane		<4.7	<5.0	<1.0	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.0					µg/L		
		1,2-Dichloropropane		<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10					µg/L		
		Ethylbenzene		<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride		<42	<43	<49	1	V	µg/L	WA	0
		Gross alpha		6.3E-01	8.5E-01	2.0E-01	1	UI	pCi/L	TM	0
		Iron, total recoverable		<62	980	<120	1	V	µg/L	WA	0
		Lead, total recoverable		<47	12	<47	1		µg/L	WA	0
		Lindane		<0.050					µg/L		
		Lithium, total recoverable		<1.5	1.7	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable		830	380	880	1	V	µg/L	WA	0
		Manganese, total recoverable		45	69	46	1		µg/L	WA	1
		Mercury, total recoverable		<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50					µg/L		
		Nitrate-nitrite as nitrogen		17	12	850	1		µg/L	WA	0
		Nonvolatile beta		1.4E+00	1.8E+00	7.6E-01	1	UI	pCi/L	TM	0
		pH		5.8	5.8	5.8	1	J	pH	WA	0
		Phenols		<36					µg/L		
		Potassium, total recoverable		700	1,100	880	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TNX 22D (cont.)

H	SI	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting		8.0E-02					pCi/L		
		Selenium, total recoverable	<66		<66	<66	1		µg/L	WA	0
		Silica, total recoverable	12,000	22,000	12,000	12,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<0.96	<0.96	1	V	µg/L	WA	0
		Sodium, total recoverable	4,200	20,000	5,600	5,600	1	V	µg/L	WA	
		Specific conductance	50	64	55	55	1		µS/cm	WA	0
		Sulfate	6,400	11,000	5,800	5,800	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	1.1E+04						pCi/L		
		Total dissolved solids	34,000	110,000	45,000	45,000	1	JE	µg/L	WA	
		Total inorganic carbon	16,000						µg/L		
		Total organic carbon	<820	3,100	740	740	1	JE	µg/L	WA	0
		Total organic halogens	<120	14	6.7	6.7	1	JE	µg/L	WA	0
		Total phosphates (as P)	17	73	<67	<67	1		µg/L	WA	0
		Toxaphene	<1.0						µg/L		
		2,4,5-TP (Silvex)	<0.51						µg/L		
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.6E+00	1.6E+00	2.0E+00	2.0E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.
 ● = exceeded holding time for fourth quarter 1996.
 ■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 23D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71414.5 E16927.0	33.211301 °N 81.760868 °W	104.8–84.8 ft msl	155.1 ft msl	2" PVC	V	Unconfined
SAMPLE DATE		03/28/96	04/10/96	08/29/96	12/02/96	
FIELD DATA						
Parameter	1Q	2Q	3Q	4Q		Unit
Water elevation	100.6	100.4	99.2	97.6		ft msl
pH	6.0	6.0	5.2	5.8		pH
Sp. conductance	82	80	60	46		µS/cm
Water temperature	20.0	27.0	22.0	25.0		°C
Alkalinity as CaCO ₃	25	18	16	22		mg/L
Turbidity	7	2	3	1		NTU
Volumes purged	4.6	3.9	8.5	4.8		well volumes
Sampling code						

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	400	660	110	<97	1	V	µg/L	WA	0
		Arsenic, total recoverable	<40	<5.0	5.2	<40	1		µg/L	WA	0
		Barium, total recoverable	12	13	16	11	1		µg/L	WA	0
		Benzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	47	23	30	<40	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<2.0	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	0.10	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	2,300	3,000	2,600	2,100	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Chloride	3,300	3,000	3,400	2,900	1		µg/L	WA	0
		Chlorobenzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<2.0	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<2.0	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<2.0	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	0.72	3.8	2.6	0.94	1	JE	µg/L	WA	0
		Dibromochloromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene		<2.0					µg/L		
		Dichloromethane	<6.7	7.6	<4.5	<3.3	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0		<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.10		<0.10	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<65	<59	<30	<43	1	V	µg/L	WA	0
		Gross alpha	5.0E-01	0.0E+00	4.7E-01	9.6E-01	1	J1	pCi/L	TM	0
		Iron, total recoverable	250	620	92	<55	1	V	µg/L	WA	0
		Lead, total recoverable	<47	<5.0	9.5	<47	1		µg/L	WA	0
		Lindane	<0.050		<0.050	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	2.5	2.8	1.7	0.60	1	JE	µg/L	WA	0
		Magnesium, total recoverable	490	540	680	540	1	V	µg/L	WA	0
		Manganese, total recoverable	92	110	130	92	1		µg/L	WA	2
		Mercury, total recoverable	<0.70	<0.022	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.50		<0.50	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	1,100	1,000	1,200	670	1		µg/L	WA	0
		Nonvolatile beta	3.0E+00	2.5E+00	2.8E-01	1.2E+00	1	UI	pCi/L	TM	0
		pH	6.3	6.4	5.8	6.0	1	J	pH	WA	0
		Phenols	<36		<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,000	1,100	980	900	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 23D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	4.3E-01		3.9E-01	2.7E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<5.0	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	17,000	19,000	11,000	9,500	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<2.0	<1.9	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	14,000	15,000	7,100	5,000	1	V	µg/L	WA	
		Specific conductance	100	91	63	51	1		µS/cm	WA	0
		Sulfate	7,100	9,800	3,900	5,100	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	1.2E+04	-1.7E+03					pCi/L		
		Total dissolved solids	7,100	90,000	50,000	36,000	1	JE	µg/L	WA	
		Total inorganic carbon	16,000		17,000	10,000	1		µg/L	WA	1
		Total organic carbon	620	970	140	110	1	JE	µg/L	WA	0
		Total organic halogens	<120	3.1	<120	8.6	1	JE	µg/L	WA	0
		Total phosphates (as P)	50	160	28	13	1	JE	µg/L	WA	
		Toxaphene	<1.0		<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52		<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<2.0	1.1	<5.0	1		µg/L	WA	0
		Tritium	1.6E+00	1.7E+00	2.1E+00	2.6E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TNX 24D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71536.9 E17534.6	33.212564 °N 81.759508 °W	114.8–99.8 ft msl	142.9 ft msl	2" PVC	V	Unconfined

SAMPLE DATE	03/28/96	04/10/96	08/30/96	12/02/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	109.2	109.2	108.5	107.9	ft msl
pH	5.4	5.2	4.8	5.6	pH
Sp. conductance	90	96	140	86	µS/cm
Water temperature	20.0	26.0	23.0	24.0	°C
Alkalinity as CaCO ₃	20	11	15	12	mg/L
Turbidity	3	5	13	1	NTU
Volumes purged	6.5	5.8	0.70		well volumes
Sampling code		X			

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	40	42	1,500	290	1	V	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	4.4	<40	1		µg/L	WA	0
		Barium, total recoverable	18	17	13	12	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	72	<270	41	<33	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	7,300	6,800	6,800	5,600	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloride	7,600	7,000	6,100	6,300	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	2.2	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<7.0	27	8.7	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane	<8.3	<5.0	<4.6	<1.9	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid		<1.1	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin		<0.10	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<49	<68	<44	<80	1	V	µg/L	WA	0
		Gross alpha	1.8E+01	1.4E+00	4.1E-01	8.7E-01	1	J1	pCi/L	TM	0
		Iron, total recoverable	70	<99	2,900	590	1	V	µg/L	WA	2
		Lead, total recoverable	<47	<47	8.0	<5.8	1	V	µg/L	WA	0
		Lindane		<0.050	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	1.7	<1.6	1.1	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	850	800	850	670	1	V	µg/L	WA	0
		Manganese, total recoverable	37	46	16	12	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.090	<0.70	1		µg/L	WA	0
		Methoxychlor		<0.50	<0.56	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	1,100	1,100	1,200	1,100	2		µg/L	WA	0
		Nonvolatile beta	1.3E+01	2.3E+00	3.4E+00	1.3E+00	1	UI	pCi/L	TM	0
●		pH	5.6	5.6	5.5	5.5	1	J	pH	WA	0
		Phenols	<36		<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,400	1,500	1,600	1,600	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 24D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.7E+00		4.4E-01	3.5E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	11,000	11,000	15,000	10,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	0.56	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	9,400	9,800	8,400	8,300	1	V	µg/L	WA	
		Specific conductance	110	110	89	96	1		µS/cm	WA	0
		Sulfate	11,000	20,000	9,300	14,000	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	9.7E+03	2.3E+04					pCi/L		
		Total dissolved solids	6,900	68,000	74,000	61,000	1		µg/L	WA	
		Total inorganic carbon	27,000		31,000	30,000	1		µg/L	WA	2
		Total organic carbon	330	<500	360	210	1	JE	µg/L	WA	0
		Total organic halogens	<120	<120	13	6.9	1	JE	µg/L	WA	0
		Total phosphates (as P)	31	37	440	170	1		µg/L	WA	
		Toxaphene		<1.0	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)		<0.53	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	1.8E+00	1.4E+00	9.0E-01	1.8E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 26D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70424.4 E16251.0	33.208009 °N 81.760721 °W	90.1–87.8 ft msl	100.8 ft msl	2" SS	P	Unconfined

SAMPLE DATE	03/26/96	04/10/96	08/29/96	12/03/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	96.1	94.9	93.1	93.1	ft msl
pH	5.4	6.0	5.4	6.2	pH
Sp. conductance	130	200	120	160	µS/cm
Water temperature	17.0	21.0	27.0	14.0	°C
Alkalinity as CaCO ₃	24	34	31	35	mg/L
Turbidity	228	75	245	18	NTU
Volumes purged	0.74	0.86	0.0	0.0	well volumes
Sampling code	X	X	X	X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	6,800	5,600	18,000	3,900	1	V	µg/L	WA	2
		Arsenic, total recoverable	<40	<40	4.2	<40	1		µg/L	WA	0
		Barium, total recoverable	85	94	140	110	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	130	130	210	<210	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	3,200	3,500	5,600	6,700	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloride	18,000	13,000	8,600	9,900	1	V	µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	12	24	29	9.4	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<7.5	7.1	<4.4	<5.0	1		µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0		<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.10		<0.14	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<72	73	<39	<40	1		µg/L	WA	0
		Gross alpha	4.9E+00	3.9E+00	6.5E+00	9.5E+00	1		pCi/L	TM	1
		Iron, total recoverable	2,900	20,000	10,000	9,800	1	V	µg/L	WA	2
		Lead, total recoverable	6.2	<47	16	<12	1	V	µg/L	WA	0
		Lindane	<0.051		<0.070	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	3.4	3.2	7.8	0.91	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,300	1,300	1,900	2,000	1	V	µg/L	WA	0
		Manganese, total recoverable	140	150	160	210	1		µg/L	WA	2
		Mercury, total recoverable	<0.70	0.10	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.51		<0.70	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	3,000	1,700	2,700	3,500	10		µg/L	WA	0
		Nonvolatile beta	9.1E+00	4.7E+00	6.7E+00	8.8E+00	1		pCi/L	TM	0
		pH	5.9	6.0	6.0	6.2	1	J	pH	WA	0
		Phenols	<36		<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,100	1,000	1,500	1,600	1		µg/L	WA	0

Notes: Results in bold *italic* exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in *italics* is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TNX 26D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	5.8E-01		3.9E-01	6.6E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	28,000	26,000	54,000	19,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	21,000	19,000	16,000	21,000	1	V	µg/L	WA	
		Specific conductance	160	130	130	150	1		µS/cm	WA	0
		Sulfate	11,000	7,200	6,400	6,800	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total activity	1.4E+04	-2.9E+04					pCi/L		
●		Total dissolved solids	23,000	110,000	140,000	130,000	1	J	µg/L	WA	
		Total inorganic carbon	11,000		22,000	25,000	1		µg/L	WA	2
		Total organic carbon	3,200	5,000	2,900	3,100	1		µg/L	WA	0
		Total organic halogens	19	24	<120	18	1	JE	µg/L	WA	0
		Total phosphates (as P)	66	130	99	50	1	JE	µg/L	WA	
		Toxaphene	<1.0		<1.4	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51		<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	12	11	11	5.4	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	3.4E+00	2.7E+00	2.9E+00	2.3E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL TNX 27D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 71180.1 E 16609.1	°N °W	101.0–81.0 ft msl	110.6 ft msl	2"PVC	V	Unconfined

SAMPLE DATE 12/06/96

FIELD DATA

<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>Unit</u>
Water elevation				95.8	ft msl
pH				4.4	pH
Sp. conductance				100	µS/cm
Water temperature				25.0	°C
Alkalinity as CaCO ₃				6	mg/L
Turbidity				1	NTU
Volumes purged					well volumes
Sampling code					

ANALYTICAL DATA

<u>H</u>	<u>ST</u>	<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
■		Carbon tetrachloride				9.9	5		µg/L	WA	2
		Chloroform				<1.0	1		µg/L	WA	0
		Gross alpha				1.9E+00	1	J1	pCi/L	TM	0
		Lead, total recoverable				11	1	JE	µg/L	WA	0
		Mercury, total recoverable				<0.70	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen				7,300	10		µg/L	WA	1
		Tetrachloroethylene				<1.0	1		µg/L	WA	0
		1,1,1-Trichloroethane				<1.0	1		µg/L	WA	0
■		Trichloroethylene				75	2		µg/L	WA	2

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TRW 1

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N71162.8 E16947.0	33.210778 °N 81.760326 °W	106.4—81.4 ft msl	156.3 ft msl	6" PVC		Unconfined

<u>SAMPLE DATE</u>	
	09/04/96

FIELD DATA

<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>Unit</u>
Water elevation					ft msl
pH			6.0		pH
Sp. conductance			78		µS/cm
Water temperature			21.0		°C
Alkalinity as CaCO ₃			3		mg/L
Turbidity			1		NTU
Volumes purged					well volumes
Sampling code			C		

ANALYTICAL DATA

<u>H</u>	<u>SI</u>	<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
		Arsenic, total recoverable			<40				µg/L		
		Barium, total recoverable			16				µg/L		
		Benzene			<5.0				µg/L		
		Bromodichloromethane			<5.0				µg/L		
		Bromoform			<5.0				µg/L		
		Bromomethane (Methyl bromide)			<10				µg/L		
		Cadmium, total recoverable			<4.7				µg/L		
		Carbon tetrachloride			25				µg/L		
		Chlorobenzene			<5.0				µg/L		
		Chloroethane			<10				µg/L		
		Chloroethene (Vinyl chloride)			<10				µg/L		
		2-Chloroethyl vinyl ether			<10				µg/L		
		Chloroform			1.3				µg/L		
		Chloromethane (Methyl chloride)			<10				µg/L		
		Chromium, total recoverable			1.3				µg/L		
		Dibromochloromethane			<5.0				µg/L		
		1,1-Dichloroethane			<5.0				µg/L		
		1,2-Dichloroethane			<5.0				µg/L		
		1,1-Dichloroethylene			<5.0				µg/L		
		trans-1,2-Dichloroethylene			1.2				µg/L		
		Dichloromethane			<6.3				µg/L		
		1,2-Dichloropropane			<5.0				µg/L		
		cis-1,3-Dichloropropene			<5.0				µg/L		
		trans-1,3-Dichloropropene			<5.0				µg/L		
		Endrin			<0.10				µg/L		
		Ethylbenzene			<5.0				µg/L		
		Gross alpha			1.4E+00				pCi/L		
		Lead, total recoverable			<47				µg/L		
		Lindane			<0.050				µg/L		
		Mercury, total recoverable			<0.70				µg/L		
		Nitrate-nitrite as nitrogen			4,200				µg/L		
		Nonvolatile beta			2.6E+00				pCi/L		
		pH			5.2				pH		
		Radium, total alpha-emitting			1.5E-01				pCi/L		
		Selenium, total recoverable			<66				µg/L		
		Silver, total recoverable			1.8				µg/L		
		Specific conductance			67				µS/cm		
		1,1,2,2-Tetrachloroethane			<5.0				µg/L		
		Tetrachloroethylene			1.3				µg/L		
		Toluene			<5.0				µg/L		
		Total activity			1.6E+04				pCi/L		
		Total dissolved solids			63,000				µg/L		
		Total organic carbon			<1,000				µg/L		
		1,1,1-Trichloroethane			<5.0				µg/L		
		1,1,2-Trichloroethane			<5.0				µg/L		
		Trichloroethylene			340				µg/L		
		Trichlorofluoromethane			<5.0				µg/L		
		Tritium			2.1E+00				pCi/mL		
		Xylenes			<5.0				µg/L		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TRW 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N71259.6 E16803.8	33.210758 °N 81.760891 °W	112.2-77.2 ft msl	154.3 ft msl	6" PVC		Unconfined

<u>SAMPLE DATE</u>	
09/04/96	

FIELD DATA

<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>Unit</u>
Water elevation					ft msl
pH			5.6		pH
Sp. conductance			100		µS/cm
Water temperature			21.0		°C
Alkalinity as CaCO ₃			0		mg/L
Turbidity			1		NTU
Volumes purged					well volumes
Sampling code			C		

ANALYTICAL DATA

<u>H</u>	<u>ST</u>	<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
		Arsenic, total recoverable			<40				µg/L		
		Barium, total recoverable			47				µg/L		
		Benzene			<5.0				µg/L		
		Bromodichloromethane			<5.0				µg/L		
		Bromoform			<5.0				µg/L		
		Bromomethane (Methyl bromide)			<10				µg/L		
		Cadmium, total recoverable			<4.7				µg/L		
		Carbon tetrachloride			35				µg/L		
		Chlorobenzene			<5.0				µg/L		
		Chloroethane			<10				µg/L		
		Chloroethene (Vinyl chloride)			<10				µg/L		
		2-Chloroethyl vinyl ether			<10				µg/L		
		Chloroform			2.0				µg/L		
		Chloromethane (Methyl chloride)			<10				µg/L		
		Dibromochloromethane			<5.0				µg/L		
		1,1-Dichloroethane			<5.0				µg/L		
		1,2-Dichloroethane			<5.0				µg/L		
		1,1-Dichloroethylene			<5.0				µg/L		
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane			<5.8				µg/L		
		1,2-Dichloropropane			<5.0				µg/L		
		cis-1,3-Dichloropropene			<5.0				µg/L		
		trans-1,3-Dichloropropene			<5.0				µg/L		
		Endrin			<0.10				µg/L		
		Ethylbenzene			<5.0				µg/L		
		Gross alpha			4.6E+00				pCi/L		
		Lead, total recoverable			<47				µg/L		
		Lindane			<0.050				µg/L		
		Mercury, total recoverable			0.68				µg/L		
		Nitrate-nitrite as nitrogen			9,400				µg/L		
		Nonvolatile beta			7.1E+00				pCi/L		
		pH			4.8				pH		
		Radium, total alpha-emitting			1.0E+00				pCi/L		
		Selenium, total recoverable			<66				µg/L		
		Silver, total recoverable			<5.0				µg/L		
		Specific conductance			110				µS/cm		
		1,1,2,2-Tetrachloroethane			<5.0				µg/L		
		Tetrachloroethylene			1.4				µg/L		
		Toluene			<5.0				µg/L		
		Total activity			-1.7E+04				pCi/L		
		Total dissolved solids			97,000				µg/L		
		Total organic carbon			380				µg/L		
		1,1,1-Trichloroethane			<5.0				µg/L		
		1,1,2-Trichloroethane			<5.0				µg/L		
		Trichloroethylene			650				µg/L		
		Trichlorofluoromethane			<5.0				µg/L		
		Tritium			1.8E+00				pCi/mL		
		Xylenes			<5.0				µg/L		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL TRW 3

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N71334.4 E17004.7	33.211251 °N 81.760508 °W	112.3–77.4 ft msl	154.5 ft msl	6" PVC		Unconfined

SAMPLE DATE 09/04/96

FIELD DATA

<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>Unit</u>
Water elevation					ft msl
pH			5.8		pH
Sp. conductance			62		µS/cm
Water temperature			26.0		°C
Alkalinity as CaCO ₃			5		mg/L
Turbidity			2		NTU
Volumes purged					well volumes
Sampling code			C		

ANALYTICAL DATA

<u>H</u>	<u>ST</u>	<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
		Arsenic, total recoverable			<40				µg/L		
		Barium, total recoverable			27				µg/L		
		Benzene			<5.0				µg/L		
		Bromodichloromethane			<5.0				µg/L		
		Bromoform			<5.0				µg/L		
		Bromomethane (Methyl bromide)			<10				µg/L		
		Cadmium, total recoverable			<4.7				µg/L		
		Carbon tetrachloride			<5.0				µg/L		
		Chlorobenzene			<5.0				µg/L		
		Chloroethane			<10				µg/L		
		Chloroethene (Vinyl chloride)			<10				µg/L		
		2-Chloroethyl vinyl ether			<10				µg/L		
		Chloroform			<5.0				µg/L		
		Chloromethane (Methyl chloride)			<10				µg/L		
		Dibromochloromethane			<5.0				µg/L		
		1,1-Dichloroethane			<5.0				µg/L		
		1,2-Dichloroethane			<5.0				µg/L		
		1,1-Dichloroethylene			<5.0				µg/L		
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane			<12				µg/L		
		1,2-Dichloropropane			<5.0				µg/L		
		cis-1,3-Dichloropropene			<5.0				µg/L		
		trans-1,3-Dichloropropene			<5.0				µg/L		
		Endrin			<0.10				µg/L		
		Ethylbenzene			<5.0				µg/L		
		Gross alpha			9.9E-01				pCi/L		
		Lead, total recoverable			<7.3				µg/L		
		Lindane			<0.052				µg/L		
		Mercury, total recoverable			<0.70				µg/L		
		Nitrate-nitrite as nitrogen			1,900				µg/L		
		Nonvolatile beta			2.1E+00				pCi/L		
		pH			5.7				pH		
		Radium, total alpha-emitting			8.6E-01				pCi/L		
		Selenium, total recoverable			<66				µg/L		
		Silver, total recoverable			0.53				µg/L		
		Specific conductance			60				µS/cm		
		1,1,2,2-Tetrachloroethane			<5.0				µg/L		
		Tetrachloroethylene			<5.0				µg/L		
		Toluene			<5.0				µg/L		
		Total activity			4.0E+04				pCi/L		
		Total dissolved solids			51,000				µg/L		
		Total organic carbon			180				µg/L		
		1,1,1-Trichloroethane			<5.0				µg/L		
		1,1,2-Trichloroethane			<5.0				µg/L		
		Trichloroethylene			160				µg/L		
		Trichlorofluoromethane			<5.0				µg/L		
		Tritium			1.8E+00				pCi/mL		
		Xylenes			<5.0				µg/L		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL TRW 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N71454.2 E17144.6	33.211745 °N 81.760373 °W	111.9–81.9 ft msl	150.9 ft msl	6" PVC		Unconfined

SAMPLE DATE 09/04/96

FIELD DATA

<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>Unit</u>
Water elevation					ft msl
pH			4.8		pH
Sp. conductance			94		µS/cm
Water temperature			26.0		°C
Alkalinity as CaCO ₃			5		mg/L
Turbidity			1		NTU
Volumes purged					well volumes
Sampling code			C		

ANALYTICAL DATA

H	ST	<u>Parameter</u>	<u>1Q</u>	<u>2Q</u>	<u>3Q</u>	<u>4Q</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
		Arsenic, total recoverable			<40				µg/L		
		Barium, total recoverable			56				µg/L		
		Benzene			<5.0				µg/L		
		Bromodichloromethane			<5.0				µg/L		
		Bromoform			<5.0				µg/L		
		Bromomethane (Methyl bromide)			<10				µg/L		
		Cadmium, total recoverable			<4.7				µg/L		
		Carbon tetrachloride			7.7				µg/L		
		Chlorobenzene			<5.0				µg/L		
		Chloroethane			<10				µg/L		
		Chloroethene (Vinyl chloride)			<10				µg/L		
		2-Chloroethyl vinyl ether			<10				µg/L		
		Chloroform			<5.0				µg/L		
		Chloromethane (Methyl chloride)			<10				µg/L		
		Dibromochloromethane			<5.0				µg/L		
		1,1-Dichloroethane			<5.0				µg/L		
		1,2-Dichloroethane			<5.0				µg/L		
		1,1-Dichloroethylene			<5.0				µg/L		
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane			<12				µg/L		
		1,2-Dichloropropane			<5.0				µg/L		
		cis-1,3-Dichloropropene			<5.0				µg/L		
		trans-1,3-Dichloropropene			<5.0				µg/L		
		Endrin			<0.10				µg/L		
		Ethylbenzene			<5.0				µg/L		
		Gross alpha			5.6E+00				pCi/L		
		Lead, total recoverable			<19				µg/L		
		Lindane			<0.052				µg/L		
		Mercury, total recoverable			<0.70				µg/L		
		Nitrate-nitrite as nitrogen			7,300				µg/L		
		Nonvolatile beta			6.2E+00				pCi/L		
		pH			5.1				pH		
		Radium, total alpha-emitting			5.0E+00				pCi/L		
		Selenium, total recoverable			<66				µg/L		
		Silver, total recoverable			0.53				µg/L		
		Specific conductance			96				µS/cm		
		1,1,2,2-Tetrachloroethane			<5.0				µg/L		
		Tetrachloroethylene			<5.0				µg/L		
		Toluene			<5.0				µg/L		
		Total activity			6.7E+03				pCi/L		
		Total dissolved solids			96,000				µg/L		
		Total organic carbon			380				µg/L		
		1,1,1-Trichloroethane			<5.0				µg/L		
		1,1,2-Trichloroethane			<5.0				µg/L		
		Trichloroethylene			960				µg/L		
		Trichlorofluoromethane			<5.0				µg/L		
		Tritium			3.2E+00				pCi/mL		
		Xylenes			<5.0				µg/L		

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 1A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71105.4 E16883.0	33.210546 °N 81.760383 °W	53.6-43.6 ft msl	156 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/04/96	05/23/96	09/04/96	12/04/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	99.3	98.9	71.1	96.2	ft msl
pH	5.2	5.0	5.4	5.2	pH
Sp. conductance	70	66	72	60	µS/cm
Water temperature	24.0	28.0	19.0	27.0	°C
Alkalinity as CaCO ₃	17	5	12	5	mg/L
Turbidity	1	1	0	2	NTU
Volumes purged	3.3	3.4	3.8	3.3	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<150	<54	<20	<150	1		µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<5.0	<40	1	J	µg/L	WA	0
		Barium, total recoverable	10	9.1	10	7.0	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	1,700	970	770	640	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	0.49	0.57	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	1,200	910	1,000	690	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloride	5,500	5,400	4,700	4,900	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<2.0	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<1.4	1.5	<1.0	1	V	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<5.9	<1.4	<3.4	<5.0	1		µg/L	WA	0
		Dichloromethane	<1.0	<1.0	<0.050	<1.0	1		µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.050	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Fluoride	<30	<24	<25	<28	1	V	µg/L	WA	0
■		Gross alpha	1.1E+00	7.6E-01	-1.9E-01	1.8E+01	1		pCi/L	TM	2
		Iron, total recoverable	25	<35	14	<43	1	V	µg/L	WA	0
		Lead, total recoverable	<7.1	<47	6.0	16	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.053	<0.025	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<1.4	<0.84	0.29	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	250	200	200	150	1		µg/L	WA	0
		Manganese, total recoverable	8.5	6.6	6.6	5.0	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	0.12	<0.20	1		µg/L	GE	0
		Methoxychlor	<0.53	<0.53	<0.50	<0.52	1		µg/L	WA	0
		Nickel, total recoverable			<10				µg/L		
		Nitrate-nitrite as nitrogen	2,600	2,400	2,600	2,500	5		µg/L	WA	0
		Nonvolatile beta	3.1E+00	8.1E-01	4.1E-01	2.1E+00	1	J1	pCi/L	TM	0
●		pH	5.7	5.8	5.7	5.5	1	J	pH	WA	0
		Phenols	<36	<36	<5.0	<36	1		µg/L	WA	0
		Potassium, total recoverable	620	490	560	480	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 1A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	8.2E-01	<i>2.4E-01</i>	4.0E-01	<i>1.1E-01</i>	1	UI	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<5.0	<66	1		µg/L	WA	0
		Silica, total recoverable	11,000	8,400	8,500	8,100	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	1.2	<0.68	1	V	µg/L	WA	0
		Sodium, total recoverable	17,000	11,000	13,000	11,000	1	V	µg/L	WA	
		Specific conductance	77	75	82	69	1		µS/cm	WA	0
		Sulfate	8,300	8,200	7,900	8,100	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	52,000	55,000	77,000	52,000	1		µg/L	WA	
		Total inorganic carbon	17,000	14,000	13,000	13,000	1		µg/L	WA	1
		Total organic carbon	440	<670	230	140	1	JE	µg/L	WA	0
		Total organic halogens	<120	<120	<10	24	1	JE	µg/L	WA	0
		Total phosphates (as P)	17	33	23	19	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.0	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.025	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<2.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<2.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	1.2	<5.0	1		µg/L	WA	0
		Tritium	2.1E+00	2.2E+00	2.4E+00	2.3E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 1B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71105.0 E16872.9	33.210529 °N 81.760409 °W	74.6–64.6 ft msl	155.9 ft msl	4" PVC	S	Semiconfined

SAMPLE DATE	03/04/96	05/23/96	08/30/96	11/21/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	104.1	102.0	101.2	99.6	ft msl
pH	5.2	4.4	5.2	5.6	pH
Sp. conductance	34	34	44	32	µS/cm
Water temperature	22.0	26.0	18.0	28.0	°C
Alkalinity as CaCO ₃	23	3	3	4	mg/L
Turbidity	19	9	6	1	NTU
Volumes purged	3.7	3.5	3.9	5.8	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	24	63	<150	<150	1		µg/L	WA	0
		Arsenic, total recoverable	<40	<40	6.9	<40	1	J	µg/L	WA	0
		Barium, total recoverable	28	25	24	22	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	47	<270	<270	38	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	2,700	2,300	2,400	2,200	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	1,700	2,000	1,600	2,000	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	1.3	1.4	1.6	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0					µg/L		
		trans-1,2-Dichloroethylene			<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	<3.5	<2.2	<2.5	<4.5	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<64	<56	62	<49	1	V	µg/L	WA	0
		Gross alpha	1.7E+00	1.1E+00	9.6E-01	1.9E+00	1	JV1	pCi/L	TM	0
		Iron, total recoverable	2,000	1,700	1,200	720	1	V	µg/L	WA	2
		Lead, total recoverable	<13	<7.0	<47	9.6	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.054	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	12	8.4	7.3	4.2	1		µg/L	WA	0
		Magnesium, total recoverable	710	620	560	550	1		µg/L	WA	0
		Manganese, total recoverable	21	18	16	16	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.54	<0.56	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	<20	<20	<20	7.0	1	JE	µg/L	WA	0
		Nonvolatile beta	2.4E+00	2.5E+00	2.1E+00	1.7E+00	1	UI	pCi/L	TM	0
●		pH	5.8	5.7	5.5	5.3	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	2,000	1,600	1,500	1,400	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL XSB 1B (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	<i>1.6E-01</i>	4.3E-01	3.3E-01	4.7E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	29,000	24,000	21,000	23,000	2.1	V	µg/L	WA	0
		Silver, total recoverable	<5.0	0.89	0.55	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	2,000	1,500	1,800	1,300	1	V	µg/L	WA	0
		Specific conductance	35	37	38	33	1		µS/cm	WA	0
		Sulfate	6,600	6,700	6,400	6,600	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	51,000	43,000	60,000	40,000	1	JE	µg/L	WA	0
		Total inorganic carbon	7,900	7,600	8,600	9,500	1		µg/L	WA	1
		Total organic carbon	810	<580	<1,000	240	1	JE	µg/L	WA	0
		Total organic halogens	<120	29	<120	23	1	JE	µg/L	WA	0
		Total phosphates (as P)	27	98	26	19	1	JE	µg/L	WA	0
		Toxaphene	<1.1	<1.1	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.51	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	<i>5.0E-02</i>	<i>-8.0E-02</i>	<i>-1.1E-01</i>	<i>-1.6E-01</i>	1	UI	pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL XSB 1D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71104.8 E16893.5	33.210562 °N 81.760354 °W	107.9–87.9 ft msl	156 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/08/96 05/24/96 09/04/96 10/31/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	99.6	99.2	98.3	98.1	ft msl
pH	4.4	4.8	5.6	4.7	pH
Sp. conductance	52	76	88	72	µS/cm
Water temperature	20.0	28.0	21.0	28.0	°C
Alkalinity as CaCO ₃	1	0	2	0	mg/L
Turbidity	1	2	1	0	NTU
Volumes purged	2.2	3.9	5.8	18	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aldrin		<0.025					µg/L		
		Aluminum, total recoverable	41	<55	<81	110	1	JE	µg/L	WA	2
		Arsenic, total recoverable	<40	<5.0	<40	<40	1	J	µg/L	WA	0
		Barium, total recoverable	20	27	34	48	1	V	µg/L	WA	0
		Benzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	740	620	870	98	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<2.0	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.59	<2.0	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	1,500	1,900	2,300	3,100	1		µg/L	WA	
■		Carbon tetrachloride	3.1	6.0	4.9	17	2		µg/L	WA	2
		Chloride	3,800	4,300	4,500	3,900	1		µg/L	WA	0
		Chlorobenzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<2.0	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<2.0	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<2.0	<5.0	<2.0	2		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<2.0	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	0.81	<7.0	<1.3	1	V	µg/L	WA	0
		p,p'-DDT		<0.10					µg/L		
		Dibromochloromethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0				µg/L		
		trans-1,2-Dichloroethylene		<2.0		<5.0	1		µg/L	WA	0
		Dichloromethane	1.4	<1.7	<3.7	<5.0	1		µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<0.050	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Dieldrin		<0.050					µg/L		
		Endrin	<0.11	<0.050	<0.10	<0.10	1	J	µg/L	WA	0
		Ethylbenzene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<40	<35	<38	<58	1	V	µg/L	WA	0
■		Gross alpha	4.6E+00	2.8E+00	2.2E+00	2.6E+01	1		pCi/L	TM	2
		Heptachlor		<0.050					µg/L		
		Iron, total recoverable	12	190	<23	<36	1	V	µg/L	WA	0
		Lead, total recoverable	<47	5.0	8.9	18	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.025	<0.051	<0.052	1	J	µg/L	WA	0
		Lithium, total recoverable	<1.3	<1.3	0.92	0.76	1	JE	µg/L	WA	0
		Magnesium, total recoverable	550	680	860	1,300	1		µg/L	WA	
		Manganese, total recoverable	21	25	30	39	1		µg/L	WA	1
■		Mercury, total recoverable	<0.70	0.092	0.77	9.3	1		µg/L	WA	2
		Methoxychlor	<0.53	<0.50	<0.51	<0.52	1	J	µg/L	WA	0
●	■	Nitrate-nitrite as nitrogen	3,700	5,800	6,700	68,000	500	J	µg/L	WA	2
●		Nonvolatile beta	3.1E+00	2.5E+00	3.4E+00	5.0E+00	1		pCi/L	TM	0
		pH	5.1	5.2	5.1	4.9	1	J	pH	WA	0
		Phenols	<36	<5.0	<36	<36	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 1D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Potassium, total recoverable	850	1,100	1,300	1,600	1		µg/L	WA	
		Radium, total alpha-emitting	9.3E-01	1.5E+00	9.9E-01	2.2E+00	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<1.7	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	10,000	10,000	9,900	10,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<2.0	<5.0	<0.90	1	V	µg/L	WA	0
		Sodium, total recoverable	7,900	11,000	12,000	7,600	1	V	µg/L	WA	
		Specific conductance	67	84	96	91	1		µS/cm	WA	0
		Sulfate	5,200	5,800	4,100	2,000	1		µg/L	WA	0
		2,4,5-T		<0.050					µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	1.4	2.8	2.8	3.4	2		µg/L	WA	1
		Toluene	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	33,000	61,000	77,000	65,000	1		µg/L	WA	
		Total inorganic carbon	16,000	15,000	16,000	16,000	1		µg/L	WA	1
		Total organic carbon	230	960	<1,000	340	1	JE	µg/L	WA	0
		Total organic halogens	26	34	39	110	1	JE	µg/L	WA	2
		Total phosphates (as P)	27	190	56	48	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.0	<1.0	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.025	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<2.0	<5.0	<2.0	2		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<2.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	35	29	24	290	20		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<2.0	1.3	<5.0	1		µg/L	WA	0
		Tritium	2.3E+00	2.4E+00	1.9E+00	3.7E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71086.0 E16823.1	33.210406 °N 81.760503 °W	104.0–84.0 ft msl	154.8 ft msl	4" PVC	S	Unconfined

SAMPLE DATE 03/26/96 06/06/96 09/04/96 12/04/96

FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	99.7	98.7	98.1	96.3	ft msl
pH	6.6	4.2	6.2	5.6	pH
Sp. conductance	36	400	140	100	µS/cm
Water temperature	21.0		22.0	24.0	°C
Alkalinity as CaCO ₃	84		16	0	mg/L
Turbidity	6	2	1	1	NTU
Volumes purged	0.78	0.83	3.3	3.4	well volumes
Sampling code	X			X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	390	270	<33	390	1		µg/L	WA	2
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	61	84	44	64	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	160	<160	310	67	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.66	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	30,000	21,000	12,000	17,000	1		µg/L	WA	
■		Carbon tetrachloride	18	23	20	16	1		µg/L	WA	2
		Chloride	3,900	3,900	3,700	3,900	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	1.8	<5.0	1.1	1	JE	µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	2.2	2.3	<7.0	0.86	1	JE	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene				<5.0	1		µg/L	WA	0
		Dichloromethane	6.6	<3.2	<2.4	<5.0	1		µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
●		Endrin	<0.11	<0.10	<0.10	<0.14	1	J	µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<57	83	<32	<56	1	V	µg/L	WA	0
		Gross alpha	3.6E+00	5.2E+00	2.4E+00	4.3E+00	1		pCi/L	TM	0
		Iron, total recoverable	250	180	<21	140	1		µg/L	WA	0
		Lead, total recoverable	17	<7.6	5.9	17	1	JE	µg/L	WA	0
●		Lindane	<0.055	<0.052	<0.050	<0.068	1	J	µg/L	WA	0
		Lithium, total recoverable	6.5	<5.6	3.1	4.9	1		µg/L	WA	0
		Magnesium, total recoverable	1,600	2,400	1,200	2,000	1		µg/L	WA	
		Manganese, total recoverable	200	95	15	150	1		µg/L	WA	2
		Mercury, total recoverable	0.15	<0.70	<0.70	0.080	1	JE	µg/L	WA	0
●		Methoxychlor	<0.55	<0.52	<0.50	<0.68	1	J	µg/L	WA	0
●	■	Nitrate-nitrite as nitrogen	10,000	19,000	8,500	14,000	25	J	µg/L	WA	2
●		Nonvolatile beta	3.9E+00	8.7E+00	4.1E+00	4.2E+00	1	V	pCi/L	TM	0
		pH	6.9	6.2	6.0	6.3	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,800	2,100	1,500	2,000	1		µg/L	WA	

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 2D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	2.1E+00	4.6E+00	1.2E+00	1.8E+00	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	8,300	9,200	9,500	10,000	2.1	V	µg/L	WA	0
		Silver, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	9,700	17,000	9,600	16,000	1	V	µg/L	WA	0
		Specific conductance	290	260	140	200	1		µS/cm	WA	0
		Sulfate	2,600	2,000	2,200	2,000	1		µg/L	WA	0
		2,4,5-T	<0.52						µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	2.4	3.5	2.2	2.3	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	160,000	190,000	120,000	220,000	1	V	µg/L	WA	0
		Total inorganic carbon	20,000	13,000	16,000	16,000	1		µg/L	WA	1
		Total organic carbon	330	760	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	130	130	92	96	1	JE	µg/L	WA	1
		Total phosphates (as P)	41	29	11	78	1		µg/L	WA	0
●		Toxaphene	<1.1	<1.0	<1.0	<1.4	1	J	µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.52	<0.51	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	130	140	80	110	5		µg/L	WA	2
		Trichlorofluoromethane	<5.0		<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.8E+00	3.2E+00	2.5E+00	2.5E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL XSB 3A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70915.3 E16901.3	33.210156 °N 81.759966 °W	103.2–87.4 ft msl	157 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/25/96	05/23/96	08/30/96	11/21/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	100.7	100.0	99.2	98.1	ft msl
pH	5.4	5.0	5.4	5.2	pH
Sp. conductance	99	106	100	100	µS/cm
Water temperature	23.0	25.0	18.0	27.0	°C
Alkalinity as CaCO ₃	4	4	5	5	mg/L
Turbidity	1	2	1	1	NTU
Volumes purged	26	4.8	10	14	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	46	<110	21	26	1	JE	µg/L	WA	1
		Arsenic, total recoverable	<40	<40	<40	4.7	1	JE3	µg/L	WA	0
		Barium, total recoverable	16	29	12	19	1	V	µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	320	<440	470	530	1		µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	0.69	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	4,900	7,400	4,800	5,900	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	7,600	8,800	8,700	5,800	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<2.1	<7.0	<0.96	1	V	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0	<5.0	1		µg/L	WA	0
		Dichloromethane	3.8	<1.5	<2.1	<1.2	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.1	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.11	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<41	<42	<41	<35	1	V	µg/L	WA	0
		Gross alpha	1.1E+00	3.6E+00	9.9E-01	1.1E+01	1		pCi/L	TM	1
		Iron, total recoverable	25	<36	26	<30	1	V	µg/L	WA	0
		Lead, total recoverable	6.6	5.9	11	20	1	JE	µg/L	WA	0
		Lindane	<0.056	<0.053	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	0.88	<0.92	0.46	0.61	1	JE	µg/L	WA	0
		Magnesium, total recoverable	1,100	1,500	900	1,200	1		µg/L	WA	0
		Manganese, total recoverable	33	40	15	32	1		µg/L	WA	1
		Mercury, total recoverable	0.60	1.3	<0.14	7.6	1		µg/L	WA	2
		Methoxychlor	<0.56	<0.53	<0.56	<0.52	1		µg/L	WA	0
●	■	Nitrate-nitrite as nitrogen	5,300	11,000	3,600	51,000	500	J	µg/L	WA	2
		Nonvolatile beta	3.2E+00	2.1E+00	3.1E+00	2.4E+00	1	J1	pCi/L	TM	0
●		pH	5.7	5.8	5.6	5.4	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,100	1,400	920	1,300	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL XSB 3A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.6E+00	1.3E+00	8.7E-01	9.8E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	9,200	10,000	9,200	9,300	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	0.81	<5.0	<1.2	1	V	µg/L	WA	0
		Sodium, total recoverable	10,000	17,000	11,000	13,000	1	V	µg/L	WA	
		Specific conductance	110	160	100	130	1		µS/cm	WA	0
		Sulfate	8,700	10,000	6,600	4,600	1		µg/L	WA	0
		2,4,5-T	<0.52						µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	57,000	90,000	72,000	85,000	1		µg/L	WA	
		Total inorganic carbon	14,000	17,000	16,000	22,000	1		µg/L	WA	2
		Total organic carbon	230	<410	190	<1,000	1		µg/L	WA	0
		Total organic halogens	17	23	17	84	2	JE	µg/L	WA	1
		Total phosphates (as P)	56	49	50	55	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.52	<0.51	<0.52	<0.53	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	15	24	14	390	20		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.2E+00	1.7E+00	1.4E+00	1.6E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70997.9 E16826.2	33.210216 °N 81.760324 °W	103.9–83.9 ft msl	154.9 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/08/96	05/30/96	08/30/96	12/04/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	99.3	98.7	98.0	96.4	ft msl
pH	4.8	5.2	5.4	5.0	pH
Sp. conductance	100	100	100	98	µS/cm
Water temperature	22.0	27.0	19.0	27.0	°C
Alkalinity as CaCO ₃	27	2	2	2	mg/L
Turbidity	1	0	0	1	NTU
Volumes purged	5.1	10	6.1	10	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	51	<78	40	<85	1	V	µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	37	29	33	24	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	240	<220	230	310	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	3,800	3,600	3,800	3,000	1		µg/L	WA	0
		Carbon tetrachloride	1.1	<5.0	1.1	1.7	1		µg/L	WA	0
		Chloride	8,100	11,000	8,400	11,000	2		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	<7.0	<1.4	1.8	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0				µg/L	WA	0
		Dichloromethane	1.6	2.1	<1.4	<3.6	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<37	<32	<33	<39	1	V	µg/L	WA	0
		Gross alpha	4.1E+00	2.9E+00	2.7E+00	3.8E+00	1		pCi/L	TM	0
		Iron, total recoverable	33	<47	41	<9.4	1	V	µg/L	WA	0
		Lead, total recoverable	<47	<47	<47	10	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.051	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<2.2	<1.4	1.0	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	1,000	880	980	730	1	V	µg/L	WA	0
		Manganese, total recoverable	61	28	40	17	1		µg/L	WA	0
		Mercury, total recoverable	0.55	0.19	<0.35	0.81	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.51	<0.56	<0.52	1		µg/L	WA	0
■		Nitrate-nitrite as nitrogen	7,500	6,100	6,800	12,000	50		µg/L	WA	2
●		Nonvolatile beta	4.9E+00	3.7E+00	1.5E+01	1.2E+00	1	UI	pCi/L	TM	0
		pH	5.7	5.8	5.4	5.5	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,200	1,200	1,200	1,100	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 4D (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	1.8E+00	1.8E+00	8.9E-01	8.8E-01	1		pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	9,600	9,600	9,800	8,300	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<5.0	<0.55	1	V	µg/L	WA	0
		Sodium, total recoverable	13,000	12,000	14,000	10,000	1	V	µg/L	WA	
		Specific conductance	120	110	110	110	1		µS/cm	WA	0
		Sulfate	4,000	4,400	4,300	4,700	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	84,000	94,000	100,000	64,000	1		µg/L	WA	
		Total inorganic carbon	18,000	15,000	16,000	18,000	1		µg/L	WA	2
		Total organic carbon	520	<580	190	<1,000	1		µg/L	WA	0
		Total organic halogens	16	<120	25	25	1	JE	µg/L	WA	0
		Total phosphates (as P)	23	29	29	<67	1		µg/L	WA	0
		Toxaphene	<1.1	<1.0	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.52	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
■		Trichloroethylene	12	7.0	12	22	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	3.5E+00	3.3E+00	3.0E+00	2.0E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 5A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70956.3 E16703.7	33.209924 °N 81.760565 °W	ft msl	112 ft msl	PVC	S	Unconfined

SAMPLE DATE	03/11/96	05/24/96	09/12/96	12/05/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	97.9	97.4	96.8	96.8	ft msl
pH	4.0	5.2	4.0	5.4	pH
Sp. conductance	200	120	100	120	µS/cm
Water temperature	20.0	27.0	26.0	25.0	°C
Alkalinity as CaCO ₃	10	8	1	13	mg/L
Turbidity	3	3	2	1	NTU
Volumes purged	4.6	3.0	6.4	6.9	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<150	<71	22	<77	1	V	µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	4.0	3.7	3.7	4.2	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Boron, total recoverable	<200	<310	320	320	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1	J	µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	8,900	9,100	7,900	9,500	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	8,000	9,500	10,000	13,000	2		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1	J	µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1	J	µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1	J	µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1	J	µg/L	WA	0
		Chromium, total recoverable	1.5	<1.9	<1.1	<7.0	1		µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Dichloromethane	2.3	<2.8	<2.0	<0.93	1	JV	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.1	<1.1	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Endrin	<0.11	<0.11	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Fluoride	<33	<18	<21	<28	1	V	µg/L	WA	0
		Gross alpha	3.0E+00	1.5E+00	4.5E+00	4.2E+00	1		pCi/L	TM	0
		Iron, total recoverable	<56	91	89	<83	1	V	µg/L	WA	0
		Lead, total recoverable	11	13	18	23	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.053	<0.053	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<0.83	<0.45	<2.7	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	1,300	1,100	1,000	1,200	1	V	µg/L	WA	0
		Manganese, total recoverable	6.8	5.8	5.9	4.6	1	JE	µg/L	WA	0
		Mercury, total recoverable	0.18	0.10	0.28	0.72	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.53	<0.53	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	5,200	4,700	4,400	8,600	25		µg/L	WA	1
		Nonvolatile beta	2.9E+00	3.0E+00	6.6E+00	4.8E+00	1		pCi/L	TM	0
		pH	5.8	7.7	6.1	5.8	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	890	960	1,100	1,300	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL XSB 5A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	5.2E-01	9.1E-01	2.3E-01	2.9E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	8,600	8,300	8,700	7,500	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	6,400	7,100	11,000	13,000	1	V	µg/L	WA	
		Specific conductance	100	110	120	140	1		µS/cm	WA	0
		Sulfate	4,500	4,900	4,900	4,800	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Total dissolved solids	96,000	77,000	84,000	87,000	1		µg/L	WA	
		Total inorganic carbon	15,000	17,000	16,000	15,000	1		µg/L	WA	1
		Total organic carbon	390	850	190	<1,000	1		µg/L	WA	0
		Total organic halogens	20	<120	21	21	1	JE	µg/L	WA	0
		Total phosphates (as P)	40	53	53	31	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.1	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.55	<0.53	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
■		Trichloroethylene	9.4	5.1	4.0	13	1		µg/L	WA	2
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0
		Tritium	2.4E+00	1.9E+00	2.0E+00	1.3E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1	J	µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL YSB 1A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71162.2 E17808.8	33.212184 °N 81.758059 °W	128.4–98.4 ft msl	145.5 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/11/96	04/16/96	08/30/96	11/14/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	118.5	119.2	117.7	101.1	ft msl
pH	5.4	5.6	5.4	4.8	pH
Sp. conductance	28	14	56	28	µS/cm
Water temperature	22.0	24.0	28.0	26.0	°C
Alkalinity as CaCO ₃	10	4	4	3	mg/L
Turbidity	3	2	2	1	NTU
Volumes purged	2.4	13	9.5	37	well volumes
Sampling code				X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<150	360	<150	4,100	1		µg/L	WA	2
		Antimony, total recoverable				4.0	1	JE	µg/L	GE	1
		Arsenic, total recoverable	<40	<40	<40	4.1	1	JE	µg/L	WA	0
		Barium, total recoverable	9.7	12	21	42	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Beryllium, total recoverable				2.2	1	JEV	µg/L	GE	1
		Boron, total recoverable	<42	38	<270	34	1	JE	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromoform	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<2.0	1		µg/L	GE	0
		Cadmium, total recoverable	0.47	<4.7	<4.7	1.4	1	JEV	µg/L	GE	0
		Calcium, total recoverable	2,100	2,300	3,700	3,200	1	V	µg/L	GE	
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	4,200	4,300	11,000	3,600	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Chloroethane	<10	<10	<10	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<2.0	1		µg/L	GE	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	GE	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<2.0	1		µg/L	GE	0
		Chromium, total recoverable	<7.0	2.1	1.3	23	1		µg/L	WA	0
		Cobalt, total recoverable				2.0	1	JE	µg/L	GE	0
		Copper, total recoverable				40	1	V	µg/L	GE	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethylene	<5.0	<5.0					µg/L		
		trans-1,2-Dichloroethylene			<5.0	<2.0	1		µg/L	GE	0
		Dichloromethane	<5.0	<8.1	<1.3	<1.2	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<0.050	1	J	µg/L	GE	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Endrin	<0.11	<0.10	<0.11	<0.050	1		µg/L	GE	0
		Ethylbenzene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Fluoride	<25	<22	<18	<24	1	V	µg/L	WA	0
		Gross alpha	1.6E+00	2.3E-01	9.0E-01	5.5E+00	1		pCi/L	GP	0
		Iron, total recoverable	<48	1,300	66	12,000	1		µg/L	WA	2
		Lead, total recoverable	6.7	8.2	12	11	1	J	µg/L	GE	0
		Lindane	<0.053	<0.051	<0.056	<0.025	1		µg/L	GE	0
		Lithium, total recoverable	<1.0	<0.51	0.32	1.8	1	JE	µg/L	WA	0
		Magnesium, total recoverable	370	410	740	1,200	1		µg/L	WA	
		Manganese, total recoverable	1.2	3.3	2.2	15	1		µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.080	0.12	1	JE	µg/L	GE	0
		Methoxychlor	<0.53	<0.51	<0.56	<0.50	1		µg/L	GE	0
		Nickel, total recoverable				18	1		µg/L	GE	0
		Nitrate-nitrite as nitrogen	810	710	1,100	1,400	1	V	µg/L	GE	0
		Nonvolatile beta	1.5E+00	2.3E+00	1.6E+01	7.8E+00	1		pCi/L	GP	0
●		pH	5.8	5.8	5.5	6.0	1	J	pH	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL YSB 1A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Phenols	<36	<24	<36	<5.0	1		µg/L	GE	0
		Potassium, total recoverable	860	890	1,100	2,200	1		µg/L	WA	
		Radium, total alpha-emitting	2.8E-01	3.1E-01	6.5E-01	1.4E+00	1		pCi/L	GP	0
		Selenium, total recoverable	<66	<66	<66	2.2	1	JE	µg/L	GE	0
		Silica, total recoverable	9,100	10,000	8,000	28,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Sodium, total recoverable	2,600	2,700	4,400	2,700	1	V	µg/L	GE	
		Specific conductance	34	35	63	34	1		µS/cm	WA	0
		Sulfate	450	510	420	670	1		µg/L	WA	0
		2,4,5-T				<0.050	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Thallium, total recoverable				<5.5	1	V	µg/L	GE	0
		Toluene	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Total dissolved solids	61,000	47,000	59,000	44,000	1	JE	µg/L	WA	
		Total inorganic carbon	9,000	7,600	6,700	8,100	1		µg/L	WA	0
		Total organic carbon	190	<320	290	150	1	JE	µg/L	WA	0
		Total organic halogens	<120	<120	40	22	1	JE	µg/L	WA	0
		Total phosphates (as P)	12	49	<70	78	1		µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.1	<0.99	1		µg/L	GE	0
		2,4,5-TP (Silvex)	<0.51	<0.51	<0.52	<0.025	1		µg/L	GE	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<2.0	1		µg/L	GE	0
		Tritium	2.8E+00	2.7E+00	2.5E+00	2.3E+00	1		pCi/mL	TM	0
		Vanadium, total recoverable				6.8	1	JE	µg/L	GE	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Zinc, total recoverable				19	1		µg/L	GE	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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WELL YSB 2A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71010.0 E17850.2	33.211915 °N 81.757655 °W	127.7-97.7 ft msl	144.7 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/11/96	04/17/96	08/30/96	10/29/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	119.1	120.3	118.6	119.5	ft msl
pH	5.4	5.6	5.6	5.4	pH
Sp. conductance	34	40	38	40	µS/cm
Water temperature	22.0	23.0	26.0	21.0	°C
Alkalinity as CaCO ₃	1	5	6	1	mg/L
Turbidity	8	1	1	4	NTU
Volumes purged	5.4	16	4.7	5.5	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aldrin		<0.025					µg/L		
		Aluminum, total recoverable	<150	46	21	<81	1	V	µg/L	WA	0
		Arsenic, total recoverable	<40	<5.0	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	7.6	8.3	7.4	6.9	1		µg/L	WA	0
		Benzene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		alpha-Benzene hexachloride		<0.025					µg/L		
		beta-Benzene hexachloride		<0.050					µg/L		
		delta-Benzene hexachloride		<0.050					µg/L		
		Boron, total recoverable	<150	110	65	<72	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Bromoform	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Bromomethane (Methyl bromide)	<10	<2.0	<10	<2.0	1	J1	µg/L	GE	0
		Cadmium, total recoverable	<4.7	<2.0	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	1,500	1,600	1,400	1,400	1		µg/L	WA	
		Carbon tetrachloride	<5.0	<2.0	<5.0	<1.0	1		µg/L	WA	0
		alpha-Chlordane		<0.050					µg/L		
		gamma-Chlordane		<0.050					µg/L		
		Chloride	3,400	3,700	3,300	3,400	1		µg/L	WA	0
		Chlorobenzene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Chloroethane	<10	<2.0	<10	<2.0	1	J1	µg/L	GE	0
		Chloroethene (Vinyl chloride)	<10	<2.0	<10	<2.0	1	J1	µg/L	GE	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1	J1	µg/L	GE	0
		Chloroform	<5.0	<2.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<2.0	<10	<2.0	1	J1	µg/L	GE	0
		Chromium, total recoverable	1.4	<4.0	1.6	<7.0	1		µg/L	WA	0
		p,p'-DDD		<0.10					µg/L		
		p,p'-DDE		<0.050					µg/L		
		p,p'-DDT		<0.10					µg/L		
		Dibromochloromethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		1,1-Dichloroethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		1,2-Dichloroethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		1,1-Dichloroethylene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene		<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Dichloromethane	2.5	<1.1	<3.8	<1.9	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<0.049	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		cis-1,3-Dichloropropene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		trans-1,3-Dichloropropene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Dieldrin		<0.050					µg/L		
		Endosulfan sulfate		<0.10					µg/L		
		Endosulfan I		<0.050					µg/L		
		Endosulfan II		<0.10					µg/L		
		Endrin	<0.11	<0.050	<0.11	<0.10	1		µg/L	WA	0
		Endrin ketone		<0.10					µg/L		
		Ethylbenzene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Fluoride	<22	<24	<21	<50	1	V	µg/L	WA	0
		Gross alpha	8.5E-01	1.5E+00	1.9E-01	1.1E+00	1	J1	pCi/L	TM	0
		Heptachlor		<0.050					µg/L		
		Heptachlor epoxide		<0.050					µg/L		

Notes: Results in bold *italics* exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in *italics* is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL YSB 2A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Iron, total recoverable	240	83	330	390	1	V	µg/L	WA	2
		Lead, total recoverable	8.2	1.9	<47	15	1	JE	µg/L	WA	0
		Lindane	<0.053	<0.025	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<1.3	<0.67	<2.7	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	350	340	340	300	1	V	µg/L	WA	0
		Manganese, total recoverable	3.2	1.7	2.1	2.9	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.20	<0.70	0.091	1	JE	µg/L	GE	0
		Methoxychlor	<0.53	<0.50	<0.56	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	650	680	670	1,100	1	V	µg/L	GE	0
		Nonvolatile beta	4.7E-01	9.5E-01	1.2E+00	1.0E+00	1	UI	pCi/L	TM	0
		PCB 1016		<0.13					µg/L		
		PCB 1221		<0.13					µg/L		
		PCB 1232		<0.13					µg/L		
		PCB 1242		<0.13					µg/L		
		PCB 1248		<0.13					µg/L		
		PCB 1254		<0.13					µg/L		
		PCB 1260		<0.13					µg/L		
●		pH	5.7	5.8	5.8	5.8	1	J	pH	WA	0
		Phenols	<36	<5.0	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	710	680	650	750	1		µg/L	WA	0
		Radium, total alpha-emitting	3.8E-01	1.0E-01	9.0E-02	1.5E-01	1	J1	pCi/L	TM	0
		Selenium, total recoverable	<66	2.0	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	8,300	7,900	7,200	7,100	2.1	V	µg/L	WA	0
		Silver, total recoverable	<5.0	4.6	0.64	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	4,800	5,000	4,900	4,300	1	V	µg/L	WA	0
		Specific conductance	39	40	41	39	1		µS/cm	WA	0
		Sulfate	2,800	2,800	2,400	2,100	1		µg/L	WA	0
		2,4,5-T		<0.049					µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Tetrachloroethylene	<5.0	<2.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Total dissolved solids	61,000	34,000	33,000	24,000	1	JE	µg/L	WA	0
		Total inorganic carbon	13,000	12,000	9,900	9,500	1		µg/L	WA	1
		Total organic carbon	390	670	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	<120	3.5	<120	8.7	1	JE	µg/L	WA	0
		Total phosphates (as P)	13	64	<70	<67	1		µg/L	WA	0
		Toxaphene	<1.1	<1.0	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.024	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<2.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Trichloroethylene	<5.0	<2.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<2.0	<5.0	<2.0	1	J1	µg/L	GE	0
		Tritium	2.5E+00	2.6E+00	2.2E+00	2.0E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL YSB 3A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N70859.0 E17755.2	33.211427 °N 81.757611 °W	126.7–96.7 ft msl	143.9 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/25/96	04/17/96	08/30/96	10/29/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	117.8	119.7	117.7	118.9	ft msl
pH	6.0	6.5	6.2	6.0	pH
Sp. conductance	70	100	140	180	µS/cm
Water temperature	22.0	21.0	26.0	22.0	°C
Alkalinity as CaCO ₃	28	34	30	2	mg/L
Turbidity	81	6	7	25	NTU
Volumes purged	3.5	8.7	6.2	8.6	well volumes
Sampling code				X	

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	2,600	1,500	1,100	1,700	1	V	µg/L	WA	2
		Arsenic, total recoverable	4.2	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	9.7	6.3	8.6	12	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	610	900	610	530	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	0.75	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	1,700	1,700	3,300	9,200	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	1,200	4,200	15,000	20,000	2		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	1.9	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
■		Chromium, total recoverable	53	38	31	150	1		µg/L	WA	2
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane	<3.9	<1.1	<1.5	<0.96	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.1	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<57	<54	<56	<33	1	V	µg/L	WA	0
		Gross alpha	1.8E+00	9.3E-01	1.1E+00	2.3E+00	1		pCi/L	GP	0
		Iron, total recoverable	9,300	2,700	4,600	7,000	1	V	µg/L	WA	2
		Lead, total recoverable	10	<47	<47	8.8	1	J	µg/L	GE	0
		Lindane	<0.053	<0.051	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	4.9	3.2	4.1	1.8	1	JE	µg/L	WA	0
		Magnesium, total recoverable	630	480	580	970	1	V	µg/L	WA	0
		Manganese, total recoverable	63	23	25	77	1		µg/L	WA	2
		Mercury, total recoverable	0.13	<0.70	<0.080	<0.20	1		µg/L	GE	0
		Methoxychlor	<0.53	<0.51	<0.56	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	830	1,600	3,600	4,500	10		µg/L	WA	0
		Nonvolatile beta	3.1E+00	9.8E-01	2.7E+00	7.1E-01	1	UI	pCi/L	TM	0
●		pH	6.5	6.6	6.2	6.3	1	J	pH	WA	0
		Phenols	<36	<36	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	1,000	680	890	1,500	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL YSB 3A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	5.4E-01	<i>1.2E-01</i>	4.9E-01	<i>4.0E-02</i>	1	UI	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	13,000	9,800	11,000	16,000	2.1	V	µg/L	WA	
		Silver, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	15,000	21,000	24,000	19,000	1	V	µg/L	WA	
		Specific conductance	90	110	160	150	1		µS/cm	WA	0
		Sulfate	7,100	8,900	3,000	4,100	1		µg/L	WA	0
		2,4,5-T	<0.53						µg/L		
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	5,000	74,000	110,000	95,000	1		µg/L	WA	
		Total inorganic carbon	15,000	14,000	16,000	16,000	1		µg/L	WA	1
		Total organic carbon	710	<410	190	110	1	JE	µg/L	WA	0
		Total organic halogens	14	<120	13	11	1	JE	µg/L	WA	0
		Total phosphates (as P)	160	330	120	58	1	JE	µg/L	WA	
		Toxaphene	<1.1	<1.0	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.53	<0.51	<0.52	<0.51	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	<i>1.4E-01</i>	8.6E-01	1.0E+00	2.1E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

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WELL YSB 4A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N71020.7 E17739.8	33.211759 °N 81.757966 °W	127.6–97.6 ft msl	144.6 ft msl	4" PVC	S	Unconfined

SAMPLE DATE	03/11/96	04/16/96	08/30/96	11/11/96
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FIELD DATA

Parameter	1Q	2Q	3Q	4Q	Unit
Water elevation	118.3	118.4	117.3	119.1	ft msl
pH	4.6	5.2	5.4	5.2	pH
Sp. conductance	60	50	54	40	µS/cm
Water temperature	20.0	20.0	29.0	26.0	°C
Alkalinity as CaCO ₃	17	7	4	1	mg/L
Turbidity	4	5	2	5	NTU
Volumes purged	8.6	5.9	4.2	18	well volumes
Sampling code					

ANALYTICAL DATA

H	ST	Parameter	1Q	2Q	3Q	4Q	DF	Mod	Unit	Lab	Flag
		Aluminum, total recoverable	<150	220	50	<150	1	V	µg/L	WA	0
		Arsenic, total recoverable	<40	<40	<40	<40	1		µg/L	WA	0
		Barium, total recoverable	6.0	6.2	6.5	5.3	1		µg/L	WA	0
		Benzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Boron, total recoverable	<250	220	220	<100	1	V	µg/L	WA	0
		Bromodichloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromoform	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Bromomethane (Methyl bromide)	<10	<10	<10	<10	1		µg/L	WA	0
		Cadmium, total recoverable	<4.7	<4.7	<4.7	<4.7	1		µg/L	WA	0
		Calcium, total recoverable	860	1,100	950	890	1		µg/L	WA	0
		Carbon tetrachloride	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloride	4,100	4,400	3,700	3,800	1		µg/L	WA	0
		Chlorobenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Chloroethane	<10	<10	<10	<10	1		µg/L	WA	0
		Chloroethene (Vinyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		2-Chloroethyl vinyl ether	<10	<10	10	<10	1		µg/L	WA	0
		Chloroform	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Chloromethane (Methyl chloride)	<10	<10	<10	<10	1		µg/L	WA	0
		Chromium, total recoverable	2.2	<7.0	7.0	3.4	1	JE	µg/L	WA	0
		Dibromochloromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		1,2-Dichloroethylene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,2-Dichloroethylene			<5.0				µg/L		
		Dichloromethane	1.9	<3.3	<1.3	<4.0	1	V	µg/L	WA	0
		2,4-Dichlorophenoxyacetic acid	<1.0	<1.0	<1.0	<1.0	1		µg/L	WA	0
		1,2-Dichloropropane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		cis-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		trans-1,3-Dichloropropene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Endrin	<0.11	<0.10	<0.11	<0.10	1		µg/L	WA	0
		Ethylbenzene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Fluoride	<25	<33	<24	<33	1	V	µg/L	WA	0
		Gross alpha	3.1E-01	8.0E-02	1.5E+00	9.6E-01	1	J1	pCi/L	TM	0
		Iron, total recoverable	190	660	910	330	1	V	µg/L	WA	2
		Lead, total recoverable	5.2	<47	4.7	<7.3	1	V	µg/L	WA	0
		Lindane	<0.053	<0.051	<0.056	<0.052	1		µg/L	WA	0
		Lithium, total recoverable	<1.3	<0.68	0.27	<2.7	1		µg/L	WA	0
		Magnesium, total recoverable	270	280	280	230	1	V	µg/L	WA	0
		Manganese, total recoverable	4.8	7.1	6.4	3.5	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.70	<0.70	<0.70	<0.70	1		µg/L	WA	0
		Methoxychlor	<0.53	<0.51	<0.56	<0.52	1		µg/L	WA	0
		Nitrate-nitrite as nitrogen	770	760	810	720	1		µg/L	WA	0
		Nonvolatile beta	1.4E+00	3.0E+00	1.1E+00	3.8E-01	1	UI	pCi/L	TM	0
		pH	5.7	5.6	5.6	5.7	1	J	pH	WA	0
		Phenols	<36	<24	<36	<36	1		µg/L	WA	0
		Potassium, total recoverable	630	640	640	550	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

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■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

WELL YSB 4A (cont.)

H	ST	Parameter	1Q96	2Q96	3Q96	4Q96	DF	Mod	Unit	Lab	Flag
		Radium, total alpha-emitting	3.1E-01	5.0E-01	3.9E-01	1.0E-01	1	UI	pCi/L	TM	0
		Selenium, total recoverable	<66	<66	<66	<66	1		µg/L	WA	0
		Silica, total recoverable	8,800	8,400	7,800	5,800	2.1	V	µg/L	WA	0
		Silver, total recoverable	<5.0	<0.65	<5.0	<5.0	1		µg/L	WA	0
		Sodium, total recoverable	8,700	8,000	8,900	5,500	1	V	µg/L	WA	0
		Specific conductance	57	55	59	52	1		µS/cm	WA	0
		Sulfate	8,600	7,300	8,000	6,900	1		µg/L	WA	0
		1,1,2,2-Tetrachloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Toluene	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Total dissolved solids	56,000	60,000	49,000	34,000	1	JE	µg/L	WA	0
		Total inorganic carbon	16,000	14,000	13,000	13,000	1		µg/L	WA	1
		Total organic carbon	490	<510	<1,000	<1,000	1		µg/L	WA	0
		Total organic halogens	<120	<120	<120	8.4	1	JE	µg/L	WA	0
		Total phosphates (as P)	15	25	<70	58	1	JE	µg/L	WA	0
		Toxaphene	<1.1	<1.0	<1.1	<1.0	1		µg/L	WA	0
		2,4,5-TP (Silvex)	<0.51	<0.51	<0.52	<0.52	1		µg/L	WA	0
		1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		1,1,2-Trichloroethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Trichloroethylene	<5.0	<5.0	<5.0	<1.0	1		µg/L	WA	0
		Trichlorofluoromethane	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0
		Tritium	2.3E+00	2.7E+00	1.9E+00	2.3E+00	1		pCi/mL	TM	0
		Xylenes	<5.0	<5.0	<5.0	<5.0	1		µg/L	WA	0

Notes: Results in bold italics exceed final primary drinking water standards or screening levels listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Dilution factor, modifier, laboratory, and flag are for fourth quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for fourth quarter 1996.

■ = exceeded final primary drinking water standard or screening level for fourth quarter 1996.

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 QC data are reviewed prior to publication of results. The review by the Environmental Protection Department/ Environmental Monitoring Section (EPD/EMS) of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; EPD/EMS' review of the QC data cannot be completed in time to meet the deadlines for the groundwater monitoring reports required by the Resource Conservation and Recovery Act and associated regulations. Beginning first quarter 1996, the *Quality Control Samples* section of EMS' quarterly groundwater monitoring report contains detailed evaluation of the following indicators of data quality: precision, accuracy, representativeness, comparability, and completeness. 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 QC information either at the same time as analytical results or in quarterly summaries. Properly defined and used modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Modifiers designed by EPA or EPD/EMS and used by the primary laboratories or EMS' data validators 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 evaluation of results obtained from known samples. The contract laboratories analyze commercial reference samples periodically at EPD/EMS' request. The results of these analyses from the nonradionuclide laboratories are presented in the EPD/EMS groundwater monitoring quarterly reports; the results from the radionuclide laboratories should be available on request from the laboratory subcontract representatives. The primary laboratories also seek or maintain state certification by participating periodically in performance studies. Reference samples and evaluation of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

Analysis of blanks provides a tool for assessing the accuracy of both sampling and laboratory analysis. Results for all field blanks for the quarter can be found in the EPD/EMS quarterly reports. Any field or laboratory blanks that exceed established minimums are identified in the same reports, in tables associating them with groundwater samples analyzed in the same batches. In these regulatory reports, the modifier V is assigned to every detected result that is run in the same batch as a laboratory blank with positive results for that analyte. A U qualifier (reported as *less than* [$<$]) also is added if the analyte concentration is less than five times the concentration in the blank (or, for common laboratory contaminants, less than ten times).

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 by EPA Method 8270, three surrogates are required and an additional compound is advised for each fraction (acids and base/neutrals). 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. Beginning first quarter 1996, statistical summaries are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. 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 portion of the 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. Beginning first quarter 1996, spike results and a statistical summary are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. 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 EPD/EMS 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 results tables that report only one quarter of data. Results tables that include more than one quarter of data 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. The EMS data validators apply a data qualifier to the results of entire preparation batches of metals analyses when the RPD for laboratory duplicates is greater than 20 percent and either the difference between the two samples is greater than the contract-required detection limit (CRDL) or both sample results are greater than 5 times the CRDL. This qualifier is published in the EPD/EMS quarterly reports.

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 wastewater. 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 1995 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. The EPD/EMS quarterly reports provide the methods used by the laboratories each quarter.

Table E-1. Methods Used by the Contract Laboratories

Method	Used to Analyze	Source
EICHROMTC1MOD ^a	Technetium isotopes	EiChrom Industries, Inc.; NA ^b
EMLAM01MOD	Americium, curium isotopes	DOE, 1992
EMLPU02MOD	Neptunium, plutonium isotopes	DOE, 1992
EMLSR02MOD	Strontium isotopes	DOE, 1992
EMLTH01MOD	Thorium isotopes	DOE, 1992
EMLU02MOD	Uranium isotopes	DOE, 1992
ENICMOD	Carbon-14	NA
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
EPA245.1	Mercury	EPA EMSL, 1983
EPA300.0	Chloride, nitrite, sulfate, fluoride	EPA EMSL, 1983
EPA310.1	Alkalinity (as CaCO ₃)	EPA EMSL, 1983
EPA335.2	Cyanide	EPA EMSL, 1983
EPA335.3	Cyanide	EPA EMSL, 1983
EPA340.2	Fluoride	EPA EMSL, 1983
EPA350.1	Ammonia nitrogen	EPA EMSL, 1983
EPA350.3	Ammonia	EPA EMSL, 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL, 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL, 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.3	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.4	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA405.1	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA405.1/SM	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA410.4	Chemical oxygen demand	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
EPA450.1	Total organic halogens	NA
EPA900.0MOD	Gross alpha, nonvolatile beta	EPA EMSL, 1980
EPA901.1MOD	Gamma PHA, iodine isotopes	EPA EMSL, 1980
EPA903.0MOD	Total alpha-emitting radium, radium isotopes	EPA EMSL, 1980
EPA904.0MOD	Radium isotopes	EPA EMSL, 1980
EPA906.0MOD	Tritium	EPA EMSL, 1980
EPA6010	Metals	EPA, 1986
EPA6010A	Metals	EPA, 1992
EPA7470	Mercury	EPA, 1986
EPA8080	Organochlorine pesticides and PCBs	EPA, 1986
EPA8150	Chlorinated herbicides	EPA, 1986
EPA8240	GCMS volatiles	EPA, 1986

Table E-1. Methods Used by the Contract Laboratories, cont.

Method	Used to Analyze	Source
EPA8260	GCMS volatiles	EPA, 1986
EPA8270	GCMS semivolatiles	EPA, 1986
EPA8280	Dioxins and furans	EPA, 1986
EPA9020A	Total organic halogens	EPA, 1986
EPA9020B	Total organic halogens	EPA, 1994b
EPA9060	Total inorganic carbon	EPA, 1986
EPIA-001 ^c	Gross alpha, nonvolatile beta	EP, 1996
EPIA-002 ^c	Tritium	EP, 1996
EPIA-003 ^c	Carbon-14	EP, 1996
EPIA-004 ^c	Strontium-90	EP, 1996
EPIA-005 ^c	Technetium-99	EP, 1996
EPIA-006 ^c	Iodine-129	EP, 1996
EPIA-008 ^c	Radium-226	EP, 1996
EPIA-009 ^c	Radium-228	EP, 1996
EPIA-010 ^c	Radium, total alpha-emitting	EP, 1996
EPIA-011 ^c	Americium, curium, uranium isotopes	EP, 1996
EPIA-012 ^c	Neptunium, plutonium, thorium isotopes	EP, 1996
EPIA-013 ^c	Gamma PHA	EP, 1996
EPIA-022 ^c	Nickel isotopes	EP, 1996
MMES16009MOD	Technetium-99	NA
3Q1-6-1420	Total activity, tritium	NA

^a MOD indicates modifications of applicable EPA, DOE, or other procedures.

^b NA = not available. Sources for some proprietary methods are not available.

^c The methods and detection limits used by GP are in-house methods based on applicable EPA, DOE, or other procedures. Complete method descriptions are available from GP.

Note: One of the labs reports the method for some metals determinations as CLP or CLP-MOD. This is presumed equivalent to Method 6010 or 6010A.

An example of method-specific QC information is that for EPA Method 8270 (EPA, 1986), which is used by both GE and Weston for analyses of semivolatile organics. 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.

Table E-2. Method Accuracy and Precision as Functions of Concentration for EPA Method 8270

Parameter	Accuracy, as recovery, $\bar{x}$ (µg/L)	Single analyst precision, s_r (µg/L)	Overall precision, S (µg/L)
Acenaphthene	0.96C+0.19	0.15X-0.12	0.21X-0.67
Acenaphthylene	0.89C+0.74	0.24X-1.06	0.26X-0.54
Aldrin	0.78C+1.66	0.27X-1.28	0.43X+1.13
Anthracene	0.80C+0.68	0.21X-0.32	0.27X-0.64
Benzo[a]anthracene	0.88C-0.60	0.15X+0.93	0.26X-0.21
Benzo[b]fluoranthene	0.93C-1.80	0.22X+0.43	0.29X+0.96
Benzo[k]fluoranthene	0.87C-1.56	0.19X+1.03	0.35X+0.40
Benzo[g,h,i]perylene	0.98C-0.86	0.29X+2.40	0.51X-0.44
Benzo[a]pyrene	0.90C-0.13	0.22X+0.48	0.32X+1.35
β-BHC	0.87C-0.94	0.20X-0.58	0.30X+1.94
δ-BHC	0.29C-1.09	0.34X+0.86	0.93X+0.17
Bis(2-chloroethoxy) methane	1.12C-5.04	0.16X+1.34	0.26X+2.01

Table E-2. Method Accuracy and Precision as Functions of Concentration for EPA Method 8270, cont.

Parameter	Accuracy, as recovery, $\bar{x}$ (µg/L)	Single analyst precision, s_r (µg/L)	Overall precision, S (µg/L)
Bis(2-chloroethyl) ether	0.86C-1.54	0.35X-0.99	0.35X+0.10
Bis(2-chloroisopropyl) ether	1.03C-2.31	0.24X+0.28	0.25X+1.04
Bis(2-ethylhexyl) phthalate	0.84C-1.18	0.26X+0.73	0.36X+0.67
4-Bromophenyl phenyl ether	0.91C-1.34	0.13X+0.66	0.16X+0.66
Butylbenzyl phthalate	0.66C-1.68	0.18X+0.94	0.53X+0.92
4-Chloro-m-cresol	0.84C+0.35	0.23X+0.75	0.29X+1.31
Chloroethane	0.99C-1.53	0.14X-0.13	0.17X-0.28
2-Chloronaphthalene	0.89C+0.01	0.07X+0.52	0.13X+0.34
2-Chlorophenol	0.78C+0.29	0.18X+1.46	0.28X+0.97
4-Chlorophenyl phenyl ether	0.91C+0.53	0.20X-0.94	0.30X-0.46
Chrysene	0.93C-1.00	0.28X+0.13	0.33X-0.09
p,p'-DDD	0.56C-0.40	0.29X-0.32	0.66X-0.96
p,p'-DDE	0.70C-0.54	0.26X-1.17	0.39X-1.04
p,p'-DDT	0.79C-3.28	0.42X+0.19	0.65X-0.58
Dibenz[a,h]anthracene	0.88C+4.72	0.30X+8.51	0.59X+0.25
Di-n-butyl phthalate	0.59C+0.71	0.13X+1.16	0.39X+0.60
1,2-Dichlorobenzene	0.80C+0.28	0.20X+0.47	0.24X+0.39
1,3-Dichlorobenzene	0.86C-0.70	0.25X+0.68	0.41X+0.11
1,4-Dichlorobenzene	0.73C-1.47	0.24X+0.23	0.29X+0.36
3,3'-Dichlorobenzidine	1.23C-12.65	0.28X+7.33	0.47X+3.45
2,4-Dichlorophenol	0.87C-0.13	0.15X+1.25	0.21X+1.28
Dieldrin	0.82C-0.16	0.20X-0.16	0.26X-0.07
Diethyl phthalate	0.43C+1.00	0.28X+1.44	0.52X+0.22
2,4-Dimethyl phenol	0.71C+4.41	0.16X+1.21	0.22X+1.31
Dimethyl phthalate	0.20C+1.03	0.54X+0.19	1.05X-0.92
2,4-Dinitrophenol	0.81C-18.04	0.38X+2.36	0.42X+26.29
2,4-Dinitrotoluene	0.92C-4.81	0.12X+1.06	0.21X+1.50
2,6-Dinitrotoluene	1.06C-3.60	0.14X+1.26	0.19X+0.35
Di-n-octyl phthalate	0.76C-0.79	0.21X+1.19	0.37X+1.19
Endosulfan sulfate	0.39C+0.41	0.12X+2.47	0.63X-1.03
Endrin aldehyde	0.76C-3.86	0.18X+3.91	0.73X-0.62
Fluoranthene	0.81C+1.10	0.22X-0.73	0.28X-0.60
Fluorene	0.90C-0.00	0.12X+0.26	0.13X+0.61
Heptachlor	0.87C-2.97	0.24X-0.56	0.50X-0.23
Heptachlor epoxide	0.92C-1.87	0.33X-0.46	0.28X+0.64
Hexachlorobenzene	0.74C+0.66	0.18X-0.10	0.43X-0.52
Hexachlorobutadiene	0.71C-1.01	0.19X+0.92	0.26X+0.49
Hexachloroethane	0.73C-0.83	0.17X+0.67	0.17X+0.80
Indeno[1,2,3-c,d]pyrene	0.78C-3.10	0.29X+1.46	0.50X-0.44
Isophorone	1.12C+1.41	0.27X+0.77	0.33X+0.26
2-Methyl-4,6-dinitrophenol	1.04C-28.04	0.10X+42.29	0.26X+23.10
Naphthalene	0.76C+1.58	0.21X-0.41	0.30X-0.68
Nitrobenzene	1.09C-3.05	0.19X+0.92	0.27X+0.21
2-Nitrophenol	0.07C-1.15	0.16X+1.94	0.27X+2.60
4-Nitrophenol	0.61C-1.22	0.38X+2.57	0.44X+3.24
N-Nitrosodi-n-propylamine	1.12C-6.22	0.27X+0.68	0.44X+0.47
PCB 1260	0.81C-10.86	0.35X+3.61	0.43X+1.82
Pentachlorophenol	0.93C+1.99	0.24X+3.03	0.30X+4.33
Phenanthrene	0.87C+0.06	0.12X+0.57	0.15X+0.25
Phenol	0.43C+1.26	0.26X+0.73	0.35X+0.58
Pyrene	0.84C-0.16	0.16X+0.06	0.15X+0.31
1,2,4-Trichlorobenzene	0.94C-0.79	0.15X+0.85	0.21X+0.39
2,4,6-Trichlorophenol	0.91C-0.18	0.16X+2.22	0.22X+1.81

Table E-2. Method Accuracy and Precision as Functions of Concentration for EPA Method 8270, cont.

$\bar{x}$ = Expected recovery for one or more measurements of a sample containing a concentration of C, in $\mu\text{g/L}$.
 s_r = Expected single analyst standard deviation of measurements at an average concentration of X, in $\mu\text{g/L}$.
 S' = Expected interlaboratory standard deviation of measurements at an average concentration of X, in $\mu\text{g/L}$.
C = True value for the concentration, in $\mu\text{g/L}$.
X = Average recovery found for measurements of samples containing a concentration of C, in $\mu\text{g/L}$.

Appendix F

Time Series Plots

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Carbon Tetrachloride Concentrations Well P 26B

Carbon Tetrachloride Concentrations Well P 26D

Well TBG 1

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Carbon Tetrachloride Concentrations Well TBG 3

Carbon Tetrachloride Concentrations Well TBG 4

Carbon Tetrachloride Concentrations Well TBG 5

Carbon Tetrachloride Concentrations Well TBG 5A

Carbon Tetrachloride Concentrations Well TBG 5B

Carbon Tetrachloride Concentrations Well TBG 6

Carbon Tetrachloride Concentrations Well TIR 1L

Carbon Tetrachloride Concentrations Well TIR 1M

Carbon Tetrachloride Concentrations Well TIR 1U

Carbon Tetrachloride Concentrations Well TIR 2

Carbon Tetrachloride Concentrations Well TIR 3B

Carbon Tetrachloride Concentrations Well TNX 1D

Carbon Tetrachloride Concentrations Well TNX 2D

Carbon Tetrachloride Concentrations Well TNX 3D

Carbon Tetrachloride Concentrations Well TNX 4D

Carbon Tetrachloride Concentrations Well TNX 5D

Carbon Tetrachloride Concentrations Well TNX 7D

Carbon Tetrachloride Concentrations Well TNX 8D

Carbon Tetrachloride Concentrations Well TNX 9D

Carbon Tetrachloride Concentrations Well TNX 10D

Carbon Tetrachloride Concentrations
Well TNX 11D

Carbon Tetrachloride Concentrations Well TNX 12D

Carbon Tetrachloride Concentrations Well TNX 13D

Carbon Tetrachloride Concentrations Well TNX 14D

Carbon Tetrachloride Concentrations Well TNX 15D

Carbon Tetrachloride Concentrations Well TNX 16D

Carbon Tetrachloride Concentrations Well TNX 17D

Carbon Tetrachloride Concentrations Well TNX 18D

Carbon Tetrachloride Concentrations Well TNX 19D

Carbon Tetrachloride Concentrations Well TNX 20D

Carbon Tetrachloride Concentrations Well TNX 21D

Carbon Tetrachloride Concentrations Well TNX 22D

TNX Area

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Carbon Tetrachloride Concentrations Well TNX 23D

Carbon Tetrachloride Concentrations Well TNX 24D

TNX Area

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Carbon Tetrachloride Concentrations Well TNX 26D

Carbon Tetrachloride Concentrations Well TNX 27D

Carbon Tetrachloride Concentrations Well TRW 1

Carbon Tetrachloride Concentrations Well TRW 2

Carbon Tetrachloride Concentrations Well TRW 3

Carbon Tetrachloride Concentrations Well TRW 4

Carbon Tetrachloride Concentrations Well XSB 1A

Carbon Tetrachloride Concentrations Well XSB 1B

Carbon Tetrachloride Concentrations Well XSB 1D

Carbon Tetrachloride Concentrations Well XSB 2D

Carbon Tetrachloride Concentrations Well XSB 3A

Carbon Tetrachloride Concentrations Well XSB 4D

Carbon Tetrachloride Concentrations Well XSB 5A

Carbon Tetrachloride Concentrations Well YSB 1A

Carbon Tetrachloride Concentrations Well YSB 2A

Carbon Tetrachloride Concentrations Well YSB 3A

Carbon Tetrachloride Concentrations Well YSB 4A

Field pH
Well Cluster P 26

Field pH Well TBG 1

Field pH
Well TBG 3

Field pH Well TBG 4

Field pH Well Cluster TBG 5

Field pH Well TBG 6

Field pH Well TBG 7

Field pH Well TIR 1L

Field pH Well TIR 1M

Field pH Well TIR 1U

Field pH Well TIR 2

Field pH
Well TIR 3B

Field pH
Well TNX 1D

Field pH Well TNX 2D

Field pH Well TNX 3D

Field pH Well TNX 4D

Field pH Well TNX 5D

Field pH Well TNX 6D

Field pH Well TNX 7D

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Field pH Well TNX 26D

Field pH Well TNX 27D

Field pH
Well TRW 1

Field pH Well TRW 2

Field pH Well TRW 3

Field pH Well TRW 4

Field pH Well Cluster XSB 1

Field pH Well XSB 2D

Field pH Well XSB 3A

Field pH Well XSB 4D

Field pH Well XSB 5A

Field pH Well YSB 1A

Field pH Well YSB 2A

Field pH Well YSB 3A

Field pH Well YSB 4A

Gross Alpha Activities Well P 26A

Gross Alpha Activities Well P 26B

Gross Alpha Activities Well P 26D

Gross Alpha Activities Well TBG 1

Gross Alpha Activities Well TBG 3

Gross Alpha Activities Well TBG 4

Gross Alpha Activities Well TBG 5

Gross Alpha Activities Well TBG 5A

Gross Alpha Activities Well TBG 5B

Gross Alpha Activities Well TBG 6

Gross Alpha Activities Well TBG 7

Gross Alpha Activities Well TNX 1D

Gross Alpha Activities Well TNX 2D

Gross Alpha Activities Well TNX 3D

Gross Alpha Activities Well TNX 4D

Gross Alpha Activities Well TNX 5D

Gross Alpha Activities Well TNX 6D

Gross Alpha Activities Well TNX 7D

Gross Alpha Activities Well TNX 8D

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Gross Alpha Activities Well TNX 26D

Gross Alpha Activities Well TNX 27D

Gross Alpha Activities Well TRW 1

Gross Alpha Activities Well TRW 2

Gross Alpha Activities Well TRW 3

Gross Alpha Activities Well TRW 4

Gross Alpha Activities Well XSB 1A

Gross Alpha Activities Well XSB 1B

Gross Alpha Activities Well XSB 1D

Gross Alpha Activities Well XSB 2D

Gross Alpha Activities Well XSB 3A

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Mercury Concentrations Well TNX 7D

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Mercury Concentrations Well TNX 9D

Mercury Concentrations Well TNX 10D

Mercury Concentrations Well TNX 11D

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Mercury Concentrations Well TRW 1

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Mercury Concentrations Well XSB 1A

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Nitrate Concentrations Well TBG 3

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Nitrate Concentrations Well TBG 5

Nitrate Concentrations Well TBG 5A

Nitrate Concentrations Well TBG 5B

Nitrate Concentrations Well TBG 6

Nitrate Concentrations Well TBG 7

Nitrate Concentrations Well TIR 1L

Nitrate Concentrations Well TIR 1M

Nitrate Concentrations Well TIR 1U

Nitrate Concentrations Well TIR 2

Nitrate Concentrations Well TIR 3B

Nitrate Concentrations Well TNX 1D

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Nitrate Concentrations Well TNX 3D

Nitrate Concentrations Well TNX 4D

Nitrate Concentrations Well TNX 5D

Nitrate Concentrations Well TNX 6D

Nitrate Concentrations Well TNX 7D

Nitrate Concentrations Well TNX 8D

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Nitrate Concentrations Well TNX 24D

Nitrate Concentrations Well TNX 26D

Nitrate Concentrations Well TNX 27D

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Nitrate Concentrations Well TRW 3

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Nitrate Concentrations Well XSB 1D

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Radium-228 Activities Well TBG 7

Radium-228 Activities Well TNX 1D

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Radium-228 Activities Well YSB 1A

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Tetrachloroethylene Concentrations Well P 26A

Tetrachloroethylene Concentrations Well P 26B

Tetrachloroethylene Concentrations Well P 26D

Tetrachloroethylene Concentrations Well TBG 1

Tetrachloroethylene Concentrations Well TBG 3

Tetrachloroethylene Concentrations Well TBG 4

Tetrachloroethylene Concentrations Well TBG 5

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Tetrachloroethylene Concentrations Well TBG 5B

Tetrachloroethylene Concentrations Well TBG 6

Tetrachloroethylene Concentrations Well TBG 7

Tetrachloroethylene Concentrations Well TIR 1L

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Tetrachloroethylene Concentrations Well TIR 1M

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Tetrachloroethylene Concentrations Well TIR 2

Tetrachloroethylene Concentrations Well TIR 3B

Tetrachloroethylene Concentrations Well TNX 1D

Tetrachloroethylene Concentrations

Tetrachloroethylene Concentrations Well TNX 3D

Tetrachloroethylene Concentrations Well TNX 4D

Tetrachloroethylene Concentrations Well TNX 5D

Tetrachloroethylene Concentrations Well TNX 6D

Tetrachloroethylene Concentrations Well TNX 8D

Tetrachloroethylene Concentrations Well TNX 9D

Tetrachloroethylene Concentrations Well TNX 10D

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Tetrachloroethylene Concentrations Well TNX 16D

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Tetrachloroethylene Concentrations Well TNX 26D

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Tetrachloroethylene Concentrations Well XSB 1D

Tetrachloroethylene Concentrations Well XSB 2D

Tetrachloroethylene Concentrations Well XSB 3A

Tetrachloroethylene Concentrations Well XSB 4D

Tetrachloroethylene Concentrations Well XSB 5A

Tetrachloroethylene Concentrations Well YSB 1A

Tetrachloroethylene Concentrations Well YSB 3A

Tetrachloroethylene Concentrations Well YSB 4A

Trichloroethylene Concentrations Well P 26A

Trichloroethylene Concentrations Well P 26B

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Trichloroethylene Concentrations Well TIR 1M

Trichloroethylene Concentrations Well TIR 1U

Trichloroethylene Concentrations Well TIR 2

Trichloroethylene Concentrations Well TIR 3B

Trichloroethylene Concentrations Well TNX 1D

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Trichloroethylene Concentrations Well TNX 3D

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Trichloroethylene Concentrations Well TNX 6D

Trichloroethylene Concentrations Well TNX 7D

Trichloroethylene Concentrations Well TNX 8D

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Trichloroethylene Concentrations Well TNX 26D

Trichloroethylene Concentrations Well TNX 27D

Trichloroethylene Concentrations Well TRW 1

Trichloroethylene Concentrations Well TRW 2

Trichloroethylene Concentrations Well TRW 3

Trichloroethylene Concentrations Well TRW 4

Trichloroethylene Concentrations Well XSB 1A

Trichloroethylene Concentrations Well XSB 1B

Trichloroethylene Concentrations Well XSB 1D

Trichloroethylene Concentrations Well XSB 2D

Trichloroethylene Concentrations Well XSB 3A

Trichloroethylene Concentrations Well XSB 4D

Trichloroethylene Concentrations Well XSB 5A

Trichloroethylene Concentrations Well YSB 1A

Trichloroethylene Concentrations Well YSB 2A

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Appendix G

Hydrographs

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Hydrograph Well Cluster P 26

Hydrograph Well TBG 1

Hydrograph Well TBG 3

Hydrograph
Well TBG 4

Hydrograph Well Cluster TBG 5

Hydrograph Well TBG 6

Hydrograph Well TBG 7

Hydrograph Well TIR 1L

Hydrograph Well TIR 1M

Hydrograph Well TIR 1U

—◆— TIR 1U

Hydrograph Well TIR 2

Hydrograph Well TIR 3B

—◆— TIR 3B

Hydrograph Well TNX 1D

Hydrograph
Well TNX 2D

Hydrograph Well TNX 3D

Hydrograph Well TNX 4D

Hydrograph Well TNX 5D

Hydrograph Well TNX 6D

Hydrograph Well TNX 7D

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Well TNX 14D

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Hydrograph Well TNX 19D

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Hydrograph Well TNX 20D

Hydrograph Well TNX 21D

Hydrograph Well TNX 22D

Hydrograph Well TNX 23D

Hydrograph Well TNX 24D

Hydrograph Well TNX 26D

Hydrograph Well TNX 27D

Hydrograph Well TRW 1

Hydrograph Well TRW 2

—●— TRW 2

Hydrograph Well TRW 3

Hydrograph Well TRW 4

Hydrograph Well Cluster XSB 1

Hydrograph Well XSB 2D

Hydrograph Well XSB 3A

Hydrograph Well XSB 4D

Hydrograph Well XSB 5A

Hydrograph Well YSB 1A

Hydrograph Well YSB 2A

Hydrograph Well YSB 4A