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**M-AREA AND METALLURGICAL
LABORATORY HAZARDOUS WASTE
MANAGEMENT FACILITIES
GROUNDWATER MONITORING AND
CORRECTIVE-ACTION REPORT (U)**

THIRD AND FOURTH QUARTERS 1996

VOLUME I

Publication Date: March 1997

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Controlled Nuclear Information

Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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

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air stripper
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trichloroethylene

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Executive Summary

This report describes the groundwater monitoring and corrective-action program at the M-Area Hazardous Waste Management Facility (HWMF) and the Metallurgical Laboratory (Met Lab) HWMF at the Savannah River Site (SRS) during 1996. This program is required by South Carolina Hazardous Waste Permit SC1-890-008-989 and Section 264.100(g) of the South Carolina Hazardous Waste Management Regulations. Report requirements are described in the 1995 RCRA Renewal Permit, effective October 5, 1995, Section IIIB.H.11.b for the M-Area HWMF and Section IIIG.H.11.b for the Met Lab HWMF. Program activities are summarized below.

- Sampling to determine groundwater constituents was conducted during first and third quarters 1996 at M-Area HWMF and Met Lab point-of-compliance (POC), background, and plume definition wells. M-Area HWMF recovery wells were sampled monthly.
- Forty of the 41 POC wells at the M-Area HWMF were sampled for constituents listed in Appendix IIIB-A of the 1995 RCRA Renewal Permit. Cyanide, 1,1-dichloroethane, 1,1-dichloroethylene, lead, 1,1,2,2-tetrachloroethane, tetrachloroethylene, 1,1,1-trichloroethane, or trichloroethylene exceeded the Appendix IIIB-A Groundwater Protection Standard (GWPS) and aluminum, chloride, chromium, gross alpha, manganese, nitrate, nonvolatile beta, sodium, sulfate, total alpha-emitting radium, or total phosphates exceeded the Monitoring Constituents Standard (MCS) in one or more of the wells. Aluminum, nitrate, sodium, tetrachloroethylene, and trichloroethylene exceeded standards most frequently. Aluminum was elevated in 17 wells, nitrate was elevated in 27 wells, sodium was elevated in 22 wells, tetrachloroethylene was elevated in 31 wells, and trichloroethylene was elevated in 37 wells. (See the *Compliance Monitoring Results* subsection and Tables D-2 and D-9, Appendix D, Volume I.)
- All 6 background wells at the M-Area HWMF were sampled during third quarter 1996. Well MSB 29D contained an elevated level of total alpha-emitting radium. None of the other background wells contained elevated constituents. (See the *Corrective-Action Monitoring Results* subsection and Table D-3, Appendix D, Volume I.)
- Lead, tetrachloroethylene, or trichloroethylene exceeded the GWPS and aluminum, chloride, manganese, nitrate, sodium, sulfate, total alpha-emitting radium, or total phosphates exceeded the MCS in one or more of the plume definition wells at the M-Area HWMF during third quarter 1996. Elevated concentrations of aluminum, tetrachloroethylene, and trichloroethylene occurred most frequently. (See the *Corrective-Action Monitoring Results* subsection and Table D-3, Appendix D, Volume I.)
- Monthly sampling events were scheduled for each recovery well during the second half of 1996. Eighteen sampling events did not occur because the pumps were off. Tetrachloroethylene and trichloroethylene exceeded the GWPS in most of the successfully sampled recovery wells during this period. (See the *Corrective-Action Monitoring Results* subsection and Tables D-5a, b, and c, Appendix D, Volume I.)
- All 14 of the POC wells at the Met Lab HWMF were sampled for constituents listed in Appendix IIIG-A of the 1995 RCRA Renewal Permit. Acetone, 1,1-dichloroethane, tetrachloroethylene, or trichloroethylene exceeded the Appendix IIIG-A GWPS and iron, nonvolatile beta, sodium, sulfate, total alpha-emitting radium, or total organic halogens exceeded the MCS in one or more of the wells. Sodium, sulfate, and trichloroethylene exceeded standards most frequently. Sodium was elevated in 10 wells, sulfate was elevated in 9 wells, and trichloroethylene was elevated in 5 wells. (See the *Compliance Monitoring Results* subsection and Tables D-6 and D-10, Appendix D, Volume I.)

- All 8 of the background wells at the Met Lab HWMF were sampled during first quarter 1996. The background wells contained one occurrence each of sodium, sulfate, or total alpha-emitting radium that exceeded the standards. (See the *Corrective-Action Monitoring Results* subsection and Table D-7, Appendix D, Volume I.)
- All 8 of the plume definition wells at the Met Lab HWMF were sampled during first quarter 1996. Acetate, 1,1-dichloroethane, lead, tetrachloroethylene, or trichloroethylene exceeded the GWPS and chloride, iron, sodium, total organic halogens, or total phosphates exceeded the MCS in one or more of the wells. (See the *Corrective-Action Monitoring Results* subsection and Table D-8, Appendix D, Volume I.)
- During 1996, the M-1 air stripper removed 13,089 lbs of solvent from the groundwater beneath the M-Area HWMF. (See the *Air Stripper Performance* subsection and Table D-15, Appendix D, Volume I.)
- During 1996, the A-1 air stripper removed 80 lbs of solvent from the groundwater beneath the M-Area HWMF. The A-1 air stripper was decommissioned in June 1996. (See the *Air Stripper Performance* subsection and Table D-16, Appendix D, Volume I.)
- During 1996, the A-2 air stripper removed 1,018 lbs of solvent from the groundwater beneath the M-Area HWMF. The A-2 air stripper was upgraded in June 1996 to add the well influent from RWM-12. (See the *Air Stripper Performance* subsection and Table D-17, Appendix D, Volume I.)
- During 1996, the Soil Vacuum Extraction Unit (SVEU) Vadose Zone Unit 782-3M removed 13,780 lbs of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-18, Appendix D, Volume I.)
- During 1996, the SVEU Vadose Zone Unit 782-4M removed 12,881 lbs of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-19, Appendix D, Volume I.)
- During 1996, the SVEU Vadose Zone Unit 782-5M removed 9,287 lbs of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-20, Appendix D, Volume I.)
- During 1996, the SVEU Vadose Zone Unit 782-6M removed 15,256 lbs of solvent. (See the *Vadose Zone Unit Performance* subsection and Tables D-21, Appendix D, Volume I.)
- During 1996, the SVEU Vadose Zone Unit (IDU) 782-7M removed 4,188 lbs of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-22, Appendix D, Volume I.)

Introduction

As directed by the 1995 RCRA Renewal Permit (SCDHEC, 1995), this report includes information on groundwater monitoring and corrective action at both the M-Area Hazardous Waste Management Facility (HWMF) and the Metallurgical Laboratory Hazardous Waste Management Facility (Met Lab HWMF).

Description of Facilities

M-Area HWMF

The M-Area HWMF, located in the northwest portion of the Savannah River Site (SRS) (Figure 1, Appendix C, Volume I), consists of the M-Area Settling Basin; a seepage area, overflow ditch, and inlet process sewer line; and Lost Lake, a shallow upland depression.

The unlined settling basin operated from 1958 until 1985, receiving wastewater that contained volatile organic solvents used for metal degreasing as well as chemical constituents and depleted uranium from fuel fabrication processes in M Area. The underground process sewer line transported M-Area process wastewaters to the basin. Water periodically overflowed from the basin through the ditch to the seepage area adjacent to the ditch and to Lost Lake.

Because of the hazardous nature of the constituents released to the environment during operation of the basin, the M-Area HWMF is subject to the requirements of the Resource Conservation and Recovery Act (RCRA). Currently, the facility is operating under the 1995 RCRA Renewal Permit (South Carolina Hazardous Waste Permit SC1-890-008-989) (SCDHEC, 1995). A brief history of the M-Area HWMF compliance and post-closure programs is located in the *Monitoring and Corrective-Action Program Assessment* section of this report.

The A/M-Areas corrective-action program addresses four sectors of the contaminant plume that are based on geography, subsurface conditions, and ongoing actions.

- The **central sector** is remediated by the M-1 air stripper recovery system. The majority of the concentrated contaminant plume and the primary remediation efforts are in this sector. The area includes the solvent storage and handling areas, the M-Area process sewer line, the M-Area settling basin, and the A-014 outfall areas.
- The **northern sector** is outside the influence of the M-1 air stripper recovery system. This sector, which includes the Savannah River Laboratory Seepage Basin, the A-001 outfall, and part of the Savannah River Technology Center, is remediated by the A-2 air stripper recovery system.
- The **western sector** is west of the central sector and outside the M-1 air stripper zone of influence. Dense nonaqueous phase liquid (DNAPL) may have migrated and dispersed into this area.
- The **southern sector** encompasses the contaminant plume south of the central sector outside the M-1 air stripper zone of influence. Groundwater flows south from this sector towards Upper Three Runs Creek and is influenced by the central and western sectors. DNAPL may have migrated and dispersed into this area.

Met Lab HWMF

The Met Lab HWMF is located in the eastern portion of the central sector of A/M Areas (Figure 1, Appendix C). The facility consists of the unlined Metallurgical Laboratory Basin, the abandoned portion of the influent process sewer line, an associated Carolina bay, and a drainage outfall to the bay.

Because of the hazardous nature of the constituents released to the environment during operation of the facility, the Met Lab HWMF is subject to the requirements of RCRA. Currently, the facility is operating under the 1995 RCRA Renewal Permit (South Carolina Hazardous Waste Permit SC1-890-008-989) (SCDHEC, 1995).

Compliance Monitoring Program

M-Area HWMF

Requirements and Standards

Point-of-compliance (POC) wells (Figure 2, Appendix C, Volume I) monitor groundwater quality at the M-Area HWMF as mandated by RCRA and associated South Carolina regulations. Appendix IIIB-C in the 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the following monitoring regimen:

- quarterly monitoring for synchronous water elevations
- quarterly monitoring of new wells for one year for Groundwater Protection Standard (GWPS) constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIB-A of the permit
- semiannual monitoring for pH, specific conductance, temperature, and GWPS constituents (except polychlorinated biphenyls [PCBs]); only POC wells MSB 1D, 2D, 4D, 57D, 58D, 59D, and 60D are monitored for PCBs
- annual monitoring for gross alpha, nonvolatile beta, total alpha-emitting radium, and the inorganic monitoring constituents listed in Section II, Appendix IIIB-A, of the permit
- monitoring during the third quarter of each year of at least 20 percent of the POC wells for Appendix IX constituents (SCDHEC, 1994)

Analytical results are compared to the GWPS as defined in Appendix IIIB-A of the permit (SCDHEC, 1995) and the Monitoring Constituents Standard (MCS), which is derived from the former GWPS as defined in WSRC (1994), standard background concentrations as defined in the 1987 Part B permit (WSRC, 1987), or drinking water standards (EPA, 1993a, 1993b) (Appendix A, Volume I). Standard background concentrations were determined during the assessment monitoring program, using groundwater samples from background wells MSB 29B, 29C, 29D, 43A, 43B, and 43D (WSRC, 1987, 1994). Results also are compared to flagging criteria established by the SRS Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) (Appendix B, Volume I).

The SRS Environmental Restoration Department (ERD) reports the monitoring results to the South Carolina Department of Health and Environmental Control (SCDHEC) as required by the 1995 RCRA Renewal Permit (SCDHEC, 1995) and Section 264.100(g) of the South Carolina Hazardous Waste Management Regulations (SCDHEC, 1994).

Point-of-Compliance Well Network

Currently, the M-Area HWMF POC well network is composed of 41 wells: MSB 1B, 1C, 1CC, 1D, 2B, 2C, 2D, 3B, 3C, 3D, 4B, 4C, 4D, 5A, 5B, 5C, 6A, 6B, 6C, 7A, 7B, 7C, 8A, 8B, 8C, 13A, 13CC, 13D, 39A, 57D, 58D, 59D, 60D, 62B, 62C, 62D, 63B, 63C, 63D, 64C, and 64D.

This network developed as follows:

- Wells MSB 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 13A, 13B, and 13C, installed in the early 1980s, were approved by SCDHEC as the original POC wells.
- Well MSB 22 was approved by SCDHEC for interim sampling to replace well MSB 3A.

- Sampling at wells MSB 1A, 2A, 3A, 4A, and 13C was stopped in 1990 due to declining water levels at the M-Area HWMF resulting from basin closure and the recovery system operation.
- Sampling of well MSB 22 as a POC well was stopped in 1991.
- Wells MSB 1B, 1C, 1CC, 1D, 2B, 2C, 2D, 3B, 3C, 3D, 4B, 4C, 4D, 5B, 5C, 6B, 6C, 7B, 7C, 8B, 8C, 13CC, 13D, 57D, 58D, 59D, 60D, 62B, 62C, 62D, 63B, 63C, 63D, 64B, 64C, and 64D were installed in 1990 (MSB 1D, 2D, 3D, 4D, and 13D replaced wells MSB 1A, 2A, 3A, 4A, and 13C).
- Well MSB 13B was removed from the POC well network beginning third quarter 1994.
- Well MSB 39A was designated a POC well, and well MSB 64B, formerly a POC well, was designated a plume definition well in the new permit (SCDHEC, 1995).

Met Lab HWMF

Requirements and Standards

POC wells (Figure 2, Appendix C, Volume I) monitor the groundwater quality at the Met Lab HWMF as mandated by RCRA and associated South Carolina regulations. Appendix IIIG-C of the 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the following monitoring regimen:

- quarterly monitoring for synchronous water elevations at all POC wells listed in Appendix IIIG-B of the permit
- quarterly monitoring of new POC wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIG-A of the permit
- semiannual monitoring for inorganic monitoring constituents, pH, specific conductance, temperature, and GWPS constituents at all POC wells listed in Appendix IIIG-B of the permit
- annual monitoring for gross alpha, nonvolatile beta, and total alpha-emitting radium at all POC wells listed in Appendix IIIG-B of the permit
- monitoring during the third quarter of each year of at least 40 percent of the POC wells for Appendix IX constituents (SCDHEC, 1994)

Analytical results are compared to the GWPS or MCS as defined in Appendix IIIG-A of the permit (SCDHEC, 1995) (Appendix A). Standard background concentrations were determined during the M-Area assessment monitoring program using groundwater samples from background wells MSB 29B, 29C, 29D, 43A, 43B, and 43D (WSRC, 1987, 1994b). Results also are compared to flagging criteria established by the EPD/EMS (Appendix B).

ERD reports the monitoring results to SCDHEC to meet the requirements of the renewal permit (SCDHEC, 1995) and the South Carolina Hazardous Waste Management Regulations (SCDHEC, 1994).

Point-of-Compliance Well Network

Currently, the Met Lab HWMF POC well network is composed of 14 wells:

- 7 M-Area Aquifer Zone wells: AMB 4D, 5, 6, 8D, 9D, 10D, 16D
- 2 Upper Lost Lake Aquifer Zone wells: AMB 18C, 19C
- 1 Lower Lost Lake Aquifer Zone well: AMB 10B
- 4 Middle Sand Aquifer Zone of the Crouch Branch Confining Unit (CBCU) wells: AMB 4A, 10A, 17A, 18A

Corrective-Action Monitoring Program

M-Area HWMF

Requirements and Standards

Data from background, plume definition, and recovery wells (Figures 3 and 4, Appendix C, Volume I) are used to assess the effectiveness of the corrective-action program for the M-Area HWMF. Background and plume definition wells monitor the horizontal and vertical extent of groundwater contamination, groundwater flow rates and directions, and groundwater quality. Recovery wells pump contaminated groundwater to air strippers, which remove volatile organic contaminants from the water before it is returned to the ground.

The 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the following monitoring regimen for these wells to meet RCRA requirements:

Background wells

- quarterly monitoring for synchronous water elevations
- quarterly monitoring of new wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIB-A of the permit
- semiannual monitoring for pH, specific conductance, temperature, and GWPS constituents (except PCBs)
- annual monitoring for gross alpha, nonvolatile beta, total alpha-emitting radium, and the inorganic monitoring constituents listed in Section II, Appendix IIIB-A, of the permit

Plume definition wells

- quarterly monitoring for synchronous water elevations
- quarterly monitoring of new wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIB-A of the permit
- semiannual monitoring for pH, specific conductance, temperature, and GWPS constituents (except PCBs); selected plume definition wells are monitored semiannually for PCBs
- annual monitoring for gross alpha, nonvolatile beta, total alpha-emitting radium, and the inorganic monitoring constituents listed in Section II, Appendix IIIB-A, of the permit

Recovery wells

- monthly monitoring for water elevations
- monthly monitoring for pH, specific conductance, temperature, and the organic GWPS constituents (except PCBs)
- semiannual monitoring for PCBs at recovery wells RWM 1, 6, and 10

Piezometers

- quarterly monitoring for water elevations

Analytical results for background, plume definition, and recovery wells are compared to standards and reported to SCDHEC as described for the POC wells.

Corrective-Action Well Network

The network of background, plume definition, and recovery wells and piezometers currently consists of the following:

Background wells (6 total)

MSB 29B, 29C, 29D, 43A, 43B, 43D

Plume definition wells (226 total)

3 wells of the ABP series, 3 wells of the AC series, 24 wells of the AMB series, 2 wells of the AOB series, 19 wells of the ASB series, 3 wells of the MCB series, 166 wells of the MSB series, 6 wells of the SRW series

Recovery wells (17 total)

RWM 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13B, 13C, 14B, 14C, 15B

Piezometers (127 total)

9 wells of the ABP series, 1 well of the ABW series, 3 wells of the AC series, 4 wells of the ACB series, 1 well of the AMB series, 1 well of the AOB series, 4 wells of the ARP series, 2 wells of the ASB series, 6 wells of the MCB series, 63 wells of the MSB series, 33 wells of the SRW series

Met Lab HWMF

Requirements and Standards

Data from background and plume definition wells (Figure 3, Appendix C, Volume I) are used to assess the effectiveness of the corrective-action program for the Met Lab HWMF. Background and plume definition wells monitor the horizontal and vertical extent of groundwater contamination, groundwater flow rates and directions, and groundwater quality.

Appendix IIIG-C of the 1995 RCRA Renewal Permit (SCDHEC, 1995) specifies the following monitoring regimen:

- quarterly monitoring for synchronous water elevations at all background and plume definition wells listed in Appendix IIIG-B of the permit
- quarterly monitoring of new background and plume definition wells for one year for GWPS constituents, inorganic monitoring constituents, and field parameters listed in Appendix IIIG-A of the permit
- semiannual monitoring for inorganic monitoring constituents, pH, specific conductance, temperature, and GWPS constituents at all background and plume definition wells listed in Appendix IIIG-B of the permit
- annual monitoring for gross alpha, nonvolatile beta, and total alpha-emitting radium at all background and plume definition wells listed in Appendix IIIG-B of the permit

Analytical results for background and plume definition wells are compared to standards and reported to SCDHEC as described for POC wells.

Corrective-Action Well Network

The network of background and plume definition wells currently consists of the following wells:

Background wells (8 total)

- 4 M-Area Aquifer Zone wells: AMB 11D, 12D; MSB 29D, 43D
- 2 Upper Lost Lake Aquifer Zone wells: MSB 29C, 43B
- 2 Lower Lost Lake Aquifer Zone wells: MSB 29B, 43A

Plume definition wells (8 total)

- 3 M-Area Aquifer Zone wells: AMB 7, 14D, 15D
- 1 Upper Lost Lake Aquifer Zone well: AMB 11B

- 2 Lower Lost Lake Aquifer Zone wells: AMB 4B, 7B
- 2 Middle Sand Aquifer Zone of the CBCU wells: AMB 7A, 13AR

Sampling and Results

Groundwater Sampling

During third and fourth quarters 1996, synchronous water elevations were measured on September 16–20, 1996, and December 11–17, 1996, respectively. Synchronous water levels for each quarter of 1996 are presented in Table D-1 (Appendix D, Volume I).

The sampling procedure for wells with pumps (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 at 10-minute intervals, are within 10 percent of each other.

If a well pumps dry before two well volumes are purged or before stabilization is achieved, it must be revisited within 24 hours for the data to be considered from a single sampling event. On the second visit within 24 hours, samples are taken without purging or stability measurements; thus, these samples may not be representative of the groundwater quality. Tables D-1 through D-7 (Appendix D, Volume I) show the number of well volumes purged for each well. The well volumes purged for some wells may be less than 2 because of rounding down in the calculations.

Variable-speed pumps are installed in wells that have histories of elevated metals and in some new wells. Samples from these wells are collected at a slower rate to minimize turbidity, which has been associated with elevated metals levels. Currently, variable-speed pumps are installed in wells AMB 14D, 15D, 16D, 18C, and 19C; MCB 5C; MSB 32B, 32C, 87B, 87C, 88B, 88C, 88D, 89B, and 89C; and SRW 1, 17C, and 17D. Samples from wells MSB 11E, 15C, 16C, 17C, 37D, 40D, 42D, 44C, 45C, and 46C are collected using an open-bucket bailer. The remaining wells, except the recovery wells, have single-speed centrifugal downhole pumps. The recovery wells have pumps that run continuously. Pump types for all wells are indicated in Tables D-1 through D-7 (Appendix D, Volume I).

Samples were collected by RCS Corporation of Aiken, South Carolina, and analyzed by General Engineering Laboratories of Charleston, South Carolina (South Carolina certification number 10120), or Roy F. Weston, Inc., of Lionville, Pennsylvania. Samples are treated as specified in the 1995 RCRA Renewal Permit (SCDHEC, 1995) and the Westinghouse Savannah River Company Quality Assurance Plan (WSRC, 1990).

A record of well installations, replacements, and abandonments is found in the EPD/EMS well inventory (EPD/EMS, 1996). The aquifer zones monitored by the POC well networks, and identified in this report in the *Key to Reading the Tables* section of Appendix D (Volume I), are defined in Ehrke et al. (1995).

Analytical results that exceeded the GWPS or MCS (Appendix A) or the SRS flagging criteria (Appendix B) during third quarter 1996 are presented in this report (Tables D-2 through D-8, Appendix D). Previous sampling events in first and third quarters 1995 and first quarter 1996 also are included to fulfill permit requirement IIIB.H.11.b(i) for M Area and IIIG.H.11.b(i) for Met Lab. For simplicity, results that either equaled or exceeded standards are described as *elevated*, *exceeding* standards, or *above* standards.

M-Area HWMF

Groundwater sampling to determine water quality was conducted first and third quarters 1996 at POC, background, and plume definition wells and monthly at recovery wells. Sampling at the new recovery wells RWM 13B, 13C, 14B, 14C, and 15B began in June 1996.

Sampling Problems

Tables D-2 through D-5 (Appendix D, Volume I) provide sampling codes (defined in the *Key to Reading the Tables* section of Appendix D, Volume I) that describe unusual sampling events for the M-Area wells.

Well MSB 3D contains DNAPL with dissolved PCBs in sediments trapped in the well sump (memorandum SWE-ERG-93-0966, M. A. Ebra, SRS, to J. W. Cook and J. V. Odum, SRS, December 7, 1993). This well is no longer sampled regularly for groundwater quality because of waste disposal issues.

Unusual sampling events during third and fourth quarters 1996 for the remaining wells are summarized as follows:

- No pump or broken pump prevented sampling: MCB 13C, MSB 3B, MSB 78DR
- Broken or missing vial prevented complete sampling: ASB 9, MSB 46A, MSB 48C, MSB 49B
- Volume purged by bucket due to broken flowmeter: ARP 5D, MSB 2C, MSB 43D, MSB 46A
- Insufficient water prevented complete sampling: MSB 15C
- Not sampled due to turbidity: ABP 9B, ABP 10D
- Not sampled because well not running in July: RWM 2, RWM 7, RWM 12
- Not sampled because well not running in August: RWM 2, RWM 7, RWM 8, RWM 12
- Not sampled because well not running in September: RWM 2, RWM 7, RWM 8, RWM 12, RWM 13B, RWM 13C, RWM 14B, RWM 14C, RWM 15 B
- Not sampled because well not running in October: RWM 12
- Metals samples not taken due to high turbidity: ABP 9D, MSB 36D
- Well was dry: MSB 46C, MSB 48D
- Went dry during purging and was sampled after it recovered: ABP 8C, AMB 4A, AMB 7, AMB 10A, AMB 13AR, AMB 15D, ASB 5AR, ASB 6TA, MCB 7C, MSB 1C, MSB 1D, MSB 2B, MSB 2C, MSB 3C, MSB 13B, MSB 13D, MSB 15D, MSB 16C, MSB 20C, MSB 24, MSB 30AA, MSB 36D, MSB 38C, MSB 39A, MSB 40C, MSB 46A, MSB 49D, MSB 55HC, MSB 57D, MSB 58D, MSB 59D, MSB 60D, MSB 62D, MSB 63D, MSB 65D, MSB 70D, MSB 74C, MSB 74D, MSB 75C, MSB 76C, MSB 82A, MSB 83D, MSB 84A, MSB 85TA, and SRW 16A. The samples from these wells may not be representative of groundwater quality at the M-Area HWMF.

Met Lab HWMF

Groundwater sampling to determine water quality was conducted during third quarter 1996 at POC, background, and plume definition wells.

Sampling Problems

Tables D-6 through D-8 provide sampling codes (defined in *Key to Reading the Tables*, Appendix D) that describe unusual sampling events for the Met Lab wells.

Unusual sampling events during third quarter 1996 are summarized as follows:

- Broken bottle prevented complete sampling: AMB 18A
- Went dry during purging and was sampled after it recovered: AMB 4A, AMB 7, AMB 10A, AMB 13AR, and AMB 15D. The samples from these wells may not be representative of groundwater quality at the Met Lab HWMF.

Field and Analytical Results

The *Key to Reading the Tables* section of Appendix D (Volume I) defines abbreviations used in the data tables and provides discussions of holding times, data rounding, and data qualification. The section includes a description of the result modifiers used in Appendix D. The modifiers help define analytical accuracy and precision. Appendix E (Volume I) provides a general assessment of the quality and usability of the data.

M-Area HWMF

Tables D-2 through D-5 (Appendix D) present the field and analytical results for samples collected from M-Area POC, background, plume definition, and recovery wells, respectively, for first and third quarters 1995 and first and third quarters 1996. The tables identify the constituents that exceeded the standards in Appendix IIIB-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995) (Appendix A) all four quarters and the SRS flagging criteria (Appendix B) during third quarter 1996. Table D-9 summarizes the constituents that exceeded GWPS or MCS in M-Area POC wells during first and third quarters 1996.

Constituent results in Tables D-2 through D-5 that appear to equal the standards in Appendix A but are not marked in the *ST* (exceeded standard) column are below the standards in the database. Database results, the results that are compared to the standards, have more significant digits than the results given in this report. Apparent discrepancies are from the rounding of reported results.

Tables D-2 through D-5 also show the analytical laboratories that conducted the analyses, the dilution factors used in the analyses, the analyses that received modifiers or that exceeded the EPA-approved holding times during third quarter 1996, and information concerning the wells.

Met Lab HWMF

Tables D-6 through D-8 (Appendix D) present the field and analytical results for samples collected from Met Lab POC, background, and plume definition wells, respectively, for first and third quarters 1995 and first and third quarters 1996. The tables identify the constituents that exceeded the standards in Appendix IIIG-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995) (Appendix A) all four quarters and the SRS flagging criteria (Appendix B) during third quarter 1996. Table D-10 summarizes the constituents that exceeded GWPS or MCS in Met Lab HWMF POC wells during first and third quarters 1996.

Constituent results in Tables D-6 through D-8 that appear to equal the standards in Appendix A but are not marked in the *ST* (exceeded standard) column are below the standards in the database. Database results, the results that are compared to the standards, have more significant digits than the results given in this report. Apparent discrepancies are from the rounding of reported results.

Tables D-6 through D-8 also show the analytical laboratories that conducted the analyses, the dilution factors used in the analyses, the analyses that received modifiers or that exceeded the EPA-approved holding times during third quarter 1996, and information concerning the wells.

Appendix IX Results

During the third quarter of each year, samples from 20 percent of the POC wells are analyzed for Appendix IX constituents (SCHEC, 1994). Constituents detected above their sample quantitative limits are re-analyzed in subsequent quarters and statistically compared to background concentrations to determine if they are true contaminants or artifacts of the analyses.

During third quarter 1996, POC wells MSB 1B, 1CC, 1D, 8C, 13A, 39A, 60D, and 64D were analyzed for Appendix IX constituents. Analytes that exceeded their sample quantitation limits are reported in Table D-11 (Appendix D, Volume I). All results reported in Table D-11 for the

non-compliance Appendix IX constituents at the POC wells were qualified results and/or common laboratory contaminants. No confirmation sampling will be performed on the reported constituents.

Hydrogeologic Assessment

The hydrogeologic system in A/M Areas is evaluated using piezometric and potentiometric maps and cross sections (Maps 1 through 16, Appendix H, Volume III) to determine groundwater flow rates and directions and precipitation data, hydrographs (Appendix G, Volume II), and zone of capture maps (Appendix H, Maps 17 through 20) to determine the effects of the recovery well system.

The piezometric and potentiometric maps for this report were constructed for third and fourth quarters 1996 using synchronous water elevations. Maps were constructed for each of the aquifer zones described in Ehrke et al. (1995). Aquifer zones are identified in this report in the *Key to Reading the Tables* section of Appendix D (Volume I). Map directions are oriented to true north.

Groundwater Flow Directions and Rates

Horizontal Flow Directions

- Horizontal gradients in the M-Area Aquifer Zone (Maps 1 and 6, Appendix H, Volume III) are low and variable. The natural stratigraphy, variability in recharge, and the removal of water by wells RWM 3, 6, 9, 10, and 11 produce the mounds and depressions found on the piezometric surface. South of the M-Area HWMF, near the Miscellaneous Chemical Basin, a water-table divide appears to divert flow naturally to the southwest and east.
- Potentiometric contours for the Upper Lost Lake Aquifer Zone (Maps 2 and 7, Appendix H, Volume III) indicate a semi-radial flow pattern, with the highest water elevations located north of A/M Areas, and flow away from this area to the southwest and south. Near the M-Area HWMF and A-014 outfall, flow is directed to the south. A mound in the potentiometric surface at the M-Area HWMF may result from local recharge from the M-Area Aquifer Zone at this location, possibly enhanced by recovery system water-level drawdown to the north. Another mound in the potentiometric surface located north of the Metallurgical Laboratory Seepage Basin may be the result of pumping by recovery wells RWM 12 to the northeast and RWM 9 and 11 to the southwest.
- Flow beneath the Lower Lost Lake Aquifer Zone (Maps 3 and 8, Appendix H, Volume III) is toward the south. The most prominent feature is a north-south oriented trough beneath the M-Area HWMF. The potentiometric depression that occurs near the recovery wells surrounding the M-Area HWMF may result from the recovery well system.
- The flow direction in the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit (CBCU) (Maps 4 and 9, Appendix H, Volume III) is toward the south. The effects of pumping in the overlying Upper and Lower Lost Lake Aquifer Zones cause a slight depression beneath the M-Area HWMF.
- Flow in the Crouch Branch Aquifer Zone (Maps 5 and 10, Appendix H, Volume III) is from the south to the southwest, apparently controlled by regional discharge to the Savannah River.

Horizontal Flow Rates

Horizontal groundwater flow rates are calculated 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 M-Area Aquifer Zone, the Upper Lost Lake Aquifer Zone, the Lower Lost Lake Aquifer Zone, the Middle Sand Aquifer Zone of the CBCU, and the Crouch Branch Aquifer Zone are 27, 45, 45, 45, and 40 ft/day, respectively; the effective porosity value for each is 0.20 (Lewis and Aadland, 1992). The value dh is the difference in head, and dl is the length of the flow path shown on the map. The ratio dh/dl is the horizontal gradient. Gradient, flow rate per day, and flow rate per year were each determined to two significant digits in the calculations.

Flow-rate estimates vary depending on the vertical gradient between wells, the size of the area under consideration, the number of data points, and the length and location of the flow path. Because flow rates are based on inferred or estimated parameters, rate estimates should be considered accurate to an order of magnitude only.

The estimated groundwater flow rates for third and fourth quarters 1996 (Table D-12, Appendix D, Volume I) were as follows:

Third Quarter 1996

- M-Area Aquifer Zone: 140 to 400 ft/year
- Upper Lost Lake Aquifer Zone: 220 to 550 ft/year
- Lower Lost Lake Aquifer Zone: 300 ft/year
- Middle Sand Aquifer Zone of the CBCU: 340 ft/year
- Crouch Branch Aquifer Zone: 280 ft/year

Fourth Quarter 1996

- M-Area Aquifer Zone: 140 to 400 ft/year
- Upper Lost Lake Aquifer Zone: 170 to 510 ft/year
- Lower Lost Lake Aquifer Zone: 280 ft/year
- Middle Sand Aquifer Zone of the CBCU: 350 ft/year
- Crouch Branch Aquifer Zone: 280 ft/year

These rates are within the same order of magnitude as the flow rates for previous quarters.

Recharge and Water Elevation Changes

Precipitation measurements for the A/M Areas during third and fourth quarters 1996 are provided below.

Table 1. A/M-Areas Precipitation Data for Third and Fourth Quarters 1996

	Monthly Precipitation (in.)	Historical Average 1952-1996 (in.)
July	5.19	5.20
August	4.83	4.99
September	4.05	3.87
October	1.95	3.08
November	1.17	2.66
December	2.69	3.54
Six-month total	19.88	23.34

Hydrographs showing water-elevation changes for M-Area HWMF and Met Lab HWMF monitoring wells over time are provided in Appendix G (Volume II). Monitoring wells located near recovery wells generally reflect water-level decline caused by the recovery well system. Water elevations in monitoring wells away from the recovery wells system show variations related to rainfall, proximity to streams and other physical features, and other factors.

Figures 6 through 9 (Appendix C, Volume I) show water-elevation drawdowns in the different aquifer zones caused by the operation of the recovery well system from first quarter 1985 to fourth quarter 1996. First quarter 1985 water elevations represent conditions prior to pumping by the recovery well system. Fourth quarter 1996 water elevations represent conditions after 11 years of recovery system operation. The results are described below:

- The water-elevation difference map for M-Area Aquifer Zone (Figure 6, Appendix C, Volume I) shows that the areas of greatest declines were near recovery wells RWM 1, 2, 3, 4, 8, and 10. The maximum decline during fourth quarter 1996 was 25.1 ft at well MSB 11D near recovery well RWM 1.
- The areas of greatest water-elevation declines in the Upper Lost Lake Aquifer Zone (Figure 7, Appendix C, Volume I) were at recovery wells RWM 3, 8, and 10. The maximum decline during fourth quarter 1996 was 18.4 ft at well MSB 11C near recovery well RWM 1.
- The water-elevation declines for the Lower Lost Lake Aquifer Zone (Figure 8, Appendix C, Volume I) were greatest near recovery wells RWM 6, 7, and 10. The maximum decline during fourth quarter 1996 was 18.5 ft at well MSB 31B near recovery well RWM 6.
- The maximum water-elevation decline in Middle Sand Aquifer Zone of the CBCU (Figure 9, Appendix C, Volume I) during fourth quarter 1996 was 5.2 ft at well MSB 10A near recovery well RWM 10.

The estimated water-elevation drawdown due to the recovery system in each aquifer zone during fourth quarter 1996 is provided below.

Table 2. Estimated Water-Elevation Drawdown Due to the Recovery Well System during Fourth Quarter 1996

Aquifer Zone	Maximum Water-Elevation Drawdown (ft)	Water-Elevation Drawdown Outside Zone of Capture ^a (ft)	Estimated Drawdown Due to Recovery System (ft)
M-Area	25.1	9.2 ^b	15.9
Upper Lost Lake	18.4	8.8 ^b	09.6
Lower Lost Lake	18.5	7.8 ^c	10.7
Middle Sand of the CBCU	5.2	8.9 ^b	06.3

^a Silverton Road Waste Site.

^b Observed at well cluster SRW 15.

^c Observed at well SRW 13A.

The above estimates were made by subtracting the water-elevation drawdown in each unit in wells outside the influence of the recovery well system (outside the zone of capture) from the maximum water-elevation drawdown in each unit in wells influenced by the recovery well system. The changes in water elevation outside the zone of capture were obtained from measurements from well cluster SRW 15 and well SRW 13A.

Compared to third quarter 1996, average water-elevation drawdowns decreased (water elevations increased) in each aquifer zone during fourth quarter 1996. These changes are shown in the following table.

Table 3. Change in Average Water-Elevation Drawdowns^a (ft) from Third to Fourth Quarter 1996

Aquifer Zone	3Q95	4Q95	Change
M-Area	9.9	9.9	0.0
Upper Lost Lake	10.2	11.2	1.0
Lower Lost Lake	9.9	11.2	1.3
Middle Sand of the CBCU	6.4	7.9	1.5

^a Drawdowns have not been corrected for natural decline.

Effectiveness of the Corrective-Action Program

The effectiveness of the corrective-action program is evaluated by assessing water quality changes and rate of contaminant removal. The duration of the cleanup program is assessed by tracking the time it takes to remove contaminants from the groundwater.

Water Quality Changes

Extent of Contamination

The discussion of the horizontal and vertical extent of contamination addresses the distribution of tetrachloroethylene and trichloroethylene (Maps 21 through 42, Appendix H, Volume III). Tetrachloroethylene, although similar in distribution to trichloroethylene, is usually present in lower concentrations and to a lesser extent. The 5 µg/L contour lines on the isoconcentration maps encompass the areas where the constituent exceeded the GWPS during third quarter 1996.

Contour lines on the isoconcentration maps are solid when the horizontal extent of the constituent was confidently interpreted and dashed when concentration boundaries were uncertain.

M-Area Aquifer Zone

Maps 21 and 22 (Appendix H, Volume III) show constituent distribution in the M-Area Aquifer Zone. The plume generally is limited to areas of known or suspected solvent disposal sites, which include the M-Area HWMF, the Solvent Storage Facility, the A-014 outfall, the Metallurgical Laboratory Seepage Basin, the A-Area Metals Burning Pit and Burning/Rubble Pit, and the Miscellaneous Chemicals Basin.

Upper Lost Lake Aquifer Zone

Maps 23 and 24 (Appendix H, Volume III) show the extent of contamination in the Upper Lost Lake Aquifer Zone. The pattern of contamination in this zone in relation to known point sources is similar to, but more extensive than, the pattern in the M-Area Aquifer Zone. In general, the extent of the plume in this zone is greater in the downgradient direction than in the M-Area Aquifer Zone due to greater horizontal flow rates in both the Upper and Lower Lost Lake Aquifer Zones.

Lower Lost Lake Aquifer Zone

Constituent concentrations in the Lower Lost Lake Aquifer Zone are shown on Maps 25 and 26 (Appendix H, Volume III). The lateral extent of the plume as defined by the 5 µg/L contour is greater in the downgradient directions than in the upper units because the Lower Lost Lake Aquifer Zone has a higher potential for horizontal flow. The 1,000 µg/L contour generally is below suspected sources of contamination.

Middle Sand Aquifer Zone of the CBCU

The distribution of constituents in the Middle Sand Aquifer Zone is shown on Maps 27 and 28 (Appendix H, Volume III). Monitoring is limited in the Middle Sand Aquifer Zone. Constituent concentrations in this zone, as in the overlying zones, are highest near known sources. Contamination in the Middle Sand Aquifer Zone is less extensive beneath the western part of M Area than in overlying zones. Beneath the eastern part of M Area, contamination patterns are similar to patterns in the Lower Lost Lake Aquifer Zone, but contamination is less extensive in the lower zone. A localized detection of PCE (7.7 ppb) has been recorded at well MSB 55B in the Northern Sector of A/M Area. However, the detection may be spurious because there were no surrounding detections in the area. A follow-up on the detection is planned.

Crouch Branch Aquifer Zone

Contaminant concentrations in the Crouch Branch Aquifer Zone are primarily limited to the area beneath SRTC and an area extending from the SRTC north to well MSB 55TA, which is generally upgradient of these facilities (Maps 29 and 30, Appendix H, Volume III). Downward vertical hydraulic gradients from the M-Area Aquifer Zone to the Crouch Branch Aquifer Zone characterize the SRTC area. The presence of a zone of increased transmissivity in the Middle Sand Aquifer Zone, which allows downward flow into the Crouch Branch Aquifer Zone, is indicated by constituent concentrations measured in wells monitoring that portion of the Crouch Branch Aquifer Zone.

The results of a special program conducted to determine the extent of inorganic contamination near the M-Area HWMF were presented in the 1987 annual report (DuPont, 1988). The results indicate that a plume of mobile inorganic constituents is present south-southeast of the M-Area HWMF. The plume is evident in most of the hydrostratigraphic units composing the M-Area Aquifer Zone and appears to have a pattern similar to the trichloroethylene and tetrachloroethylene plumes. Plume maps for the inorganics also were shown in the revised RCRA Part B post-closure care permit application submitted May 31, 1988; they are not presented in this report. Because these constituents are within the more extensive chlorinated solvent plumes, they are addressed by the current corrective-action system or by other measures.

Concentration Changes over Time

Changes in tetrachloroethylene and trichloroethylene concentrations during the past several years in samples from POC and plume definition wells are illustrated in time series plots in Appendix F (Volume II).

Slight changes to the cumulative summations (CUSUM) test were made to correct the process which trended the data from year to year. The wells' analytes of interest were selected and averaged over the year and then statistically compared to the latest quarter (third quarter 1996) for an accurate depiction of trending. Statistical evaluations using the CUSUM test (as described in the 1987 *Annual Monitoring and Corrective-Action Report* [DuPont, 1988]) are provided in Tables D-13 and D-14 (Appendix D, Volume I).

Trending data for the RWM wells is significant in that all the wells on the southern extent of the central A/M area (RWM 7, 8, and 10) show an upward trend for the area. All other recovery wells show downward trends or no overall trends. Trending data for the selected monitoring wells show no clear indication of localized plume movement or removal.

Rate of Contaminant Removal

SRS determines the rate of contaminant removal using mass balance calculations that subtract the concentration of VOCs in the effluent from the concentration of VOCs in the influent. This amount is then multiplied by the number of gallons of water or square feet of air that passes through the stripper column or SVEU during a given period. The results of this technique are described in the *Corrective-Action System Operation and Performance* section.

Corrective-Action System Operation and Performance

Corrective action is accomplished in A/M Areas by pumping contaminated groundwater to two air strippers where volatile organic compounds are removed and by pumping contaminated air, using vacuum extraction, from the vadose zone to five catalytic-oxidation units where the volatile organic compounds are destroyed.

The M-1 air stripper in M Area, fed by 11 recovery wells, began operating in April 1985 and has been operating full scale since September 1985. The A-1 air stripper in A Area, fed by a single recovery well, operated from March 1992 until June 1996 when it was replaced by the A-2 air stripper. The A-2 air stripper is fed by 6 recovery wells in the northern sector. The production catalytic-oxidation unit at the Integrated Demonstration Site (782-7M), fed by a single vapor extraction well, began experimental operation in 1990 and has been in full-scale operation since August 1994. Four soil vacuum-extraction units (SVEU) vadose zone units, located in A/M Areas, have been operating since May 1995. These units are fed by 12 soil vapor extraction wells. A description of the systems that compose the corrective-action program follows.

Air Stripper Performance

M-1 Air Stripper

A summary of 1996 operating and performance data for the M-1 air stripper is presented in Table D-15 (Appendix D, Volume I). During the year, the stripper removed 13,089 lbs of degreaser solvent. The average total influent VOC concentration was 3,615 µg/L. The average annual effluent total was less than 4.02 µg/L.

The M-1 air stripper has removed a cumulative total of 317,106 lbs of VOCs. When combined with the contaminated water treated by the pilot air stripper, the prototype air stripper, and the start-up of the full-scale M-1 air stripper system (16,200, 15,900, and 2,100 lbs, respectively, for a total of 34,200 lbs), the total weight of tetrachloroethylene and trichloroethylene removed by the M-1 air stripper is 351,306 lbs.

The water feed rate to the M-1 air stripper has averaged 424 gpm since startup. Total inlet solvent concentrations have decreased from roughly 47,100 µg/L in April 1985 to less than 5,490 µg/L in June 1995. Stripping efficiency has always produced effluent concentrations substantially less than the permit requirements.

A-1 Air Stripper

A summary of 1996 operating and performance data for the A-1 air stripper is presented in Table D-16 (Appendix D, Volume I). During the year, the stripper removed 80 lbs of degreaser solvent from RWM 12. This unit was decommissioned during June 1996 to allow for tie-in to the A-2 air stripper. The average annual influent of VOCs was 2,204 µg/L. The average annual effluent total from the A-1 unit was less than 1 µg/L.

The A-1 air stripper removed a cumulative total of 2,165 lbs of solvent from more than 98 million gal of groundwater while operating. The water feed rate to the A-1 air stripper averaged 53 gpm since startup. Stripping efficiency was greater than 99.7 percent, with effluent tetrachloroethylene and trichloroethylene concentrations less than their permit limits of 5 mg/L.

The A-1 air stripper has been decommissioned to allow the newer A-2 unit to handle all the existing recovery wells in the northern sector. Further reports on RWM 12 VOC removal will be reported with the A-2 stripper.

A-2 Air Stripper

A summary of 1996 operating and performance data for the A-2 air stripper is presented in Table D-17 (Appendix D, Volume I). During the year, the stripper removed 1,018 lbs of degreaser solvent from RWM 12, RWM 13B, RWM 13C, RWM 14B, RWM 14C, and RWM 15. The average annual influent concentration was 2,840 µg/L, and the average annual effluent VOC concentration was 2 µg/L.

Vadose Zone Unit Performance

In general, SVEU performance was below operational goals for 1996. There were several reasons that the SVEUs were down during 1996. The units intermittently had mechanical problems that were addressed and the units were returned to service. The units were down for preventive maintenance periodically throughout the year to ensure the reliability of the units' components. The later part of the year saw a large amount of downtime associated with installation of the remote operating systems. The remote operating systems and the revised air quality permit (received in 1997) will significantly improve future operating performance.

SVEU Vadose Zone Unit 782-3M

A summary of 1996 operating and performance data for the 782-3M is presented in Table D-18 (Appendix D, Volume I). During the year, the 782-3M removed a total of 13,780 lbs of degreaser solvent. The average annual VOC influent concentration was 459 ppmv.

SVEU Vadose Zone Unit 782-4M

A summary of 1996 operating and performance data for the 782-4M is presented in Table D-19 (Appendix D, Volume I). During 1996, the 782-4M removed a total of 12,881 lbs of degreaser solvent. The average annual influent VOC concentration was 380 ppmv.

SVEU Vadose Zone Unit 782-5M

A summary of 1996 operating and performance data for the 782-5M is presented in Table D-20 (Appendix D, Volume I). During the year, the 782-5M removed a total of 9,287 lbs of degreaser solvent. The average annual VOC concentration was 183 ppmv.

SVEU Vadose Zone Unit 782-6M

A summary of 1996 operating and performance data for the 782-6M is presented in Table D-21 (Appendix D, Volume I). During the year, the 782-6M removed a total of 15,256 lbs of degreaser solvent. The average annual influent VOC concentration was 464 ppmv.

SVEU Vadose Zone Unit 782-7M (formerly the Integrated Demonstration Unit)

A summary of 1996 operating and performance data for the 782-7M (formerly the IDU) is presented in Table D-22 (Appendix D, Volume I). This unit removed 4,188 pounds of VOCs even though it did not operate throughout the entire year. The average annual influent VOC concentration was 134 ppmv during this time.

Recovery Well System

Monthly and cumulative volumes of groundwater pumped from the recovery well system and average flow rates for recovery wells RWM 1 through 15B are presented in Table D-23 (Appendix D, Volume I). Monthly concentrations (µg/L) of tetrachloroethylene and trichloroethylene in each well are presented in Table D-24 (Appendix D, Volume I).

Vapor Extraction Well System

Vapor extraction well AMH 2 pumps contaminated air to the SVEU Vadose Zone Unit 782-7M (formerly the IDU). Table D-22 (Appendix D, Volume I) presents a summary of 1996 activity at the IDU.

Soil vapor extraction wells MVE 4, MVE 9, and MVE 10 pump contaminated air to the SVEU Vadose Zone Unit 782-3M, located in the A-014 outfall. Table D-18 (Appendix D, Volume I) presents a summary of 1996 activity at the 782-3M.

Soil vapor extraction wells AMH 6 and AMH 7 pump contaminated air to the SVEU Vadose Zone Unit 782-4M, located in the M-Area Settling Basin. Table D-19 (Appendix D, Volume I) presents a summary of 1996 activity at the 782-4M.

Soil vapor extraction wells MVE 5, MVE 6, MVE 7, and MVE 8 pump contaminated air to the SVEU Vadose Zone Unit 782-5M, located in the M-Area HWMF process sewer. Table D-20 (Appendix D, Volume I) presents a summary of 1996 activity at the 782-5M.

Soil vapor extraction wells MVE 1, MVE 2, and MVE 3 pump contaminated air to the SVEU Vadose Zone Unit 782-6M, located in the 321-M Solvent Storage Area. Table D-21 (Appendix D, Volume I) presents a summary of 1996 activity at the 782-6M.

Air Stripper Modifications

The M-1 air stripper has undergone no major modifications for operation during the third and fourth quarters of 1996. A catalytic oxidation unit is being outfitted to the M-1 unit and will start operating during 1997. This unit is expected to be operational during 1997. The A-1 air stripper was decommissioned during June of 1996. RWM 12 was rerouted directly to the A-2 air stripper which is now operational and receiving influent from RWM 12, RWM 13B, RWM 13C, RWM 14B, RWM 14C, and RWM 15. The A-2 stripper was also outfitted with a catalytic oxidation unit during this period.

Vadose Zone Unit Modifications

SVEU Vadose Zone Units

Major modifications were made to the SVEU Vadose Zone Units 782-3M, -4M, -5M, -6M, and -7M during the third and fourth quarters of 1996. A remote system to control the operation of SVEU units 782-3M, -4M, -5M, and -6M was installed during the later part of FY 1996. The system is currently being tested and started on individual units. SVEU 782-7M has had major modifications for a methane injection system. This system is an upgrade of an older system used on the IDU system prior to full-scale operation. The methane injection system will be operational in 1997.

Monitoring and Corrective-Action Program Assessment

New Findings at Met Lab

A cone penetrometer technology (CPT) assessment of the Met Lab vadose zone contamination has been completed. The reports are currently being written; however, the initial findings indicate a relatively concentrated area of VOC contaminants in and around Building 717-A and other upgradient sources. The assessment also identified the presence of Freon-113 in the vadose zone in this area. Further characterization has identified the preferred remediation alternative as a passive in situ VOC removal technology—barometric pumping. This alternative is presented in the recently submitted CAP modification to the M-Area RCRA permit application.

Ongoing Programs

M-Area HWMF

Compliance and Post-Closure Programs

- In 1980, the U.S. Department of Energy (DOE) submitted a notification of the SRS hazardous waste activities to SCDHEC; DOE then submitted a RCRA Part A hazardous waste permit application.
- SRS notified SCDHEC of volatile organic solvent contamination when it was first detected in the groundwater beneath the settling basin in June 1981. A network of monitoring wells was initiated to define the extent, concentration, distribution, and migration rate of the contaminant plume.
- Interim status monitoring began in 1983 and continued through September 1987; assessment monitoring was initiated second quarter 1986 and completed fourth quarter 1987.
- In February 1983, SRS voluntarily began a pilot remediation system to treat contaminated groundwater.
- A groundwater protection plan was submitted to Congress in June 1984 to meet the requirements of Public Law 98-181.
- In compliance with the requirements of Public Law 98-181, a closure plan for the settling basin was submitted to SCDHEC in 1984, with revisions in 1985 and 1987.
- A full-scale corrective-action program was initiated in 1985 to remove and treat hazardous constituents from the groundwater beneath the M-Area HWMF.
- The M-Area HWMF RCRA Part B post-closure care permit application was approved by SCDHEC in 1987.
- Closure was approved by SCDHEC on July 10, 1987; a closure cap was completed during 1989 and 1990; and closure was certified by SCDHEC on April 26, 1991.
- The 1992 M-Area HWMF RCRA Part B permit renewal application was submitted to SCDHEC in April 1992 as specified in SCHWMR R.61-79.270.30(b) and 270.50(a).
- Revision 1 of the 1992 M-Area HWMF RCRA Part B permit renewal application was submitted to SCDHEC in March 1993. The revision included proposals to reduce the sampling, analysis, and reporting requirements for the groundwater monitoring program in A/M Areas.
- Modifications to the 1992 M-Area HWMF RCRA Part B permit renewal application (Revision 2) and the 1987 Part B permit application (Revision 4) were submitted to SCDHEC

December 20, 1993. The modifications included a proposal to include PCB monitoring at specified A/M-Areas groundwater monitoring wells.

- To expedite SCDHEC's approval of the program to reduce sampling, analysis, and reporting, Revision 5 of the 1987 Part B permit application was submitted in February 1994. SRS received a Notice of Deficiency (NOD) on Revision 5 in June 1994.
- Revision 6 of the 1987 Part B permit application, submitted to SCDHEC in July 1994, was approved by SCDHEC. The revision addresses the NOD on Revision 5, with modifications to the proposed reductions in sampling, analysis, and reporting.
- Also in July 1994, Revision 3 of the 1992 Part B permit renewal application was submitted to SCDHEC in response to their NOD. Revision 3 modifications included updating the hydrostratigraphic nomenclature; updating information on the purged water disposal station, closure and corrective-action activities, DNAPL investigations, and proposed demonstration programs; adding information on new investigations in the western and southern sectors of A/M Areas; and revising text on contingency plans, personnel training, and procedures to prevent hazards. The renewal document adheres to the format specified in the EPA Regulatory Completeness Checklist for Post-Closure Permit Applications (Revision 4, February 4, 1986). SCDHEC reviewed the application and held a comment and response period in March 1995.
- The final report updating the hydrostratigraphy of the A/M Areas and the Metallurgical Laboratory HWMF was submitted to SCDHEC in February 1995.
- The 1995 RCRA Renewal Permit (SCDHEC, 1995) for the M-Area HWMF and the Metallurgical Laboratory HWMF became effective October 5, 1995.

A/M-Areas Vadose Zone Remediation

Although the corrective-action system in A/M Areas has proven effective in removing and treating contaminated groundwater, it does not remove contaminants from the vadose zone, which is the unsaturated layer of soil between the ground surface and the water table. Vadose zone remediation decreases the migration of residual contaminants into the groundwater and reduces the time required for groundwater remediation.

The following four sites, which have elevated levels of tetrachloroethylene and trichloroethylene in the vadose zone, have been chosen for vadose zone remediation using vacuum extraction: the abandoned process sewer line, the M-Area Settling Basin, the A-014 outfall, and the 321-M former solvent storage area. Vacuum extraction was selected after a successful pilot demonstration removed more than 1,500 lbs of solvents during a 21-day test in 1987.

Four soil vacuum extraction (SVE) units were installed in A/M Areas during 1994. Design of the SVE units was completed March 11, 1994; construction began March 28, 1994, and was completed in April 1995. On March 25, 1994, SRS requested temporary authorization to initiate vadose zone vacuum extraction at the four locations. SCDHEC granted temporary authorization in June 1994 (letter, J. Litton to W. Wierzbicki, June 16, 1994) and again in June 1995. The SVE units have been operating since May 1995.

The soil vacuum extraction systems operate under air quality control permits 0080-0041-M-CA, 0080-0041-M-CB, 0080-0041-M-CC, and 0080-0041-A-CA issued by SCDHEC in January 1993.

Process modifications have been placed on the four SVE units to allow remote control operation of the systems. This system allows automatic processing changes while the units are operating. This dynamic process eliminates the manual manipulations necessary to operate the units while still meeting the air quality control permit requirements.

Additional SVE units, located near the M-Area Settling Basin and the process sewer line, are expected to be on line in 1997, pending regulatory approval.

Integrated Demonstration Project-Subsystem I

The Integrated Demonstration Project was transferred to ERD on March 30, 1994. Preliminary startup activities to conduct soil vacuum extraction in the vadose zone, including component and system testing, also were completed on March 30, 1994. Regulatory approval for full-scale operation was obtained in June 1994 (letter, J. Litton to W. Wierzbicki, June 16, 1994). Full-scale operation of the extraction equipment began on schedule August 1, 1994. Upgrades to the methane injection system are expected to be completed and operational by March 1997.

The following products related to the demonstration were issued during third quarter 1994: a numerical simulation model, a cost analysis report, a preliminary technology report, a level 2 summary report, a bioremediation demonstration video, an integrated demonstration 3D video, and an integrated discussion video.

Barometric Pumping and Solar-Enhanced Barometric Pumping Demonstrations

Subsurface pressure fluctuations are correlated to atmospheric barometric pressure fluctuations but are damped in amplitude and lagging in phase. The damping and lag occur because pressure between the vadose zone and the atmosphere can produce air flows if the two regions are connected (e.g., by a well screened in the vadose zone). Barometric pumping and solar-enhanced barometric pumping take advantage of these naturally produced forces to remove volatile organic compounds from the subsurface in the form of soil gas. SRS has evaluated these technologies through a demonstration (WSRC, 1994). Barometric pumping technology is being used within the A/M Area and is planned for use at the Met Lab HWMF.

Purge Water Management

During third quarter 1993, construction of a facility to receive, store, and transfer purged water from the M-Area monitoring wells to the M-1 air stripper was completed. This Purged Water Disposal Station, 782-2M, houses a 10,000-gal, double-wall tank. This facility has been used continuously for containment of purged water since January 1994.

Special Monitoring Wells and Piezometers Using Cone Penetrometer Technology

The generation of investigative derived waste during waste-site characterization has been greatly reduced with the successful installation of a monitoring well using CPT, which does not use drilling muds or produce drill cuttings. Recently, a 2-inch-diameter PVC well with 5 ft of PVC screen (10 slot) was installed, 49 ft north of the M-Area Settling Basin, to a depth of approximately 100 ft using CPT. Gas pressure measurements were taken at the well for several weeks. The measurements showed a lagging pressure similar to that of conventionally installed wells in the area. The results suggest that the seal around the annulus of a CPT-installed well is as competent as the formation it penetrates. This method of well installation provides effective protection against contaminant migration. A report of these results has been submitted to SCDHEC under separate cover.

Western Sector Characterization

Soil head space was analyzed on eight borings in the western sector. The drilling report has recently been released and shows a refinement of the boundary of the trichloroethylene/tetrachloroethylene plume. The findings suggest that the primary source of trichloroethylene/tetrachloroethylene is from the M-Area Seepage Basin with the contamination spreading into the western sector from upgradient sources. In addition, fate and transport modeling is currently being developed to predict mobility of the DNAPL pool that is located near the M-Area Settling Basin and Lost Lake.

Southern Sector Remediation

The southern sector plume has an estimated aerial extent of 800 acres, contains relatively dilute concentrations of volatile organic compounds, and is outside the zone of influence of the existing groundwater recovery system. SRS has investigated the southern sector to determine the boun-

dary of solvent contamination and to define the geology and hydrology of the area, has evaluated the results of the assessments, and has installed two vertical recirculation wells to control down-gradient migration of the >500 ppb trichloroethylene plume. Additional information on the remediation plans will be submitted in monthly reports and in a Corrective Action Plan modification.

A-2 Air Stripper

Groundwater contamination in the northern sector extends over approximately 174 acres. Controlling contamination in the uppermost aquifer zone will prevent further migration downward into the deeper Crouch Branch Aquifer Zone. The new A-2 air stripper, with a feed rate of 300 gpm, is fed by six recovery wells (including RWM 12, previously from the A-1 stripper unit) and includes a catalytic oxidation unit for offgas treatment. This unit began operating in fiscal year 1996. Offgas from the A-1 air stripper will be fed into the A-2 air stripper offgas unit.

Met Lab HWMF

Two recovery wells have been drilled, cased, and developed adjacent to the Met Lab basin. These wells are scheduled to be tied into the M-1 air stripper when regulatory approval is granted.

A proposal for background wells is currently under review for acceptance. The set of proposed background wells will allow an accurate statistical assessment of the contamination found in and around the Met Lab area.

Proposed Monitoring and Corrective-Action Program Modifications

The progress of proposed modifications is reported here after changes are approved by SCDHEC in other reports, e.g., status reports, monitoring-change proposals, and modifications.

Groundwater Monitoring Program

The number of wells in the groundwater monitoring network was reduced by approval of the 1995 RCRA Renewal Permit (SCDHEC, 1995). The reduction eliminated the monitoring of groundwater wells that were redundant in information or sampling aquifer zone, outside the known plume and not in line with plume flows, not mandated by regulation, or damaged and providing poor sample representation. Optimizing the well system is part of the fiscally responsible actions at SRS. Continuous improvement in this area is still being addressed.

Corrective-Action Program

Further work is scheduled for DNAPL characterization, assessment, and remediation technology studies near wells MSB 3D and 22D. An alcohol injection-extraction test was started in May 1996 and reported under separate cover in October 1996. The test was used to confirm the presence or absence of DNAPL in the immediate vicinity of the well screen. Data indicated no distinct patterns of detection but provided information on the design and operation of remediation systems for DNAPL.

In addition, a field demonstration of In Situ Fenton's Destruction of DNAPL (GeoCleanse) is to take place in early 1997. This demonstration will use an injectant system to place a peroxide and iron solution in contact with DNAPL which converts the chlorinated solvents to nontoxic end products. The injection and monitoring wells were drilled and cased in late 1996 and are available for the demonstration.

A/M-Areas Vadose Zone Remediation Program

The Vadose Zone Remediation Program, as noted in earlier chapters, is progressing with additional units and strategies for remediation. This technology has dramatically increased the monthly pounds of solvent removed from the contaminant source in M Area. A remote systematic unit operations package was installed in late 1996 and is fully operational. This system optimizes the SVEU systems at all times during operation to maximize the removal efficiencies while still meeting the air quality permit requirements. Additional strategies such as soil heating and transfer of units to new locations for remediation are still being planned.

Errata and Revisions

Result values for earlier quarters presented in this report may differ from the values for those same quarters presented in previous reports because some re-analyses may have occurred after the quarterly reports were printed. Also, field data are collected once each quarter, but samples for analytical data may be collected more than once each quarter. Thus, because the results tables present the highest analytical result for the quarter, the reported analytical result may be from a sample collected on a different date from the date the field data were collected.

First and Second Quarters 1996

In the *Corrective-Action System Operation and Performance* section, the tetrachloroethylene and trichloroethylene effluent totals were expressed as mg/L. These totals should have been expressed as µg/L.

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Appendix A

Standards

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Table A-1. Standards for M-Area HWMF

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
Groundwater Protection Standard			
261 Appendix VIII / 264 Appendix IX Hazardous Constituents			
<u>Inorganics</u>			
Barium	2,000	µg/L	SCDHEC (1995) ^a
Cyanide	20 ^b	µg/L	SCDHEC (1995)
Lead	15	µg/L	SCDHEC (1995)
Nickel	100	µg/L	SCDHEC (1995)
Selenium	50	µg/L	SCDHEC (1995)
<u>Organics</u>			
Chlorobenzene	5 ^c	µg/L	SCDHEC (1995)
1,1-Dichloroethane	5 ^c	µg/L	SCDHEC (1995)
1,1-Dichloroethylene	7	µg/L	SCDHEC (1995)
trans-1,2-Dichloroethylene	100	µg/L	SCDHEC (1995)
PCB 1016	0.5	µg/L	SCDHEC (1995)
PCB 1221	0.5	µg/L	SCDHEC (1995)
PCB 1232	0.5	µg/L	SCDHEC (1995)
PCB 1242	0.5	µg/L	SCDHEC (1995)
PCB 1248	0.5	µg/L	SCDHEC (1995)
PCB 1254	0.5	µg/L	SCDHEC (1995)
PCB 1260	0.5	µg/L	SCDHEC (1995)
1,1,2,2-Tetrachloroethane	5 ^c	µg/L	SCDHEC (1995)
Tetrachloroethylene	5	µg/L	SCDHEC (1995)
1,1,1-Trichloroethane	200	µg/L	SCDHEC (1995)
Trichloroethylene	5	µg/L	SCDHEC (1995)
Monitoring Constituents Standard			
<u>Inorganics</u>			
Aluminum	100	µg/L	WSRC (1987) ^d
Chloride	4,200	µg/L	WSRC (1987)
Chromium	100	µg/L	EPA (1993a) ^e
Cobalt	4	µg/L	WSRC (1994) ^f
Copper	1,300	µg/L	WSRC (1994)
Fluoride	4,000	µg/L	EPA (1993a)
Manganese	50	µg/L	EPA (1993b) ^g
Mercury	2	µg/L	EPA (1993a)
Nitrate-nitrite as nitrogen	2,400	µg/L	WSRC (1987)
Sodium	4,600	µg/L	WSRC (1987)
Sulfate	3,000	µg/L	WSRC (1987)
Total phosphates (as P)	300	µg/L	WSRC (1987)

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
Uranium	100	µg/L	WSRC (1987)
Zinc	5,000	µg/L	EPA (1993b)
<u>Radionuclides</u>			
Gross alpha	15	pCi/L	EPA (1993a)
Nonvolatile beta	50	pCi/L	EPA (1993a)
Radium, total alpha-emitting ^h	5	pCi/L	EPA (1993a)

- ^a Concentrations with SCDHEC (1995) sources are groundwater protection standards in the 1995 RCRA Renewal Permit.
- ^b Concentration is the practical quantitation limit (PQL) for EPA Method 335.2 (used by WA) and 335.3 (used by GE). This PQL is the contract-required PQL for GE and WA.
- ^c Concentration is the PQL for EPA Method 8240 as defined in SCDHEC (1994). This PQL is the contract-required PQL for GE and WA.
- ^d Concentrations with WSRC (1987) sources are background concentrations.
- ^e Concentrations and activities with EPA (1993a) sources are primary drinking water standards.
- ^f Concentrations with WSRC (1994) sources were groundwater protection standards under the previous permit.
- ^g Concentrations with EPA (1993b) sources are secondary drinking water standards.
- ^h The standard used for total alpha-emitting radium is the primary drinking water standard for total radium.

Table A-2. Standards for Met Lab HWMF

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
<u>Groundwater Protection Standard</u>			
261 Appendix VIII / 264 Appendix IX Hazardous Constituents			
<u>Inorganics</u>			
Arsenic	50	µg/L	SCDHEC (1995) ^a
Barium	2,000	µg/L	SCDHEC (1995)
Chromium	100	µg/L	SCDHEC (1995)
Lead	15	µg/L	SCDHEC (1995)
Mercury	2	µg/L	SCDHEC (1995)
Nickel	100	µg/L	SCDHEC (1995)
Silver	50	µg/L	SCDHEC (1995)
<u>Organics</u>			
Acetone	10 ^b	µg/L	SCDHEC (1995)
Carbon tetrachloride	5	µg/L	SCDHEC (1995)
Chloroethene	2	µg/L	SCDHEC (1995)
Chloroform	100	µg/L	SCDHEC (1995)
1,1-Dichloroethane	0.3 ^b	µg/L	SCDHEC (1995)
1,2-Dichloroethane	5	µg/L	SCDHEC (1995)
1,1-Dichloroethylene	7	µg/L	SCDHEC (1995)
cis-1,2-Dichloroethylene	70	µg/L	SCDHEC (1995)
trans-1,2-Dichloroethylene	100	µg/L	SCDHEC (1995)

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
2,4-Dichlorophenoxyacetic acid	10 ^c	µg/L	SCDHEC (1995)
Lindane	0.2	µg/L	SCDHEC (1995)
Methyl methacrylate	2 ^b	µg/L	SCDHEC (1995)
Phenol	10 ^d	µg/L	SCDHEC (1995)
Tetrachloroethylene	5	µg/L	SCDHEC (1995)
1,1,1-Trichloroethane	200	µg/L	SCDHEC (1995)
Trichloroethylene	5	µg/L	SCDHEC (1995)

Monitoring Constituents Standard

Inorganics

Chloride	4,200	µg/L	WSRC (1987) ^e
Cyanide	20 ^f	µg/L	SCDHEC (1995)
Fluoride	4,000	µg/L	EPA (1993a) ^g
Iron	300	µg/L	EPA (1993b) ^h
Manganese	50	µg/L	EPA (1993b)
Nitrate-nitrite as nitrogen	2,400	µg/L	WSRC (1987)
Selenium	50	µg/L	EPA (1993a)
Sodium	4,600	µg/L	WSRC (1987)
Sulfate	3,000	µg/L	WSRC (1987)
Total organic carbon	10,000 ⁱ	µg/L	SCDHEC (1995)
Total organic halogens	50 ^j	µg/L	SCDHEC (1995)
Total phosphates (as P)	300	µg/L	WSRC (1987)

Radionuclides

Gross alpha	15	pCi/L	EPA (1993a)
Nonvolatile beta	50	pCi/L	EPA (1993a)
Radium, total alpha-emitting ^k	5	pCi/L	EPA (1993a)

^a Concentrations with SCDHEC (1995) sources are groundwater protection or monitoring constituent standards in the 1995 RCRA Renewal Permit.

^b Concentration is the practical quantitation limit (PQL) for EPA Method 8260. This PQL is the contract-required PQL for GE and WA.

^c Concentration is the PQL for EPA Method 8150 as defined in SCDHEC (1994). This PQL is the contract-required PQL for GE and WA.

^d Concentration is the PQL for EPA Method 8270 as listed in SCDHEC (1994). This PQL is the contract-required PQL for GE and WA.

^e Concentrations with WSRC (1987) sources are background concentrations.

^f Concentration is the PQL for EPA Method 335.2 (used by WA) and 335.3 (used by GE). This PQL is the contract-required PQL for GE and WA.

^g Concentrations and activities with EPA (1993a) sources are primary drinking water standards.

^h Concentrations with EPA (1993b) sources are secondary drinking water standards.

ⁱ Concentration is the PQL for EPA Method 9060. This PQL is the contract-required PQL for GE and WA.

^j Concentration is the PQL for EPA Method 9020. This PQL is the contract-required PQL for GE and WA.

^k The standard used for total alpha-emitting radium is the primary drinking water standard for total radium.

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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, Eh, 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 a 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

Analyte	Unit	Flag 1	Flag 2	Source
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)
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)

Analyte	Unit	Flag 1	Flag 2	Source
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
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

Analyte	Unit	Flag 1	Flag 2	Source
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)
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

Analyte	Unit	Flag 1	Flag 2	Source
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
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)

Analyte	Unit	Flag 1	Flag 2	Source
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
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

Analyte	Unit	Flag 1	Flag 2	Source
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
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

Analyte	Unit	Flag 1	Flag 2	Source
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
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

Analyte	Unit	Flag 1	Flag 2	Source
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)
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

Analyte	Unit	Flag 1	Flag 2	Source
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
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 ^o		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 ^o	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)

Analyte	Unit	Flag 1	Flag 2	Source
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.

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Appendix C

Figures

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Figure 1. Location of the M-Area and Metallurgical Laboratory HWMFs at the Savannah River Site

Figure 2. Location of Point-of-Compliance Wells at the M-Area and Metallurgical Laboratory HWMFs

Figure 3. M-Area Sectors

Figure 4. Location of Plume Definition and Background Wells at the M-Area and Metallurgical Laboratory HWMFs

Figure 5. Location of Recovery Wells at the M-Area HWMF

Figure 6. Water-Elevation Differences, M-Area Aquifer Zone, First Quarter 1985 to Fourth Quarter 1996

Figure 8. Water-Elevation Differences, Lower Lost Lake Aquifer Zone, First Quarter 1985 to Fourth Quarter 1996

Figure 9. Water-Elevation Differences, Middle Sand Aquifer Zone of the CBCU, First Quarter 1985 to Fourth Quarter 1996

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Appendix D

Groundwater Monitoring Results Tables

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Key to Reading the Tables

The following abbreviations may appear in the data tables:

Constituents

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

Laboratories

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

Nomenclature

AZ	Aquifer Zone
CBA	Crouch Branch AZ (previously Black Creek)
LL	Lower Lost Lake AZ (previously Lower Congaree)
M	M-Area AZ (previously Water Table)
MCBC	Middle Sand AZ of the CBCU (previously Ellenton Sand)
UL	Upper Lost Lake AZ (previously Upper Congaree)

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	<i>dilution factor</i> column in data tables
E	exponential notation (e.g., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$)
GWPS	groundwater protection standard
H	<i>holding time</i> column in data tables
MCS	monitoring constituents standard
Mod	<i>modifier</i> column in data tables
PDWS	primary drinking water standard
PVC	polyvinyl chloride
ST	<i>exceeded the GWPS or MCS</i> 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 GWPS or MCS but are not marked in the *ST* (exceeded the GWPS or MCS) column are below the GWPS or MCS 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.
E	Detected result is between the sample-specific estimated quantitation limit (EQL) and the method detection limit.
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.
Q	Sample was held beyond normal holding time.
R	Result was rejected because performance requirements in the sample analysis or associated quality control analyses were not met.
T	Analyte was not detected; if present, it was below the criteria for detection.
U	Material analyzed for but not detected. Analytical result reported is less than the sample quantitation limit.
V	Analyte was detected in an associated method blank.
Y	Result was obtained from an unpreserved or improperly preserved sample. Data may not be accurate.
1	Result may be an underestimation of the true value due to analytical bias.
2	Result may be an overestimation of the true value due to analytical bias.
3	The associated result may be of poor precision (high variability) due to analytical bias.

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. Synchronous Water Elevations

Well	1Q96	2Q96	3Q96	4Q96
M-Area Aquifer Zone				
ABP 1A	224.9	224.3	224.0	223.8
ABP 1DD	225.7	225.0	224.9	225.3
ABP 2A	223.6	223.2	263.4	222.5
ABP 2DD	223.4	222.9	220.6	222.3
ABP 3	225.3	224.6	224.6	224.1
ABP 4	223.3	222.7	222.3	222.1
ABP 4DD	224.5	223.8	223.6	205.0
ABP 6D	223.5	222.9	222.7	222.3
ABP 7D	224.5	223.8	223.6	223.3
ABP 8D	223.1	222.6	222.3	221.9
AC 2B	228.2	227.6	227.2	227.0
AC 3B	213.2	221.8	212.3	211.9
ACB 1A	239.0	238.9	237.5	-
ACB 2A	240.6	240.4	238.8	-
ACB 3A	240.0	239.9	238.6	-
ACB 4A	240.1	240.3	239.0	-
AMB 4D	234.8	234.5	233.9	233.3
AMB 5	235.2	-	234.3	233.8
AMB 6	235.3	235.0	234.4	233.9
AMB 7	235.6	235.4	234.7	234.1
AMB 8D	235.2	235.0	234.3	233.6
AMB 9D	235.5	235.3	234.5	233.9
AMB 10D	237.0	236.8	235.7	235.0
AMB 10DD	357.8	358.0	358.1	358.2
AMB 11D	238.0	-	236.7	235.7
AMB 12D	236.4	236.2	235.4	234.8
AMB 14D	232.6	232.5	232.0	231.4
AMB 15D	234.9	234.8	234.3	233.6
AMB 16D	234.5	234.4	233.9	233.2
AOB 1	232.9	237.4	236.8	236.0
AOB 2	243.1	227.5	236.6	234.9
AOB 3	239.5	239.4	238.5	237.3
ARP 2	219.6	219.0	219.1	218.3
ARP 5D	NA	NA	NA	NA
ASB 1A	236.3	236.9	237.4	236.4
ASB 2AR	239.9	239.2	238.7	238.2
ASB 3AR	240.4	239.5	239.1	238.6
ASB 4	239.6	238.8	238.5	243.0
ASB 5AR	238.1	237.6	237.2	236.6
ASB 6A	238.2	237.5	236.8	236.5
ASB 9	242.6	241.9	-	219.1
MCB 2	225.2	224.7	224.3	223.8
MCB 4	225.4	224.8	224.7	224.2
MCB 5	225.8	225.1	224.9	224.6
MCB 6	213.2	220.0	219.8	219.3
MCB 8D	226.2	225.5	224.9	224.9
MCB 9D	224.0	223.3	223.1	222.7
MSB 1D	231.4	231.4	231.1	230.5
MSB 2D	232.2	232.2	231.8	231.3
MSB 3D	-	-	-	-
MSB 4D	230.4	230.6	230.0	229.6
MSB 5A	228.3	NA	227.9	NA
MSB 6A	227.9	227.8	227.3	227.1

Well	1Q96	2Q96	3Q96	4Q96
MSB 7A	228.9	228.6	228.3	228.0
MSB 8A	230.1	229.9	229.6	229.2
MSB 9C	230.9	230.8	230.8	230.3
MSB 10D	NA	NA	NA	NA
MSB 11D	231.2	231.3	230.6	230.2
MSB 11E	239.6	239.6	239.7	239.4
MSB 11F	231.4	NA	231.0	230.6
MSB 12D	NA	NA	NA	NA
MSB 13C	230.3	229.3	229.8	229.3
MSB 13D	229.0	229.0	228.7	228.2
MSB 14C	232.1	232.2	232.2	NA
MSB 15C	246.3	243.3	242.9	244.1
MSB 15D	233.8	233.3	233.6	231.9
MSB 16C	232.3	232.2	231.2	230.8
MSB 17B	226.6	226.2	225.7	225.5
MSB 17C	NA	NA	NA	NA
MSB 17D	227.7	227.3	226.9	226.6
MSB 18C	228.9	228.1	227.6	227.3
MSB 19C	238.9	238.6	237.9	237.1
MSB 20C	228.1	227.6	227.1	227.0
MSB 21C	230.3	229.9	229.5	229.3
MSB 22	-	-	-	-
MSB 23	NA	NA	NA	NA
MSB 24	235.6	235.3	235.3	255.2
MSB 25	NA	237.2	237.0	237.1
MSB 26	237.6	237.1	NA	237.2
MSB 27	237.2	236.9	236.5	236.5
MSB 27A	230.4	230.4	229.7	229.6
MSB 28	231.8	231.4	230.8	230.5
MSB 29D	233.7	233.6	233.2	232.8
MSB 29DD	233.9	233.8	233.4	233.1
MSB 30C	232.0	231.5	231.1	230.8
MSB 31C	235.9	235.4	235.0	234.3
MSB 32	225.0	224.8	224.2	224.1
MSB 33	217.7	217.4	217.1	216.9
MSB 34C	230.7	230.9	230.4	229.6
MSB 35D	243.5	-	243.3	243.3
MSB 36D	238.0	NA	237.9	237.9
MSB 37D	233.1	233.0	232.7	232.0
MSB 38D	234.5	234.4	234.0	233.5
MSB 39D	232.9	232.6	232.3	232.0
MSB 40D	227.7	227.1	226.7	226.4
MSB 41D	241.0	NA	241.0	241.0
MSB 42D	234.4	234.3	233.6	232.9
MSB 43D	232.5	232.4	232.0	231.7
MSB 43DD	232.8	232.6	232.3	231.8
MSB 44C	NA	236.2	235.5	234.5
MSB 45C	NA	NA	NA	NA
MSB 46C	236.4	240.6	240.8	239.8
MSB 47D	234.9	234.7	234.3	233.9
MSB 48D	234.3	248.7	248.8	248.7
MSB 49D	229.8	229.2	229.1	228.7
MSB 51DD	NA	NA	NA	NA
MSB 52D	239.6	239.3	238.7	237.9
MSB 53D	235.0	234.4	233.8	233.8
MSB 56D	221.0	221.2	220.7	220.2
MSB 57D	232.3	232.2	231.8	232.3
MSB 58D	232.1	231.9	231.6	231.0
MSB 59D	231.0	231.1	230.5	230.0

Well	1Q96	2Q96	3Q96	4Q96
MSB 60D	231.1	231.2	230.8	230.2
MSB 62D	229.9	230.0	229.7	229.1
MSB 63D	230.3	—	229.9	229.5
MSB 64D	227.8	227.5	227.3	226.9
MSB 65D	234.2	234.3	233.8	233.3
MSB 66D	232.4	232.4	232.0	231.5
MSB 67D	234.6	234.2	233.9	234.4
MSB 68D	235.4	235.0	234.7	234.2
MSB 69D	234.8	234.6	234.1	236.7
MSB 70D	222.2	221.7	221.3	221.1
MSB 74D	232.6	232.3	232.0	231.7
MSB 77D	235.8	235.1	234.6	234.4
MSB 78DR	—	224.5	223.9	NA
MSB 82D	234.5	234.3	234.0	233.5
MSB 83D	234.7	234.6	234.1	233.7
MSB 85D	234.5	234.2	233.8	233.3
MSB 87C	243.5	243.8	242.4	241.2
MSB 89C	229.4	228.9	228.4	228.3
SRW 1	213.3	212.9	212.5	212.2
SRW 2	215.4	—	214.2	211.4
SRW 3A	214.3	—	213.2	171.2
SRW 4	214.0	—	212.9	212.8
SRW 5	217.2	—	211.2	202.8
SRW 6	212.9	—	211.9	208.1
SRW 7	211.8	—	240.6	210.4
SRW 8	209.4	—	208.4	210.1
SRW 9	200.4	—	199.1	200.0
SRW 9B	201.0	—	199.7	198.9
SRW 10	213.5	—	213.4	243.4
SRW 11	211.4	—	210.5	211.2
SRW 12B	190.3	—	187.8	187.0
SRW 12C	197.4	—	195.2	194.0
SRW 13C	210.6	—	209.6	209.3
SRW 14C	NA	—	217.0	217.0
SRW 15C	213.5	213.1	212.7	212.3
SRW 16C	215.9	215.5	215.0	214.6
SRW 17D	NA	NA	NA	NA

Upper Lost Lake Aquifer

ABW 1	227.1	226.6	232.1	230.4
AC 1A	214.1	213.8	213.2	212.6
AC 1B	214.2	213.8	213.3	212.8
AC 3A	211.1	210.7	210.2	209.8
AMB 11B	224.2	223.8	223.3	222.2
AMB 18C	234.8	234.6	234.0	233.4
AMB 19C	232.4	232.2	231.4	230.5
ARP 1A	217.0	216.4	216.0	215.5
ARP 3	222.0	221.4	221.5	220.9
ARP 4	219.6	219.0	218.7	218.2
ASB 8	235.6	235.3	234.9	NA
ASB 8C	225.3	225.0	225.0	219.7
ASB 9C	222.4	221.9	—	220.0
MCB 5C	195.6	195.3	195.1	194.3
MCB 6C	196.3	196.0	195.7	195.0
MCB 7C	194.7	194.4	194.0	193.5
MSB 1C	216.9	219.8	217.6	215.3
MSB 1CC	219.0	221.1	219.3	217.4
MSB 2C	218.7	220.7	218.7	216.8

Well	1Q96	2Q96	3Q96	4Q96
MSB 3C	220.1	222.4	219.8	218.4
MSB 4C	214.8	219.7	214.7	213.3
MSB 5C	223.8	224.1	223.4	222.7
MSB 6C	224.7	224.5	226.1	223.8
MSB 7C	223.3	223.1	222.6	222.2
MSB 8C	220.8	220.9	220.3	219.8
MSB 9B	230.7	230.7	230.3	229.8
MSB 10C	230.2	230.1	229.7	230.2
MSB 11B	218.3	222.3	219.6	216.1
MSB 11C	220.8	224.0	221.8	219.1
MSB 12B	218.7	218.5	218.1	217.5
MSB 12C	223.9	224.0	223.8	222.8
MSB 13B	220.0	223.2	187.8	194.8
MSB 13CC	225.3	225.9	225.0	224.3
MSB 14B	218.4	220.2	218.4	216.8
MSB 15A	221.3	223.7	221.1	219.2
MSB 16A	222.8	225.4	222.9	218.3
MSB 17A	217.2	217.2	216.7	216.2
MSB 18A	212.9	213.0	212.5	212.0
MSB 18B	222.7	222.3	221.8	221.5
MSB 23B	224.3	225.6	223.0	224.5
MSB 24A	226.2	228.5	225.5	227.4
MSB 26A	225.5	227.2	225.4	223.5
MSB 27B	226.4	NA	225.7	227.2
MSB 28A	224.8	225.1	223.9	223.1
MSB 29C	231.9	231.8	231.5	230.6
MSB 30CC	226.1	226.1	225.5	224.7
MSB 31CC	220.4	214.3	213.8	212.5
MSB 32C	217.1	216.6	216.5	216.2
MSB 33C	211.2	210.8	210.7	210.6
MSB 34B	227.9	229.7	227.6	226.6
MSB 35B	221.7	220.4	220.1	218.9
MSB 36C	215.5	214.9	214.6	213.7
MSB 39C	216.2	215.9	215.6	214.7
MSB 40C	205.1	204.7	204.4	203.8
MSB 42C	232.7	232.5	232.2	231.4
MSB 43B	230.2	230.1	229.8	229.2
MSB 44B	226.0	225.5	225.2	224.0
MSB 45B	226.8	227.8	226.4	225.3
MSB 47C	234.1	233.9	233.6	232.7
MSB 48C	225.9	225.8	225.5	224.0
MSB 50D	202.7	202.4	211.1	202.1
MSB 51D	210.6	210.4	210.1	210.0
MSB 53C	224.9	224.3	224.2	222.9
MSB 54D	234.6	234.4	234.0	233.5
MSB 55D	234.5	234.3	234.0	233.6
MSB 55HC	234.1	233.9	233.6	233.2
MSB 61C	225.4	224.9	224.4	223.7
MSB 61D	227.6	227.0	226.7	225.9
MSB 62C	223.9	225.0	223.6	223.3
MSB 63C	221.1	221.4	220.9	219.2
MSB 64C	223.5	223.6	222.8	222.5
MSB 66C	229.9	230.1	229.4	228.3
MSB 70C	218.6	218.2	217.6	217.3
MSB 74C	211.5	211.1	210.8	210.5
MSB 75C	210.2	209.8	209.5	208.9
MSB 76C	221.8	221.4	220.9	220.6
MSB 79C	210.4	-	209.8	209.2
MSB 88D	204.8	204.5	204.2	204.1

Well	1Q96	2Q96	3Q96	4Q96
SRW 2B	208.6	208.3	207.5	207.0
SRW 9A	199.9	-	198.5	197.7
SRW 12A	195.3	-	193.5	192.8
SRW 13B	204.4	-	203.3	202.5
SRW 14B	206.3	206.0	205.1	204.7
SRW 15B	210.5	210.0	209.3	208.9

Lower Lost Lake Aquifer

ABP 3C	197.7	197.6	197.2	196.6
ABP 8C	197.8	197.6	197.2	196.5
AC 2A	221.6	222.1	221.2	220.2
AMB 4B	225.7	225.4	225.2	223.8
AMB 7B	225.9	225.6	225.2	224.0
AMB 10B	224.2	-	223.5	222.7
ASB 2CR	224.7	224.5	223.9	221.7
ASB 3CR	224.3	224.2	223.9	221.0
ASB 5C	224.6	224.4	224.0	220.9
ASB 6C	225.8	225.5	225.4	222.4
ASB 9B	222.1	221.6	-	219.6
ASB 10CR	224.6	224.5	224.1	221.1
MSB 1B	208.1	216.4	213.4	205.4
MSB 2B	210.5	216.9	213.4	208.7
MSB 3B	NA	217.0	210.4	208.3
MSB 4B	205.4	216.5	206.1	203.8
MSB 5B	208.1	211.7	209.4	206.5
MSB 6B	207.1	208.3	206.5	205.6
MSB 7B	207.6	208.6	207.2	206.2
MSB 8B	208.9	210.8	209.1	207.5
MSB 9A	209.4	216.2	213.3	207.3
MSB 10B	213.4	217.3	213.9	211.6
MSB 11A	212.3	217.0	213.3	210.1
MSB 12A	208.7	211.0	209.8	206.9
MSB 13A	207.6	212.4	209.9	206.0
MSB 14A	216.1	218.6	217.2	214.8
MSB 15AA	214.1	218.2	214.5	211.9
MSB 17BB	213.1	213.1	212.3	211.6
MSB 19B	218.2	217.4	216.8	216.2
MSB 20A	219.4	219.4	218.7	218.1
MSB 21A	221.6	221.8	220.8	220.1
MSB 21B	221.0	221.1	220.3	219.3
MSB 25A	216.8	219.8	216.4	218.0
MSB 26B	219.1	222.3	219.8	217.5
MSB 29B	225.6	225.6	225.4	223.7
MSB 30B	226.1	226.0	225.6	225.0
MSB 31B	220.5	214.0	213.8	212.5
MSB 32B	212.0	211.6	211.4	211.2
MSB 33B	208.1	207.8	207.5	207.5
MSB 36B	215.4	214.8	214.4	213.7
MSB 37C	229.6	229.4	229.3	227.9
MSB 38B	216.2	217.5	215.2	215.4
MSB 38C	220.2	221.2	218.8	218.3
MSB 39B	212.3	211.8	211.8	210.7
MSB 40B	205.2	204.1	204.3	203.6
MSB 41C	219.3	218.7	218.6	217.6
MSB 42B	227.0	226.8	226.7	225.3
MSB 43A	230.1	229.9	229.6	229.1
MSB 45A	216.7	217.8	216.7	215.0
MSB 46B	226.1	225.9	225.9	225.9

Well	1Q96	2Q96	3Q96	4Q96
MSB 47B	228.9	228.7	228.4	224.4
MSB 48B	225.5	225.3	225.0	213.3
MSB 49B	203.4	203.6	202.9	202.1
MSB 50B	202.5	202.2	201.9	202.0
MSB 51B	205.2	204.9	204.7	204.8
MSB 52B	220.8	220.3	220.2	218.8
MSB 53B	224.0	223.4	223.3	221.8
MSB 54C	228.3	228.0	227.7	226.4
MSB 55C	230.8	230.4	230.3	229.0
MSB 62B	208.3	214.4	208.5	210.1
MSB 63B	209.1	212.2	210.1	207.6
MSB 64B	208.3	-	208.4	206.7
MSB 66B	220.4	220.7	220.1	218.0
MSB 67C	229.7	229.2	228.9	225.6
MSB 68C	228.7	228.3	227.9	223.6
MSB 69C	229.4	229.2	229.0	227.0
MSB 71B	218.2	217.7	217.0	216.6
MSB 72B	200.4	200.0	199.4	199.1
MSB 73B	202.4	202.3	201.5	200.9
MSB 74B	211.6	211.2	210.8	210.4
MSB 75B	210.4	210.0	209.7	209.0
MSB 77C	225.8	225.2	225.1	223.6
MSB 79B	208.1	207.7	207.7	206.7
MSB 81B	221.6	221.0	221.0	220.0
MSB 82C	230.3	230.0	229.9	227.7
MSB 83C	229.9	229.7	229.4	228.0
MSB 84C	231.0	230.6	230.5	229.7
MSB 85C	226.3	226.2	226.0	224.0
MSB 86C	226.4	226.2	325.9	224.7
MSB 87B	219.6	218.9	218.4	217.9
MSB 88C	203.8	203.5	203.2	203.1
MSB 89B	207.4	207.1	206.7	206.4
SRW 1BB	208.5	208.0	207.4	206.8
SRW 3BB	-	209.2	208.4	207.9
SRW 4BB	208.3	-	207.1	206.6
SRW 8BB	NA	-	209.7	209.8
SRW 10BB	206.4	205.9	205.0	204.6
SRW 11BB	207.7	-	205.6	204.9
SRW 13A	202.4	-	200.9	200.6
SRW 16A	214.9	214.6	214.1	213.8
SRW 16B	215.5	215.0	214.5	214.4
SRW 17BB	213.1	206.2	212.3	211.6
SRW 17C	213.3	212.9	212.3	211.8

Middle Sand Aquifer

AMB 4A	220.2	219.9	220.0	218.0
AMB 7A	220.2	219.7	219.6	212.4
AMB 10A	219.1	-	218.7	217.3
AMB 13AR	220.0	219.5	219.5	218.0
AMB 17A	220.2	219.8	220.0	-
AMB 18A	220.0	219.7	219.8	217.9
ASB 6AA	219.7	219.5	219.4	216.7
ASB 8A	220.8	220.5	220.5	217.6
ASB 8B	221.9	221.7	221.8	216.6
MSB 10A	210.1	215.7	212.9	208.6
MSB 19A	215.8	215.1	215.1	214.1
MSB 29A	221.3	221.2	221.1	218.9
MSB 30AA	224.8	224.5	224.3	223.7

Well	1Q96	2Q96	3Q96	4Q96
MSB 33A	205.5	205.1	205.1	204.7
MSB 34A	219.5	220.5	219.6	217.3
MSB 35A	218.2	217.3	217.4	216.0
MSB 36A	210.7	210.1	210.3	209.1
MSB 37B	220.5	220.2	220.3	218.1
MSB 39A	209.6	209.1	209.5	207.9
MSB 40A	203.4	203.1	203.1	202.4
MSB 41A	218.6	218.2	218.2	217.0
MSB 41B	218.7	218.2	217.9	217.1
MSB 42A	220.5	220.3	220.3	218.3
MSB 44A	218.9	218.6	218.5	216.8
MSB 46A	216.3	216.1	215.7	215.1
MSB 47BB	221.1	221.0	220.8	218.3
MSB 48A	224.1	223.9	223.7	222.1
MSB 49A	197.9	198.0	197.8	196.5
MSB 54B	223.7	223.5	223.3	221.6
MSB 55B	223.3	223.1	223.0	220.9
MSB 67B	220.6	220.3	220.0	217.5
MSB 68B	221.0	220.8	220.4	217.7
MSB 69B	222.5	222.4	222.1	221.0
MSB 77B	223.7	222.9	222.9	221.3
MSB 82A	217.6	224.9	228.5	227.5
MSB 82B	221.7	221.7	221.5	218.8
MSB 83B	223.3	223.2	223.1	221.0
MSB 84A	173.7	208.4	185.5	209.7
MSB 88B	201.4	201.1	201.1	200.4
SRW 2A	207.6	207.1	206.3	207.9
SRW 14A	204.4	204.2	203.1	202.7
SRW 15A	210.1	209.6	209.0	208.5

Crouch Branch Aquifer

ASB 6TA	215.3	214.9	215.3	212.6
ASB 8TA	217.0	216.7	217.1	214.6
MSB 12TA	193.2	193.0	193.2	191.0
MSB 12TB	193.4	193.1	193.3	191.1
MSB 21TA	194.8	194.6	194.9	192.9
MSB 23TA	201.8	201.9	202.3	199.9
MSB 23TR	199.7	199.9	200.0	197.5
MSB 27TA	201.8	201.8	202.2	199.7
MSB 29TA	213.4	213.2	213.3	211.0
MSB 30A	199.4	199.3	199.6	197.4
MSB 31A	198.6	198.4	199.0	195.4
MSB 33TA	195.7	195.6	195.6	194.9
MSB 34TA	203.3	203.3	203.4	200.9
MSB 34TB	203.5	203.6	204.2	201.3
MSB 35TA	200.6	200.1	201.0	198.3
MSB 36TA	195.5	195.3	195.6	161.4
MSB 37A	208.3	207.7	208.6	206.0
MSB 37TA	208.1	207.6	208.5	205.8
MSB 38TA	198.4	198.6	198.9	196.4
MSB 39TA	193.4	193.1	193.3	191.2
MSB 40TA	190.2	189.9	190.0	188.9
MSB 41TA	207.5	207.1	207.4	205.8
MSB 42TA	206.4	205.9	207.2	204.5
MSB 43TA	203.9	-	204.0	201.8
MSB 47TA	218.0	217.7	217.6	215.4
MSB 48TA	223.9	223.7	223.6	221.7
MSB 54TA	221.0	220.8	220.7	218.9

<i>Well</i>	<i>1Q96</i>	<i>2Q96</i>	<i>3Q96</i>	<i>4Q96</i>
MSB 55TA	215.4	215.2	215.2	213.2
MSB 66TA	207.5	207.4	207.5	205.0
MSB 69TA	216.6	216.3	216.8	214.4
MSB 77TA	223.3	222.8	222.8	221.2
MSB 82TA	215.7	215.5	215.7	213.2
MSB 83TA	216.9	216.7	216.7	220.8
MSB 85B	223.1	222.9	222.8	220.6
MSB 85TA	222.5	222.4	222.2	220.1

Notes: See pages D-3 and D-4 of this appendix for definitions of the abbreviations used in the screen zone (sz) column.

-- = water-elevation measurement not taken

NA = no data available

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF

WELL MSB 1B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone					
N101833.0 E48483.2	33.330082 °N 81.736982 °W	142.6-137.9 ft msl	354.8 ft msl	4" PVC	S	LL					
SAMPLE DATE	01/17/95	09/13/95	01/16/96	07/17/96							
FIELD DATA											
Parameter	1Q95	3Q95	1Q96	3Q96	Unit						
Water elevation	215.8	210.3	207.5	211.5	ft msl						
pH	5.3	5.1	5.2	5.8	pH						
Sp. conductance	24	28	40	38	µS/cm						
Water temperature	19.0	19.3	30.0	26.0	°C						
Alkalinity as CaCO ₃	2	3	1	1	mg/L						
Turbidity	1	1	1	0	NTU						
Volume purged	2.7	4.4	7.0	4.0	well volume						
Sampling code											
Synchronous water level	209.3 (03/23/95)	217.9 (08/08/95)	208.1 (03/13/96)	213.4 (09/18/96)	ft msl						
ANALYTICAL DATA											
Groundwater Protection Standard											
261 Appendix VIII/264 Appendix IX Hazardous Constituents											
H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	8.2	8.7	10	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<1.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	1.7	3.3	1	JE	µg/L	GE	0
Organics											
●		Chlorobenzene	<8.3	<20	<20	<20	10	J1	µg/L	GE	0
●		1,1-Dichloroethane	<8.3	<20	<20	<20	10	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<8.3	<20	<20	<20	10	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<8.3	<20	<20	<20	10	J1	µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				<0.13	1		µg/L	GE	0
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
●		1,1,2,2-Tetrachloroethane	<8.3	<100	<20	<20	10	J1	µg/L	GE	0
●		Tetrachloroethylene	<8.3	<20	<20	<20	10	J1	µg/L	GE	0
●		1,1,1-Trichloroethane	<8.3	<20	<20	<20	10	J1	µg/L	GE	0
● ■		Trichloroethylene	550	640	670	460	10	J1	µg/L	GE	2
Monitoring Constituents											
H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	<33			270	1	V	µg/L	GE	2
		Chloride	1,700			2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.40	1	JE	µg/L	GE	0
		Copper, total recoverable		<4.0		1.3	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.7			6.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,900	1	V	µg/L	GE	0
		Sodium, total recoverable	2,400			2,500	1	V	µg/L	GE	0
		Sulfate	<1,700			260	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			100	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	4.8	4.9		4.3	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	9.4E-01			9.9E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.2E+00			1.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E+00			5.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 1C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101832.5 E48512.7	33.330130 °N 81.736904 °W	166.0-161.3 ft msl	355.1 ft msl	4" PVC	S	UL

SAMPLE DATE	01/17/95	09/13/95	01/17/96	07/16/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.3	217.8	216.0	216.7	ft msl
pH	11.7	11.7	11.0	8.6	pH
Sp. conductance	1003	944	1000	180	µS/cm
Water temperature	18.7	20.4	31.0	30.0	°C
Alkalinity as CaCO ₃	200	154	170	15	mg/L
Turbidity	1	2	1	1	NTU
Volume purged	0.81	0.81	0.75	1.1	well volume
Sampling code	X	X	X	X	
Synchronous water level	217.5 (03/23/95)	222.0 (08/08/95)	216.9 (03/13/96)	217.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	74	68	64	32	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	4.2	4.3	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.4	1.3	<10	1		µg/L	GE	0
		Selenium, total recoverable	2.0	<5.0	3.3	2.1	1	JE	µg/L	GE	0
Organics											
●		Chlorobenzene	<8.3	<10	<10	<20	10	J1	µg/L	GE	0
●		1,1-Dichloroethane	<8.3	<10	<10	<20	10	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<8.3	<10	<10	<20	10	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<8.3	<10	<10	<20	10	J1	µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<8.3	<50	<10	<20	10	J1	µg/L	GE	0
●	■	Tetrachloroethylene	350	330	290	440	10	J1	µg/L	GE	2
●		1,1,1-Trichloroethane	<8.3	<10	<10	<20	10	J1	µg/L	GE	0
●	■	Trichloroethylene	66	71	66	66	10	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
	■	Aluminum, total recoverable	3,500		2,400	560	1		µg/L	GE	2
		Chloride	2,800			3,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	4.9	3.1	1.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable			0.78	<0.61	1	V	µg/L	GE	0
		Copper, total recoverable		<4.0	<4.0	<3.9	1	V	µg/L	GE	0
		Fluoride				38	1	JE	µg/L	GE	0
		Manganese, total recoverable	<3.3	0.45	1.1	<0.49	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	9,800			15,000	10	V	µg/L	GE	2
	■	Sodium, total recoverable	37,000			25,000	1		µg/L	GE	
	■	Sulfate	5,200			3,600	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<9.5	1	V	µg/L	GE	0
		Zinc, total recoverable	<3.3	8.3	3.0	3.8	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	2.1E+00			1.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.3E+01			5.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.1E+00			5.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 1CC

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101832.5 E48498.0	33.330106 °N 81.736942 °W	192.5-187.8 ft msl	354.9 ft msl	4" PVC	S	UL

SAMPLE DATE	01/17/95	09/13/95	01/17/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.8	219.9	218.1	218.8	ft msl
pH	7.3	5.2	7.0	6.2	pH
Sp. conductance	151	148	260	96	µS/cm
Water temperature	19.0	20.7	29.0	26.0	°C
Alkalinity as CaCO ₃	36	33	22	0	mg/L
Turbidity	3	6	4	1	NTU
Volume purged	0.65	0.66	0.70	2.7	well volume
Sampling code	X	X	X		
Synchronous water level	219.5 (03/23/95)	223.2 (08/08/95)	219.0 (03/13/96)	219.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	20	24	29	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	3.4	1	JE	µg/L	GE	0
		Lead, total recoverable	7.4	7.7	6.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	3.8	4.7	1.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				<0.13	1		µg/L	GE	0
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	23	28	16	10	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	31	41	40	35	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	43			<20	1		µg/L	GE	0
		Chloride	2,100			3,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.95	1	V	µg/L	GE	0
		Copper, total recoverable		6.7		8.8	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.5			9.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.049	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	5,600			6,400	20		µg/L	GE	1
■		Sodium, total recoverable	16,000			10,000	1		µg/L	GE	
		Sulfate	<1,700			380	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<17	1	V	µg/L	GE	0
		Zinc, total recoverable	30	74		30	1		µg/L	GE	0
Radionuclides											
		Gross alpha	9.5E-01			1.9E+00	1		pCi/L	GP	0
		Nonvolatile beta	6.9E+00			1.3E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.5E+00			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 1D

SRS Coord.	Lat/Longitude	Screen Zone	Elevation	Top of Casing	Casing	Pump	Screen Zone
N101833.4 E48452.2	33.330033 °N 81.737065 °W	229.8-210.4 ft msl		354.8 ft msl	4" PVC	S	M
SAMPLE DATE		01/17/95	09/13/95	01/17/96	07/16/96		
FIELD DATA							
Parameter		1Q95	3Q95	1Q96	3Q96		Unit
Water elevation		230.7	232.2	231.4	231.3		ft msl
pH		5.2		9.4	4.8		pH
Sp. conductance		53		72	160		µS/cm
Water temperature		18.2		31.0	30.0		°C
Alkalinity as CaCO ₃		2		7	1		mg/L
Turbidity		2		1	2		NTU
Volume purged		1.2		1.1	0.80		well volume
Sampling code		X	P	X	X		
Synchronous water level		231.6 (03/23/95)	232.0 (08/08/95)	231.4 (03/13/96)	231.1 (09/18/96)		ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	16		13	13	1	V	µg/L	GE	0
		Cyanide	<8.3		<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0		4.8	4.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7		<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3		<5.0	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<1.7		<2.0	<10	5	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7		<2.0	<10	5	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7		1.2	<10	5	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<1.7		<2.0	<10	5	J1	µg/L	GE	0
		PCB 1016	<0.81		<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.81		<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.81		<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.81		<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.81		<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.81		<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.81		<0.13	<0.13	1		µg/L	GE	0
●		1,1,2,2-Tetrachloroethane	<1.7		<2.0	<10	5	J1	µg/L	GE	0
● ■		Tetrachloroethylene	28		280	430	20	J1	µg/L	GE	2
●		1,1,1-Trichloroethane	<1.7		<2.0	<10	5	J1	µg/L	GE	0
● ■		Trichloroethylene	14		96	150	5	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	88			48	1		µg/L	GE	1
		Chloride	4,000			3,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7			<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.64	1	V	µg/L	GE	0
		Copper, total recoverable				23	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	36			22	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33			<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	1,900			2,600	2	V	µg/L	GE	0
■		Sodium, total recoverable	5,700			4,900	1		µg/L	GE	0
		Sulfate	<1,700			760	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			30	1	JE	µg/L	GE	0
		Uranium, total recoverable	<33			<14	1	V	µg/L	GE	0
		Zinc, total recoverable	29			28	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.7E+00			2.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00			2.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.4E+00			1.1E+00	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 2B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101997.9 E48748.2	33.330880 °N 81.736605 °W	150.3-145.6 ft msl	354.6 ft msl	4" PVC	S	LL

SAMPLE DATE	01/16/95	09/22/95	01/17/96	07/01/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.8	211.7	209.5	210.3	ft msl
pH	11.6	11.6	11.6	12.0	pH
Sp. conductance	1464	1804	812	800	µS/cm
Water temperature	19.7	20.6	32.0	28.0	°C
Alkalinity as CaCO ₃	311	380	157	310	mg/L
Turbidity	42	8	10	2	NTU
Volume purged	0.87	0.85	0.81	0.79	well volume
Sampling code	X	X	X	X	
Synchronous water level	211.6 (03/23/95)	218.7 (08/08/95)	210.5 (03/13/96)	213.4 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	110	170	53	98	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	3.1	2.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.8	2.0	<10	1		µg/L	GE	0
		Selenium, total recoverable	3.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<170	<40	<500	<500	250		µg/L	GE	0
		1,1-Dichloroethane	<170	<40	<500	<500	250		µg/L	GE	0
		1,1-Dichloroethylene	<170	<40	<500	<500	250		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<40	<500	<500	250		µg/L	GE	0
		PCB 1016		<0.12					µg/L		
		PCB 1221		<0.12					µg/L		
		PCB 1232		<0.12					µg/L		
		PCB 1242		<0.12					µg/L		
		PCB 1248		<0.12					µg/L		
		PCB 1254		<0.12					µg/L		
		PCB 1260		<0.12					µg/L		
		1,1,2,2-Tetrachloroethane	<170	<40	<500	<500	250		µg/L	GE	0
■		Tetrachloroethylene	2,700	1,600	11,000	2,400	250		µg/L	GE	2
		1,1,1-Trichloroethane	<170	<40	<500	<500	250		µg/L	GE	0
■		Trichloroethylene	7,300	5,300	18,000	4,900	250		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	1,600			1,100	1	V	µg/L	GE	2
		Chloride	1,300			1,000	1		µg/L	GE	0
		Chromium, total recoverable	4.9	5.4		2.7	1	JE	µg/L	GE	0
		Cobalt, total recoverable		0.85		0.23	1	JE	µg/L	GE	0
		Copper, total recoverable		<2.2		3.5	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<0.37	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.037		0.24	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	6,800			5,800	4	V	µg/L	GE	1
■		Sodium, total recoverable	56,000			35,000	1		µg/L	GE	
		Sulfate	2,600			1,700	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	4.4		6.3	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.3E+00			6.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.6E+01			4.6E+01	1		pCi/L	GP	1
		Radium, total alpha-emitting	6.0E-01			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 2C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101982.5 E48749.3	33.330848 °N 81.736572 °W	194.7-190.0 ft msl	354.7 ft msl	4" PVC	S	UL
SAMPLE DATE		01/16/95	09/22/95	01/17/96	07/01/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		219.6	219.7	217.5	218.8	ft msl
pH		10.7	11.3	11.0	11.4	pH
Sp. conductance		637	1123	940	700	µS/cm
Water temperature		20.2	22.7	30.0	30.0	°C
Alkalinity as CaCO ₃		186	206	161	125	mg/L
Turbidity		5	3	2	15	NTU
Volume purged		0.72	0.67	0.61	1.3	well volume
Sampling code		X	X	X	X	
Synchronous water level		219.2 (03/23/95)	223.2 (08/08/95)	218.7 (03/13/96)	218.7 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	47	81	69	78	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J3	µg/L	GE	0
		Lead, total recoverable	<5.0	2.7	2.2	2.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	0.91	<10	0.95	1	JE	µg/L	GE	0
		Selenium, total recoverable	3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<420	<500	<2,000	<1,000	500		µg/L	GE	0
		1,1-Dichloroethane	<420	<500	<2,000	<1,000	500		µg/L	GE	0
		1,1-Dichloroethylene	<420	<500	<2,000	<1,000	500		µg/L	GE	0
		trans-1,2-Dichloroethylene	<420	<500	<2,000	<1,000	500		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<420	<2,500	<2,000	<1,000	500		µg/L	GE	0
	■	Tetrachloroethylene	13,000	14,000	11,000	14,000	500		µg/L	GE	2
		1,1,1-Trichloroethane	<420	<500	<2,000	<1,000	500		µg/L	GE	0
	■	Trichloroethylene	11,000	10,000	11,000	22,000	500		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
	■	Aluminum, total recoverable	540			490	1	V	µg/L	GE	2
		Chloride	2,000			3,000	1		µg/L	GE	0
		Chromium, total recoverable	13	6.1		3.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.49	1	JE	µg/L	GE	0
		Copper, total recoverable		<1.3		<4.0	1		µg/L	GE	0
		Fluoride				20	1	JE	µg/L	GE	0
		Manganese, total recoverable	11			23	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.046		0.24	1		µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	12,000			11,000	10	V	µg/L	GE	2
	■	Sodium, total recoverable	64,000			21,000	1		µg/L	GE	0
		Sulfate	2,900			1,300	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	4.1	5.0		10	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E+00			5.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.0E+01			1.3E+01	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.7E+00			1.8E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 2D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102014.0 E48755.7	33.330928 °N 81.736617 °W	230.1-210.7 ft msl	353.8 ft msl	4" PVC	S	M

SAMPLE DATE	01/16/95	09/22/95	01/17/96	07/01/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.3	233.0	232.2	232.1	ft msl
pH	4.4	4.5	5.0	4.4	pH
Sp. conductance	51	35	46	46	µS/cm
Water temperature	19.5	22.4	31.0	30.0	°C
Alkalinity as CaCO ₃	0	0	2	0	mg/L
Turbidity	3	18	6	4	NTU
Volume purged	1.6	1.2	1.1	3.4	well volume
Sampling code	X	X	X		
Synchronous water level	232.4 (03/23/95)	232.7 (08/08/95)	232.2 (03/13/96)	231.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	15	11	8.3	19	1		µg/L	GE	0
		Cyanide	<8.3	150	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	<5.0	1.3	<5.0	3.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.2	1.1	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	3.9	2.8	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<17	<100	<50	<40	20		µg/L	GE	0
		1,1-Dichloroethane	<17	<100	<50	<40	20		µg/L	GE	0
		1,1-Dichloroethylene	<17	<100	<50	<40	20		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<100	<50	<40	20		µg/L	GE	0
		PCB 1016	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.83	<0.13	<0.13	<0.13	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<17	<500	<50	<40	20		µg/L	GE	0
■		Tetrachloroethylene	1,000	5,300	3,600	460	20		µg/L	GE	2
		1,1,1-Trichloroethane	<17	<100	<50	<40	20		µg/L	GE	0
■		Trichloroethylene	940	2,800	3,000	370	20		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	190		260	290	1	V	µg/L	GE	2
		Chloride	2,100			2,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	4.9		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.45	1	JE	µg/L	GE	0
		Copper, total recoverable		7.4		4.0	1		µg/L	GE	0
		Fluoride				51	1	JE	µg/L	GE	0
		Manganese, total recoverable	21		16	14	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.28	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	2,800		1,400	4,100	4	V	µg/L	GE	0
		Sodium, total recoverable	2,100			2,500	1		µg/L	GE	0
		Sulfate	<1,700			120	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	10	14		8.6	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+01		3.6E+00	1.4E+01	1		pCi/L	GP	1
		Nonvolatile beta	6.6E+00		2.5E+00	5.8E+00	1		pCi/L	GP	0
■		Radium, total alpha-emitting	1.1E+01			8.9E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 3B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102191.7 E48568.0	33.331014 °N 81.737457 °W	145.8-141.1 ft msl	361 ft msl	4" PVC	S	LL
SAMPLE DATE		08/23/95	01/16/96	09/04/96		
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation					211.0	ft msl
pH			6.2	6.2		pH
Sp. conductance			53	62		µS/cm
Water temperature			19.4	31.0		°C
Alkalinity as CaCO ₃			13	11		mg/L
Turbidity			3	1		NTU
Volume purged						well volume
Sampling code		S	S			
Synchronous water level		(08/08/95)	(03/13/96)	210.4 (09/19/96)		ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable		12	12	12	1		µg/L	WA	0
		Cyanide		<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable		<3.0	<5.0	13	1	JE	µg/L	WA	0
		Nickel, total recoverable		1.0	<1.2	1.1	1	JE	µg/L	GE	0
		Selenium, total recoverable		<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene		<50	<50	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<50	<50	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<50	<50	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		<50	<50	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<250	<50	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene		200	160	100	1		µg/L	WA	2
		1,1,1-Trichloroethane		<50	<50	<2.0	1		µg/L	GE	0
	■	Trichloroethylene		1,100	1,100	2,200	20		µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable				<20	1		µg/L	GE	0
		Chloride				2,400	1	V	µg/L	GE	0
		Chromium, total recoverable		0.64		1.5	1	JE	µg/L	WA	0
		Cobalt, total recoverable				1.2	1	JE	µg/L	GE	0
		Copper, total recoverable		<3.4		7.3	1		µg/L	GE	0
		Fluoride				<29	1	V	µg/L	WA	0
		Manganese, total recoverable				19	1		µg/L	GE	0
		Mercury, total recoverable		<0.20		0.040	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				1,800	1	V	µg/L	GE	0
		Sodium, total recoverable				2,200	1	V	µg/L	WA	0
		Sulfate				440	1		µg/L	WA	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable		3.0		14	1		µg/L	GE	0
Radionuclides											
		Gross alpha				1.5E+00	1	J1	pCi/L	TM	0
		Nonvolatile beta				-1.8E-01	1	UI	pCi/L	TM	0
		Radium, total alpha-emitting				6.7E-01	1		pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 3C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102189.6 E48538.5	33.330961 °N 81.737530 °W	193.7-189.0 ft msl	360.8 ft msl	4" PVC	S	UL

SAMPLE DATE	09/22/95	01/17/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		220.9	219.2	219.9	ft msl
pH		11.8	12.0	11.0	pH
Sp. conductance		2480	3020	3000	µS/cm
Water temperature		22.4	30.0	26.0	°C
Alkalinity as CaCO ₃		580	650	3550	mg/L
Turbidity		3	3	1	NTU
Volume purged		0.62	0.56	0.59	well volume
Sampling code		X	X	X	
Synchronous water level		224.7 (08/08/95)	220.1 (03/13/96)	219.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable		350	450	580	1		µg/L	GE	0	
		Cyanide		<20	<10	<10	1	Y	µg/L	GE	0	
		Lead, total recoverable		11	18	23	1		µg/L	GE	0	
		Nickel, total recoverable		<10	<10	0.89	1	JE	µg/L	GE	0	
		Selenium, total recoverable		1.8	<5.0	1.6	1	JE	µg/L	GE	0	
		Organics										
		Chlorobenzene		<1,000	<2,000	<500	250	Y	µg/L	GE	0	
		1,1-Dichloroethane		<1,000	<2,000	<500	250	Y	µg/L	GE	0	
		1,1-Dichloroethylene		<1,000	<2,000	<500	250	Y	µg/L	GE	0	
		trans-1,2-Dichloroethylene		<1,000	<2,000	<500	250	Y	µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane		<5,000	<2,000	<500	250	Y	µg/L	GE	0	
		Tetrachloroethylene		34,000	32,000	22,000	250	Y	µg/L	GE	2	
		1,1,1-Trichloroethane		<1,000	<2,000	<500	250	Y	µg/L	GE	0	
		Trichloroethylene		9,000	12,000	10,000	250	Y	µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable				2,900	1		µg/L	GE	2	
		Chloride				570	1		µg/L	GE	0	
		Chromium, total recoverable		7.2		9.2	1		µg/L	GE	0	
		Cobalt, total recoverable				0.46	1	JE	µg/L	GE	0	
		Copper, total recoverable		<3.6		18	1	V	µg/L	GE	0	
		Fluoride				830	5		µg/L	GE	0	
		Manganese, total recoverable				0.14	1	JE	µg/L	GE	0	
		Mercury, total recoverable		<0.070		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen				2,300	2	V	µg/L	GE	0	
		Sodium, total recoverable				51,000	1		µg/L	GE	0	
		Sulfate				2,600	1		µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable		7.2		4.9	1	JE	µg/L	GE	0	
		Radionuclides										
		Gross alpha				5.6E+00	1		pCi/L	GP	0	
		Nonvolatile beta				5.9E+01	1		pCi/L	GP	2	
		Radium, total alpha-emitting				2.6E+00	1	J	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 4B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101978.3 E48312.8	33.330125 °N 81.737714 °W	143.1-138.4 ft msl	355.3 ft msl	4" PVC	S	LL

SAMPLE DATE	01/18/95	08/23/95	01/16/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.1	218.2	204.7	204.8	ft msl
pH	5.5	4.9	5.2	6.4	pH
Sp. conductance	45	26	32	40	µS/cm
Water temperature	18.7	20.0	33.0	25.0	°C
Alkalinity as CaCO ₃	0	0	1	0	mg/L
Turbidity	0	0	1	0	NTU
Volume purged	3.3	4.4	6.0	5.1	well volume
Sampling code					
Synchronous water level	206.6 (03/23/95)	218.1 (08/08/95)	205.4 (03/13/96)	206.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	5.7	6.1	6.1	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	4.5	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<3.0	1.6	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<2.0	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<33	<50	<50	<50	25		µg/L	GE	0
		1,1-Dichloroethane	<33	<50	<50	<50	25		µg/L	GE	0
		1,1-Dichloroethylene	<33	<50	<50	<50	25		µg/L	GE	0
		trans-1,2-Dichloroethylene	<33	<50	<50	<50	25		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<33	<250	<50	<50	25		µg/L	GE	0
■		Tetrachloroethylene	4,800	130	48	43	25	JE	µg/L	GE	2
		1,1,1-Trichloroethane	<33	<50	<50	<50	25		µg/L	GE	0
■		Trichloroethylene	2,400	1,500	1,200	830	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	3,000			2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable		<5.3		0.94	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.6			<1.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.046		<0.20	1	J	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	3,500			1,500	1		µg/L	GE	0
		Sodium, total recoverable	5,400			1,900	1	V	µg/L	GE	0
		Sulfate	<1,700			600	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	7.1	5.6		<3.6	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.8E+00			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.3E+00			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 4C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101963.2 E48313.6	33.330093 °N 81.737682 °W	168.1-163.3 ft msl	355.2 ft msl	4" PVC	S	UL

SAMPLE DATE	01/19/95	09/22/95	01/17/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.1	216.5	215.0	214.7	ft msl
pH	11.6	10.6	11.6	6.4	pH
Sp. conductance	516	3600	520	180	µS/cm
Water temperature	16.4	23.9	32.0	26.0	°C
Alkalinity as CaCO ₃	177	47	62	4	mg/L
Turbidity	3	4	1	0	NTU
Volume purged	0.76	0.57	0.88	2.6	well volume
Sampling code	X	X	X		
Synchronous water level	215.4 (03/23/95)	222.0 (08/08/95)	214.8 (03/13/96)	214.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	180	130	160	68	1	V	µg/L	GE	0
		Cyanide	<8.3	<2.9	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	2.5	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<170	<200	<300	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<170	<200	<300	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<170	<200	<300	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<200	<300	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<1,000	<300	<200	100		µg/L	GE	0
■		Tetrachloroethylene	2,500	2,700	5,100	6,700	100		µg/L	GE	2
		1,1,1-Trichloroethane	<170	<200	<300	<200	100		µg/L	GE	0
●		Trichloroethylene	2,500	2,200	5,400	8,900	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	33			18	1	JE	µg/L	GE	0
		Chloride	3,600			4,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.5		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<1.5	1	V	µg/L	GE	0
		Copper, total recoverable		<1.2		<1.0	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.1			14	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	15,000			19,000	20		µg/L	GE	2
■		Sodium, total recoverable	23,000			13,000	1		µg/L	GE	
		Sulfate	2,200			91	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	7.8		9.1	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.4E+00			9.1E+00	1		pCi/L	GP	1
		Nonvolatile beta	1.2E+01			8.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.6E+00			3.9E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102007.5 E48311.7	33.330188 °N 81.737773 °W	228.4-209.0 ft msl	355.5 ft msl	4" PVC	S	M

SAMPLE DATE	02/02/95	08/23/95	01/16/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.9	231.5	230.4	230.3	ft msl
pH	4.2	4.6	4.7	5.8	pH
Sp. conductance	78	70	82	78	µS/cm
Water temperature	19.5	20.2	32.0	27.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	15	6.8	12	9.4	well volume
Sampling code					
Synchronous water level	230.5 (03/23/95)	231.2 (08/08/95)	230.4 (03/13/96)	230.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	19	16	15	14	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.6	<1.9	1.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.8	<5.0	2.2	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<3.3	<10	<10	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<3.3	<10	<10	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<3.3	<10	<10	<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<3.3	<10	<10	<20	10		µg/L	GE	0
		PCB 1016	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.83	<13	<0.13	<0.13	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<3.3	<50	<10	<20	10		µg/L	GE	0
■		Tetrachloroethylene	110	160	230	180	10		µg/L	GE	2
		1,1,1-Trichloroethane	<3.3	<10	<10	<20	10		µg/L	GE	0
■		Trichloroethylene	130	180	340	220	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	190			170	1		µg/L	GE	2
		Chloride	2,700			2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable		6.3		<1.4	1	V	µg/L	GE	0
		Fluoride				26	1	JE	µg/L	GE	0
		Manganese, total recoverable	15			13	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.10		0.020	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	6,200			4,300	4		µg/L	GE	0
		Sodium, total recoverable	7,500			4,500	1		µg/L	GE	0
		Sulfate	4,000			1,400	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<9.7	1	V	µg/L	GE	0
		Zinc, total recoverable	3.8	9.7		6.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+01			8.9E+00	1		pCi/L	GP	1
		Nonvolatile beta	3.6E+00			4.7E+00	1		pCi/L	GP	0
■		Radium, total alpha-emitting	6.8E+00			5.5E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 5A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101971.5 E46998.7	33.327964 °N 81.741161 °W	247.2-217.2 ft msl	344.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/26/95	09/22/95	01/17/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		228.7	228.5	228.0	ft msl
pH	5.3	5.1	5.2	6.0	pH
Sp. conductance	45	36	32	46	µS/cm
Water temperature	18.9	19.0	33.0	25.0	°C
Alkalinity as CaCO ₃	3	4	1	2	mg/L
Turbidity	1	0	1	2	NTU
Volume purged		13	8.3	10	well volume
Sampling code					
Synchronous water level	228.4 (03/23/95)	(08/07/95)	228.3 (03/13/96)	227.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.7	3.0	3.4	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.2	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	0.93	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	1.7	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	21	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	19	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	1.5	23	<2.0	3.3	1		µg/L	GE	1
		1,1,1-Trichloroethane	<1.7	28	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.4	<2.0	<2.0	6.5	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33		<19	<20	1		µg/L	GE	0
		Chloride	2,300			1,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.71	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.30	1	V	µg/L	GE	0
		Copper, total recoverable		16		19	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.7		4.7	5.3	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.026		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,800		1,900	2,200	2	V	µg/L	GE	0
		Sodium, total recoverable	6,200			4,400	1		µg/L	GE	0
		Sulfate	1,800			360	1	JE	µg/L	GE	0
		Total phosphates (as P)	74			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	6.9	6.3		15	1		µg/L	GE	0
Radionuclides											
		Gross alpha	9.9E-01		1.4E+00	2.8E+00	1		pCi/L	GP	0
		Nonvolatile beta	8.0E-01		1.4E+00	1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.0E-01			8.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 5B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101971.1 E46983.6	33.327939 °N 81.741200 °W	136.1-131.4 ft msl	345 ft msl	4" PVC	S	LL

SAMPLE DATE	01/26/95	09/08/95	01/17/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	212.0	211.6	207.8	207.3	ft msl
pH	5.3	5.0	5.1	6.0	pH
Sp. conductance	21	20	18	30	µS/cm
Water temperature	19.0	19.7	32.0	25.0	°C
Alkalinity as CaCO ₃	1	3	1	1	mg/L
Turbidity	1	2	0	1	NTU
Volume purged	2.9	3.2	4.6	3.6	well volume
Sampling code					
Synchronous water level	211.0 (03/23/95)	213.0 (08/07/95)	208.1 (03/13/96)	209.4 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.4	5.7	5.2	4.0	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<7.6	1	V	µg/L	GE	0
		Lead, total recoverable	<5.0	<6.0	2.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.5	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	4.8	8.3	12	26	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	23			<20	1		µg/L	GE	0
		Chloride	2,400			1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.59	1	V	µg/L	GE	0
		Copper, total recoverable		<4.0		<3.5	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.6			3.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	220			580	1	V	µg/L	GE	0
		Sodium, total recoverable	1,600			1,500	1		µg/L	GE	0
		Sulfate	1,900			550	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			17	1	JE	µg/L	GE	1
		Zinc, total recoverable	12	<12		4.2	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	5.7E-01			4.7E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.2E+00			1.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			3.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 5C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101970.4 E46968.6	33.327913 °N 81.741238 °W	188.1-183.4 ft msl	345.2 ft msl	4" PVC	S	UL

SAMPLE DATE	01/27/95	09/12/95	01/19/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.6	224.4	223.8	223.4	ft msl
pH	6.0	8.7	6.2	6.2	pH
Sp. conductance	260	294	50	200	µS/cm
Water temperature	17.0	19.2	30.0	25.0	°C
Alkalinity as CaCO ₃	23	46	39	1	mg/L
Turbidity	72	22	13	1	NTU
Volume purged	1.3	1.0	1.0	3.5	well volume
Sampling code	X	X	X		
Synchronous water level	224.2 (03/23/95)	224.9 (08/07/95)	223.8 (03/13/96)	223.4 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	72	89	81	40	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<4.3	1	V	µg/L	GE	0
		Lead, total recoverable	9.5	4.5	7.1	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.98	1.6	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	1.5	<5.0	2.0	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<17	<20	<20	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<17	<20	<20	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	26	23	36	49	10		µg/L	GE	2
		trans-1,2-Dichloroethylene	<17	<20	<20	<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<100	<20	<20	10		µg/L	GE	0
		Tetrachloroethylene	210	220	180	190	10		µg/L	GE	2
		1,1,1-Trichloroethane	15	13	<20	11	10	JE	µg/L	GE	0
		Trichloroethylene	11	16	18	19	10	JE	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	130			<20	1		µg/L	GE	0
		Chloride	4,100			4,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	3.1		1.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				2.0	1	JEV	µg/L	GE	0
		Copper, total recoverable		1.3		<2.4	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	65			22	1	V	µg/L	GE	0
		Mercury, total recoverable	0.84	0.52		1.3	1		µg/L	GE	1
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	20,000			22,000	50	V	µg/L	GE	2
		Sodium, total recoverable	27,000			28,000	1		µg/L	GE	
		Sulfate	1,100			570	1	JE	µg/L	GE	0
		Total phosphates (as P)	470			200	1		µg/L	GE	
		Uranium, total recoverable	<33			11	1	JE	µg/L	GE	1
		Zinc, total recoverable	190	22		11	1		µg/L	GE	0
Radionuclides											
		Gross alpha	8.6E+00			1.3E+01	1		pCi/L	GP	1
		Nonvolatile beta	8.4E+00			9.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.6E+00			4.8E+00	1	V	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 6A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101133.8 E46319.9	33.325004 °N 81.741318 °W	241.9-211.9 ft msl	343.8 ft msl	4" PVC	S	M
SAMPLE DATE		01/26/95	08/21/95	02/08/96	07/10/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		227.1	228.2	228.2	227.6	ft msl
pH		5.0	5.1	5.0	5.4	pH
Sp. conductance		39	39	58	36	µS/cm
Water temperature		18.6	19.0	20.0	25.0	°C
Alkalinity as CaCO ₃		1	0	0	1	mg/L
Turbidity		1	1	4	13	NTU
Volume purged		7.2	6.4	4.5	4.6	well volume
Sampling code						
Synchronous water level		228.0 (03/23/95)	228.2 (08/07/95)	227.9 (03/13/96)	227.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Barium, total recoverable	6.1	6.1	7.2	7.4	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<3.1	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	3.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	1.7	<5.0	1		µg/L	GE	0
<i>Organics</i>											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Aluminum, total recoverable	31		190	<95	1	V	µg/L	GE	0
		Chloride	4,800			4,800	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	0.85		8.1	1		µg/L	GE	0
		Cobalt, total recoverable				0.84	1	JE	µg/L	GE	0
		Copper, total recoverable		<2.8		<2.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.0		7.7	9.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	310		360	730	1	V	µg/L	GE	0
		Sodium, total recoverable	5,600			5,100	1	V	µg/L	GE	0
		Sulfate	1,600			300	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
<i>Radionuclides</i>											
		Gross alpha	1.0E+00		3.7E+00	6.4E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.7E+00		3.5E+00	9.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.7E+00			1.7E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 6B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101148.5 E46321.6	33.325039 °N 81.741342 °W	129.8-125.1 ft msl	343.9 ft msl	4" PVC	S	LL

SAMPLE DATE	01/18/95	09/11/95	01/19/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	208.7	208.4	157.1	206.3	ft msl
pH	5.7	5.3	5.2	6.4	pH
Sp. conductance	40	47	46	70	µS/cm
Water temperature	19.1	19.9	32.0	27.0	°C
Alkalinity as CaCO ₃	7	1	3	4	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	2.4	3.3	10	3.8	well volume
Sampling code					
Synchronous water level	208.4 (03/23/95)	209.3 (08/07/95)	207.1 (03/13/96)	206.5 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	23	22	23	23	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<1.9	1	V	µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	0.95	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<1.8	<5.0	2.8	1	JE	µg/L	GE	0	
		Organics										
●		Chlorobenzene	<42	<100	<50	<40	20	J1	µg/L	GE	0	
●		1,1-Dichloroethane	<42	<100	<50	<40	20	J1	µg/L	GE	0	
●		1,1-Dichloroethylene	<42	<100	<50	<40	20	J1	µg/L	GE	0	
●		trans-1,2-Dichloroethylene	<84	<100	<50	<40	20	J1	µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
●		1,1,2,2-Tetrachloroethane	<42	<500	<50	<40	20	J1	µg/L	GE	0	
●		Tetrachloroethylene	49	55	44	<40	20	J1	µg/L	GE	0	
●		1,1,1-Trichloroethane	<42	<100	<50	<40	20	J1	µg/L	GE	0	
● ■		Trichloroethylene	1,600	2,000	1,700	1,200	20	J1	µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
■		Aluminum, total recoverable	<33			160	1		µg/L	GE	2	
		Chloride	2,200			1,800	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		0.73	1	JE	µg/L	GE	0	
		Cobalt, total recoverable				<0.96	1	V	µg/L	GE	0	
		Copper, total recoverable		0.77		<2.6	1	V	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	11	8.2		7.6	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	0.20		0.83	1		µg/L	GE	0	
		Nitrate as nitrogen										
■		Nitrate-nitrite as nitrogen	2,600			3,300	5	V	µg/L	GE	0	
		Sodium, total recoverable	3,100			3,000	1		µg/L	GE	0	
		Sulfate	1,300			160	1	JE	µg/L	GE	0	
		Total phosphates (as P)	<83			150	1		µg/L	GE	0	
		Uranium, total recoverable	<33			20	1	JE	µg/L	GE	1	
		Zinc, total recoverable	4.3	<4.7		4.1	1	JE	µg/L	GE	0	
		Radionuclides										
		Gross alpha	2.3E+00			5.3E+00	1		pCi/L	GP	0	
		Nonvolatile beta	2.8E+00			4.9E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	1.2E+00			1.1E+00	1	UIV	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 6C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101169.1 E46324.1	33.325089 °N 81.741376 °W	194.0-189.3 ft msl	343.8 ft msl	4" PVC	S	UL
SAMPLE DATE		01/27/95	09/12/95	01/19/96	07/17/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		224.3	224.8	224.8	224.2	ft msl
pH		5.9	6.4	5.6	6.2	pH
Sp. conductance		696	502	520	360	µS/cm
Water temperature		17.7	18.7	30.0	27.0	°C
Alkalinity as CaCO ₃		25	59	52	12	mg/L
Turbidity		156	26	10	3	NTU
Volume purged		1.0	0.82	0.73	3.5	well volume
Sampling code		X	X	X		
Synchronous water level		224.9 (03/23/95)	225.0 (08/07/95)	224.7 (03/13/96)	226.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	63	38	47	16	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	8.4	4.9	3.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.7	1.6	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	3.9	2.4	3.5	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	1.7	<10	1.3	1.8	1	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<50	<2.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene	140	180	110	89	1		µg/L	GE	2
		1,1,1-Trichloroethane	1.7	<10	<2.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene	35	44	28	37	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	190			<20	1		µg/L	GE	0
		Chloride	4,000			3,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.3		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.48	1	V	µg/L	GE	0
		Copper, total recoverable		2.2		<2.8	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	46			8.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	46,000			41,000	50	V	µg/L	GE	2
	■	Sodium, total recoverable	130,000			78,000	1		µg/L	GE	0
	■	Sulfate	4,700			6,000	1		µg/L	GE	0
		Total phosphates (as P)	1,600			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			13	1	JE	µg/L	GE	1
		Zinc, total recoverable	510	48		12	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.0E+00			5.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+01			1.4E+01	1		pCi/L	GP	0
		Radium, total alpha-emitting	7.0E+00			1.1E+00	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 7A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100585.7 E46726.1	33.324456 °N 81.739182 °W	242.0-212.0 ft msl	344.3 ft msl	4" PVC	S	M

SAMPLE DATE	01/26/95	08/18/95	01/25/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	227.8	229.0	228.7	228.5	ft msl
pH	4.7	4.7	4.6	5.2	pH
Sp. conductance	38	37	342	38	µS/cm
Water temperature	18.2	19.8	0.0	25.0	°C
Alkalinity as CaCO ₃	1	1	0	1	mg/L
Turbidity	1	1	1	5	NTU
Volume purged	6.5	7.3	3.3	3.9	well volume
Sampling code					
Synchronous water level	229.0 (03/23/95)	229.0 (08/07/95)	228.9 (03/13/96)	228.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	14	12	11	12	1	V	µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.6	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.1	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	2.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.20	<2.0	0.10	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.10	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33		<26	<38	1	V	µg/L	GE	0
		Chloride	3,700			3,000	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	0.78		1.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable		<0.24		0.26	1	JE	µg/L	GE	0
		Copper, total recoverable		1.8		<3.0	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	27		22	22	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.094		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200		1,500	1,900	1	V	µg/L	GE	0
		Sodium, total recoverable	4,000			5,100	1	V	µg/L	GE	0
		Sulfate	1,400			<1,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			110	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<3.9		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.6E+00		2.4E+00	3.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	9.0E-01		9.3E-01	1.4E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.3E+00			2.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 7B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100597.6 E46718.1	33.324469 °N 81.739227 °W	147.5-142.7 ft msl	344.1 ft msl	4" PVC	S	LL
SAMPLE DATE		01/27/95	09/12/95	01/19/96	07/17/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		208.5	209.0	207.5	206.9	ft msl
pH		6.8	6.4	6.6	6.2	pH
Sp. conductance		164	144	160	98	µS/cm
Water temperature		17.3	19.2	32.0	26.0	°C
Alkalinity as CaCO ₃		40	50	63	20	mg/L
Turbidity		47	16	14	3	NTU
Volume purged		1.7	1.2	1.0	4.2	well volume
Sampling code		X	X	X		
Synchronous water level		209.0 (03/23/95)	209.9 (08/07/95)	207.6 (03/13/96)	207.2 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Barium, total recoverable	48	51	73	42	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<1.6	1	V	µg/L	GE	0
		Lead, total recoverable	<5.0	3.9	9.6	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	4.4	5.7	1.5	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.3	<5.0	<5.0	1		µg/L	GE	0
<i>Organics</i>											
●		Chlorobenzene	<1.7	<0.050	<2.0	<10	5	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7	<0.050	<2.0	<10	5	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7	0.52	<2.0	<10	5	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<10	5	J1	µg/L	GE	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		
●		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<10	5	J1	µg/L	GE	0
● ■		Tetrachloroethylene	84	31	10	100	5	J1	µg/L	GE	2
●		1,1,1-Trichloroethane	<1.7	0.18	<2.0	<10	5	J1	µg/L	GE	0
● ■		Trichloroethylene	56	20	4.6	28	5	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Aluminum, total recoverable	180			29	1		µg/L	GE	1
		Chloride	2,300			2,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.68		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		0.32		<0.54	1	V	µg/L	GE	0
		Copper, total recoverable		<4.0		<2.1	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	11			11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	5,900			7,900	10	V	µg/L	GE	1
■		Sodium, total recoverable	9,800			6,900	1		µg/L	GE	
		Sulfate	2,600			2,500	1		µg/L	GE	0
		Total phosphates (as P)	1,300			40	1	JE	µg/L	GE	
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	11	14		12	1		µg/L	GE	0
<i>Radionuclides</i>											
		Gross alpha	4.3E+00			2.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.3E+00			2.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+00			1.4E+00	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 7C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100609.2 E46709.1	33.324480 °N 81.739273 °W	200.1-195.4 ft msl	344.5 ft msl	4" PVC	S	UL

SAMPLE DATE	01/27/95	09/12/95	01/19/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.4	223.6	223.4	222.8	ft msl
pH	5.8	6.4	5.6	5.4	pH
Sp. conductance	362	320	32	240	µS/cm
Water temperature	17.4	19.1	31.0	25.0	°C
Alkalinity as CaCO ₃	15	15	12	0	mg/L
Turbidity	12	6	5	1	NTU
Volume purged	0.85	0.65	0.76	3.4	well volume
Sampling code	X	X	X		
Synchronous water level	223.5 (03/23/95)	223.8 (08/07/95)	223.3 (03/13/96)	222.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	43	42	42	34	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	12	<3.4	1	V	µg/L	GE	0
		Lead, total recoverable	5.3	6.8	5.9	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	3.4	3.3	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.080	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	3.4	3.0	3.4	4.6	1		µg/L	GE	1
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	45	35	31	37	1		µg/L	GE	2
		1,1,1-Trichloroethane	2.7	1.4	1.3	1.4	1	JE	µg/L	GE	0
■		Trichloroethylene	17	13	13	19	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	290			83	1		µg/L	GE	2
		Chloride	4,200			4,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.66		0.65	1	JE	µg/L	GE	0
		Cobalt, total recoverable		3.8		3.3	1	JEV	µg/L	GE	0
		Copper, total recoverable		<4.0		<4.2	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	50			34	1	V	µg/L	GE	1
		Mercury, total recoverable	0.23	0.26		0.075	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	32,000			30,000	50	V	µg/L	GE	2
■		Sodium, total recoverable	48,000			42,000	1		µg/L	GE	
		Sulfate	<1,700			110	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			130	1		µg/L	GE	
		Uranium, total recoverable	<33			8.8	1	JE	µg/L	GE	0
		Zinc, total recoverable	9.1	18		6.9	1		µg/L	GE	0
Radionuclides											
		Gross alpha	7.5E+00			1.5E+01	1		pCi/L	GP	1
		Nonvolatile beta	8.1E+01			4.5E+01	1		pCi/L	GP	1
■		Radium, total alpha-emitting	6.7E+00			5.1E+00	1	V	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 8A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100815.1 E47293.2	33.325889 °N 81.738135 °W	242.4-212.4 ft msl	344.2 ft msl	4" PVC	S	M
SAMPLE DATE		02/06/95	08/23/95	01/16/96	07/19/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		229.7	230.4	230.2	229.9	ft msl
pH		4.3	4.8	4.5	5.6	pH
Sp. conductance		40	43	52	56	µS/cm
Water temperature		17.8	19.4	32.0	26.0	°C
Alkalinity as CaCO ₃		0	0	0	0	mg/L
Turbidity		1	1	0	0	NTU
Volume purged		5.8	6.0	7.3	7.1	well volume
Sampling code						
Synchronous water level		230.1 (03/23/95)	230.4 (08/07/95)	230.1 (03/13/96)	229.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.1	6.9	7.8	7.5	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<3.2	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	3.0	<10	<1.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	2.8	1.7	2.9	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<10	<4.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<10	<4.0	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<10	<4.0	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<10	<4.0	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
	■	1,1,2,2-Tetrachloroethane	<1.7	<50	<4.0	23	5		µg/L	GE	0
	■	Tetrachloroethylene	88	63	92	21	5		µg/L	GE	2
	■	1,1,1-Trichloroethane	<1.7	<10	<4.0	<10	5		µg/L	GE	0
	■	Trichloroethylene	16	20	29	9.5	5	JE	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	94		<38	<20	1		µg/L	GE	0
		Chloride	2,000			2,000	1		µg/L	GE	0
		Chromium, total recoverable	4.9	0.88	1.0	1.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.7	1	JEV	µg/L	GE	0
		Copper, total recoverable		<3.8		2.8	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	20		20	21	1	V	µg/L	GE	0
		Mercury, total recoverable	0.073	0.042		0.027	1	JE	µg/L	GE	0
		Nitrate as nitrogen	2,600						µg/L		
	■	Nitrate-nitrite as nitrogen	2,600		2,800	4,000	4	V	µg/L	GE	0
		Sodium, total recoverable	3,000			3,400	1		µg/L	GE	0
		Sulfate	350			290	1	JE	µg/L	GE	0
		Total phosphates (as P)	22			60	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.5		<6.2	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+01		4.9E+00	5.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	8.4E+00		7.1E+00	3.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.3E+00			3.0E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 8B

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100805.8 E47281.9	33.325850 °N 81.738147 °W	150.8-146.1 ft msl	343.9 ft msl	4" PVC	S	LL

SAMPLE DATE	02/02/95	08/23/95	01/16/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	211.2	212.2	208.5	208.1	ft msl
pH	5.0	5.0	5.4	6.0	pH
Sp. conductance	27	35	34	38	µS/cm
Water temperature	18.7	19.0	32.0	26.0	°C
Alkalinity as CaCO ₃	1	0	2	1	mg/L
Turbidity	0	1	1	1	NTU
Volume purged	3.5	6.1	4.4	4.1	well volume
Sampling code					
Synchronous water level	210.5 (03/23/95)	212.1 (08/07/95)	208.9 (03/13/96)	209.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	9.4	13	8.9	9.5	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.4	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016	<0.83						µg/L		
		PCB 1221	<0.83						µg/L		
		PCB 1232	<0.83						µg/L		
		PCB 1242	<0.83						µg/L		
		PCB 1248	<0.83						µg/L		
		PCB 1254	<0.83						µg/L		
		PCB 1260	<0.83						µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	3.0	12	3.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		■ Trichloroethylene	18	32	28	25	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	2,200			2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.7		2.3	1		µg/L	GE	0
		Cobalt, total recoverable				<1.0	1	V	µg/L	GE	0
		Copper, total recoverable		<5.0		2.3	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.2			<3.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.020		0.028	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200			1,900	2	V	µg/L	GE	0
		Sodium, total recoverable	2,200			2,100	1		µg/L	GE	0
		Sulfate	<1,700			420	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.4	8.4		<7.3	1	V	µg/L	GE	0
		Radionuclides									
		Gross alpha	8.7E-01			4.5E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.5E+00			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 8C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100793.2 E47264.6	33.325794 °N 81.738168 °W	195.9-191.2 ft msl	344 ft msl	4" PVC	S	UL
SAMPLE DATE		02/02/95	08/23/95	01/16/96	07/19/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		221.1	222.2	220.6	220.6	ft msl
pH		4.7	4.8	4.5	5.6	pH
Sp. conductance		250	245	340	290	µS/cm
Water temperature		18.4	19.1	30.0	25.0	°C
Alkalinity as CaCO ₃		0	0	0	0	mg/L
Turbidity		1	0	1	1	NTU
Volume purged		4.0	3.9	3.3	4.4	well volume
Sampling code						
Synchronous water level		221.3 (03/23/95)	222.0 (08/07/95)	220.8 (03/13/96)	220.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	59	58	66	71	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.7	1.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<2.7	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<10	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<10	<10	<2.0	1		µg/L	GE	0
■		1,1-Dichloroethylene	14	12	20	13	1		µg/L	GE	2
		trans-1,2-Dichloroethylene	<8.3	<10	<10	<2.0	1		µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				0.44	1		µg/L	GE	1
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<8.3	<50	<10	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	100	96	100	48	1		µg/L	GE	2
		1,1,1-Trichloroethane	10	6.9	6.6	3.9	1		µg/L	GE	0
■		Trichloroethylene	58	46	68	38	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	89			110	1	V	µg/L	GE	2
■		Chloride	5,000			4,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.68	1	JE	µg/L	GE	0
		Cobalt, total recoverable				2.6	1	JEV	µg/L	GE	0
		Copper, total recoverable		<6.6		6.2	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	27			35	1	V	µg/L	GE	1
		Mercury, total recoverable	0.29	0.26		0.28	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	26,000			15,000	50	V	µg/L	GE	2
■		Sodium, total recoverable	21,000			24,000	1		µg/L	GE	0
		Sulfate	<1,700			370	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			270	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.7	7.4		<15	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	8.4E+00			6.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.2E+01			3.6E+01	1		pCi/L	GP	1
		Radium, total alpha-emitting	5.8E+00			3.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 13A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101725.7 E47525.4	33.328281 °N 81.739296 °W	136.4-131.4 ft msl	346.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/20/95	09/05/95	01/19/96	07/18/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	212.6	213.4	207.4	206.7	ft msl
pH	4.9	4.9	4.9	6.0	pH
Sp. conductance	33	29	30	46	µS/cm
Water temperature	19.0	19.8	32.0	26.0	°C
Alkalinity as CaCO ₃	0	1	1	1	mg/L
Turbidity	1	1	1	0	NTU
Volume purged	3.5	3.7	3.2	3.6	well volume
Sampling code					
Synchronous water level	211.0 (03/23/95)	213.7 (08/07/95)	207.6 (03/13/96)	209.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	7.4	6.5	6.7	6.8	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1	Y	µg/L	GE	0	
		Lead, total recoverable	<5.0	1.4	<5.0	<5.0	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<10	5	Y	µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<10	5	Y	µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<10	5	Y	µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<10	5	Y	µg/L	GE	0	
		PCB 1016				<0.13	1		µg/L	GE	0	
		PCB 1221				<0.13	1		µg/L	GE	0	
		PCB 1232				<0.13	1		µg/L	GE	0	
		PCB 1242				<0.13	1		µg/L	GE	0	
		PCB 1248				<0.13	1		µg/L	GE	0	
		PCB 1254				<0.13	1		µg/L	GE	0	
		PCB 1260				<0.13	1	J	µg/L	GE	0	
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<10	5	Y	µg/L	GE	0	
		Tetrachloroethylene	1.3	1.1	1.7	<10	5	Y	µg/L	GE	0	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<10	5	Y	µg/L	GE	0	
		Trichloroethylene	710	320	620	550	50	Y	µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	27			<20	1		µg/L	GE	0	
		Chloride	2,400			1,800	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	0.60		<4.0	1		µg/L	GE	0	
		Cobalt, total recoverable				<0.79	1	V	µg/L	GE	0	
		Copper, total recoverable		1.6		<4.1	1	V	µg/L	GE	0	
		Fluoride				<100	1	Y	µg/L	GE	0	
		Manganese, total recoverable	2.0			2.2	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	1,700			2,400	2	VY	µg/L	GE	0	
		Sodium, total recoverable	2,300			2,200	1		µg/L	GE	0	
		Sulfate	1,500			550	1	JEY	µg/L	GE	0	
		Total phosphates (as P)	<83			220	1	Y	µg/L	GE	0	
		Uranium, total recoverable	<33			12	1	JE	µg/L	GE	1	
		Zinc, total recoverable	19	21		16	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	1.2E+00			1.5E+00	1		pCi/L	GP	0	
		Nonvolatile beta	1.7E+00			1.8E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	1.4E+00			4.0E-01	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 13CC

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101728.8 E47525.7	33.328288 °N 81.739301 °W	196.8-192.0 ft msl	346.9 ft msl	4" PVC	S	UL
SAMPLE DATE		01/31/95	09/13/95	01/19/96	07/18/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		225.4	226.0	225.3	225.0	ft msl
pH		4.9	5.7	5.2	6.0	pH
Sp. conductance		179	141	140	100	µS/cm
Water temperature		17.1	20.5	30.0	27.0	°C
Alkalinity as CaCO ₃		2	4	3	1	mg/L
Turbidity		1	2	1	1	NTU
Volume purged		0.82	0.67	0.73	2.4	well volume
Sampling code		X	X	X		
Synchronous water level		225.7 (03/23/95)	226.7 (08/07/95)	225.3 (03/13/96)	225.0 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	1.7	1.8	1.2	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	20	21	32	4.0	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.8	1.8	0.97	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.0	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		1,1-Dichloroethylene	2.2	1.8	2.0	<4.0	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<4.0	2		µg/L	GE	0
	■	Tetrachloroethylene	14	19	12	12	2		µg/L	GE	2
		1,1,1-Trichloroethane	3.0	<2.0	2.3	<4.0	2		µg/L	GE	0
	■	Trichloroethylene	12	15	12	14	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	79			<20	1		µg/L	GE	0
		Chloride	2,300			2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.42	1	V	µg/L	GE	0
		Copper, total recoverable		59		13	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	8.6			2.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.14		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	16,000			8,500	10	V	µg/L	GE	1
	■	Sodium, total recoverable	17,000			20,000	1		µg/L	GE	
	■	Sulfate	4,400			6,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			80	1		µg/L	GE	
		Uranium, total recoverable	<33			12	1	JE	µg/L	GE	1
		Zinc, total recoverable	180	230		12	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.9E-01			2.0E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	3.0E+00			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 13D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101778.1 E47517.5	33.328384 °N 81.739418 °W	231.5-211.5 ft msl	347.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/31/95	09/13/95	01/19/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.3	229.5	229.1	228.8	ft msl
pH	6.1	6.3	6.1	6.4	pH
Sp. conductance	573	514	660	420	µS/cm
Water temperature	17.1	20.1	24.0	31.0	°C
Alkalinity as CaCO ₃	33	42	35	33	mg/L
Turbidity	24	15	11	6	NTU
Volume purged	1.1	1.0	0.95	0.88	well volume
Sampling code	X	X	X	X	
Synchronous water level	229.1 (03/23/95)	229.5 (08/07/95)	229.0 (03/13/96)	228.7 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	29	25	22	17	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	5.6	3.9	15	1.3	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.3	2.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	9.1	6.6	8.1	6.5	1		µg/L	GE	1
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	39	47	34	9.2	1		µg/L	GE	2
		1,1,1-Trichloroethane	12	16	11	8.4	1		µg/L	GE	0
■		Trichloroethylene	21	23	18	14	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	58		<63	<20	1		µg/L	GE	0
		Chloride	3,300			3,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.38	1	V	µg/L	GE	0
		Copper, total recoverable		4.0		8.1	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.8		14	<2.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	54,000		43,000	42,000	50		µg/L	GE	2
■		Sodium, total recoverable	110,000			92,000	1		µg/L	GE	
■		Sulfate	3,100			5,100	1		µg/L	GE	0
		Total phosphates (as P)	<83			140	1		µg/L	GE	
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	20	22		<25	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00		5.4E-01	2.9E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.6E+00		1.2E+01	8.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 39A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100837.6 E48367.3	33.327693 °N 81.735351 °W	111.7-106.1 ft msl	341.6 ft msl	4" PVC	S	MCBC
SAMPLE DATE		01/26/95	09/22/95	01/23/96	08/03/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		211.2	210.2	209.1	208.8	ft msl
pH		6.0	6.5	5.0	5.6	pH
Sp. conductance		80	115	27	50	µS/cm
Water temperature		18.2	20.6	19.1	21.0	°C
Alkalinity as CaCO ₃		19	30	2	8	mg/L
Turbidity		1	1	1	3	NTU
Volume purged		0.97	0.85	2.1	0.91	well volume
Sampling code		X	X	X	X	
Synchronous water level		210.8 (03/23/95)	212.6 (08/08/95)	209.6 (03/13/96)	209.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	11	7.8	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<1.4	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	5.2	1.3	<5.9	14	1	J	µg/L	GE	0
		Nickel, total recoverable	4.7	3.2	5.5	5.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.3	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				<0.13	1		µg/L	GE	0
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.7	5.6	3.4	6.3	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	130			350	1		µg/L	GE	2
		Chloride	2,500			2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.80		<1.2	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.5	1	V	µg/L	GE	0
		Copper, total recoverable		<2.9		10	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	22			32	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600			2,700	2	V	µg/L	GE	0
		Sodium, total recoverable	4,500			4,700	1	V	µg/L	GE	0
		Sulfate	5,100			4,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			40	1	JE	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	97	53		83	1		µg/L	GE	0

Radionuclides

Gross alpha	1.3E+00	1.0E+00	1		pCi/L	GP	0
Nonvolatile beta	2.4E+00	2.3E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	8.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 57D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101829.5 E48701.5	33.330431 °N 81.736401 °W	229.6-210.1 ft msl	356.2 ft msl	4" PVC	S	M

SAMPLE DATE	01/31/95	09/13/95	02/13/96	08/05/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.3	233.1	232.3	231.9	ft msl
pH	4.9	9.4	4.8	4.6	pH
Sp. conductance	48	53	58	52	µS/cm
Water temperature	17.8	20.8	0.3	30.0	°C
Alkalinity as CaCO ₃	3	5	1	1	mg/L
Turbidity	18	21	5	3	NTU
Volume purged	1.2	1.2	0.96	0.98	well volume
Sampling code	X	X	X	X	
Synchronous water level	232.4 (03/23/95)	232.8 (08/08/95)	232.3 (03/13/96)	231.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.1	8.3	7.4	7.4	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<2.9	3.3	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.5	1.3	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.20	<10	<0.25	5		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.36	<10	<0.25	5		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	0.52	<10	<0.25	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.20	<10	<0.25	5		µg/L	GE	0
		PCB 1016	<0.83	<0.13	0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.83	<0.13	0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.83	<0.13	0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.83	<0.13	0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.83	<0.13	0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.83	<0.13	0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.83	<0.13	0.13	<0.13	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<0.20	<10	<0.25	5		µg/L	GE	0
■		Tetrachloroethylene	310	260	150	86	5		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	0.40	<10	<0.25	5		µg/L	GE	0
■		Trichloroethylene	97	120	74	46	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	78		130	83	1		µg/L	GE	2
		Chloride	2,900			3,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		<4.0		0.70	1	JE	µg/L	GE	0
		Copper, total recoverable		4.5		8.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	30		20	19	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.042	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,100		1,600	2,100	2	V	µg/L	GE	0
		Sodium, total recoverable	4,900			2,800	1		µg/L	GE	0
		Sulfate	<1,700			140	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			30	1	JE	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	8.6	13		22	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.1E+00		2.4E+00	3.1E+00	1	V	pCi/L	GP	0
		Nonvolatile beta	2.5E+00		1.6E+00	1.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.6E+00			2.5E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 58D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102200.6 E48693.5	33.331239 °N 81.737144 °W	230.5-211.1 ft msl	357.9 ft msl	4" PVC	S	M
SAMPLE DATE		02/16/95	09/13/95	01/19/96	08/05/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		231.9	232.8	232.2	231.7	ft msl
pH		5.7	6.8	4.6	4.8	pH
Sp. conductance		48	41	100	56	µS/cm
Water temperature		18.7	20.0	27.0	38.0	°C
Alkalinity as CaCO ₃		8	5	1	1	mg/L
Turbidity		32	67	20	19	NTU
Volume purged		1.1	0.84	0.79	0.74	well volume
Sampling code		I	X	X	X	
Synchronous water level		232.1 (01/16/95)	232.6 (08/08/95)	232.1 (03/13/96)	231.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	15	22	16	13	1		µg/L	GE	0
■		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	51	15	42	98	1		µg/L	GE	2
		Nickel, total recoverable	9.1	70	18	33	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<200	<100	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<200	<100	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	3.7	<200	<100	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<200	<100	<100	50		µg/L	GE	0
		PCB 1016	<0.83	<1.3	<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.83	<1.3	<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.83	<1.3	<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.83	<1.3	<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.83	<1.3	<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.83	<1.3	<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.83	<1.3	<0.13	<0.13	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<1,000	<100	<100	50		µg/L	GE	0
■		Tetrachloroethylene	780	3,900	990	700	50		µg/L	GE	2
		1,1,1-Trichloroethane	16	1,100	120	<100	50		µg/L	GE	0
■		Trichloroethylene	1,800	3,600	1,400	1,200	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	110		280	770	1		µg/L	GE	2
		Chloride	4,900			2,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	120		18	1		µg/L	GE	0
		Cobalt, total recoverable	<6.7			1.5	1	JE	µg/L	GE	0
		Copper, total recoverable	84	17		200	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	30		26	22	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.082	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100		990	1,500	1	V	µg/L	GE	0
		Sodium, total recoverable	2,500			2,100	1		µg/L	GE	0
		Sulfate	<1,700			<1,000	1		µg/L	GE	0
		Total phosphates (as P)	82			270	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	140	30		660	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.8E+00		2.4E+00	3.9E+00	1	V	pCi/L	GP	0
		Nonvolatile beta	4.2E+00		2.5E+00	3.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.6E+00			1.5E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 59D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102182.2 E48314.8	33.330579 °N 81.738105 °W	229.3-209.9 ft msl	359.3 ft msl	4" PVC	S	M

SAMPLE DATE	01/27/95	09/13/95	01/19/96	08/05/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.8	231.6	231.1	230.6	ft msl
pH	6.1	5.2	4.8	4.8	pH
Sp. conductance	71	98	77	70	µS/cm
Water temperature	14.8	20.5	29.0	40.0	°C
Alkalinity as CaCO ₃	8	7	2	1	mg/L
Turbidity	15	15	9	1	NTU
Volume purged	1.1	1.1	1.0	0.96	well volume
Sampling code	X	X	X	X	
Synchronous water level	231.1 (03/23/95)	231.5 (08/08/95)	231.0 (03/13/96)	230.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	39	33	28	15	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.4	4.7	6.2	8.8	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	4.2	3.8	2.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<420	<5,000	<2,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethane	<420	<5,000	<2,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethylene	<420	<5,000	<2,000	<2,000	1000		µg/L	GE	0
		trans-1,2-Dichloroethylene	<420	<5,000	<2,000	<2,000	1000		µg/L	GE	0
		PCB 1016	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.83	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.83	<13	<0.13	<0.13	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<420	<25,000	<2,000	<2,000	1000		µg/L	GE	0
■		Tetrachloroethylene	66,000	65,000	67,000	22,000	1000		µg/L	GE	2
		1,1,1-Trichloroethane	<420	<5,000	<2,000	<2,000	1000		µg/L	GE	0
■		Trichloroethylene	20,000	21,000	14,000	5,300	1000		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	230		460	240	1	V	µg/L	GE	2
		Chloride	3,500			3,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.84	1.9	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable			1.8	0.76	1	JE	µg/L	GE	0
		Copper, total recoverable		4.7	6.2	16	1		µg/L	GE	0
		Fluoride				34	1	JE	µg/L	GE	0
■		Manganese, total recoverable	100		81	56	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	0.17		0.17	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	4,500		4,800	3,000	2	V	µg/L	GE	0
		Sodium, total recoverable	7,000			3,000	1	JV	µg/L	GE	0
		Sulfate	1,400			150	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			110	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	27	34	22	26	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.5E+00		2.4E+00	3.7E+00	1	V	pCi/L	GP	0
		Nonvolatile beta	2.5E+00		2.5E+00	2.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.7E+00			1.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 60D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101835.5 E48326.8	33.329833 °N 81.737399 °W	228.3-208.9 ft msl	354.5 ft msl	4" PVC	S	M

SAMPLE DATE	01/31/95	09/13/95	01/19/96	08/05/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.3	231.9	231.3	230.8	ft msl
pH	4.5	5.2	5.2	4.4	pH
Sp. conductance	49	57	92	280	µS/cm
Water temperature	17.4	20.7	25.0	25.0	°C
Alkalinity as CaCO ₃	1	2	1	1	mg/L
Turbidity	21	21	3	1	NTU
Volume purged	1.1	1.2	0.82	0.90	well volume
Sampling code	X	X	X	X	
Synchronous water level	231.3 (03/23/95)	231.7 (08/08/95)	231.1 (03/13/96)	230.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.7	9.0	9.0	7.6	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.9	4.7	7.9	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.3	1.2	2.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<10	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	2.4	<10	3.5	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	6.5	<10	6.8	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<10	<2.0	<10	5		µg/L	GE	0
		PCB 1016	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.83	<0.13	<0.13	<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<50	<2.0	<10	5		µg/L	GE	0
■		Tetrachloroethylene	170	420	710	1,300	20		µg/L	GE	2
		1,1,1-Trichloroethane	6.3	<10	6.6	<10	5		µg/L	GE	0
■		Trichloroethylene	84	130	180	360	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	98			37	1		µg/L	GE	1
		Chloride	2,200			3,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	3.3		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.63	1	JE	µg/L	GE	0
		Copper, total recoverable		6.5		20	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	27			11	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.041		0.034	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,200			3,800	4	V	µg/L	GE	0
■		Sodium, total recoverable	4,400			5,200	1		µg/L	GE	0
		Sulfate	<1,700			340	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			70	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	11	14		37	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.0E+01			8.6E+00	1	V	pCi/L	GP	1
		Nonvolatile beta	5.4E+00			3.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.6E+00			4.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 62B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101865.3 E47906.8	33.329213 °N 81.738563 °W	141.0-136.3 ft msl	349.1 ft msl	4" PVC	S	LL

SAMPLE DATE	02/02/95	09/22/95	02/13/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	214.9	209.9	208.3	209.1	ft msl
pH	5.3	5.6	5.2	5.6	pH
Sp. conductance	33	32	32	28	µS/cm
Water temperature	19.2	19.3	18.0	24.0	°C
Alkalinity as CaCO ₃	5	5	6	2	mg/L
Turbidity	3	4	2	2	NTU
Volume purged	3.6	3.6	4.8	4.0	well volume
Sampling code					
Synchronous water level	210.3 (03/23/95)	216.1 (08/07/95)	208.3 (03/13/96)	208.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	15	16	19	30	1		µg/L	GE	0
		Cyanide	<8.3	<20	5.5	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	6.5	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.5	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene	42	29	37	27	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene	60	48	57	39	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	95			<20	1		µg/L	GE	0
		Chloride	2,000						µg/L		
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable		<1.7		47	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	11		7.3	5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.016		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,000			1,200	1	V	µg/L	GE	0
		Sodium, total recoverable	3,000			3,600	1		µg/L	GE	0
		Sulfate	<1,700			420	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	9.1	4.9		32	1		µg/L	GE	0
		Radionuclides									
		Gross alpha	6.9E-01			6.1E-01	1		pCi/L	GP	0
		Nonvolatile beta	6.1E-01			1.0E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			0.0E+00	1	UJI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 62C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101857.2 E47895.0	33.329175 °N 81.738578 °W	190.0-185.2 ft msl	349.1 ft msl	4" PVC	S	UL
SAMPLE DATE		02/02/95	09/22/95	02/13/96	08/07/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		224.4	224.6	224.1	223.7	ft msl
pH		5.0	5.1	5.0	5.2	pH
Sp. conductance		186	165	140	120	µS/cm
Water temperature		19.2	19.6	18.0	26.0	°C
Alkalinity as CaCO ₃		1	1	3	1	mg/L
Turbidity		0	0	0	1	NTU
Volume purged		3.0	2.9	6.8	5.6	well volume
Sampling code						
Synchronous water level		224.3 (03/23/95)	226.2 (08/07/95)	223.9 (03/13/96)	223.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Barium, total recoverable	24	21	16	14	1		µg/L	GE	0
		Cyanide	<8.3	<20	<4.8	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.3	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.3	1.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	3.5	1	JE	µg/L	GE	0
<i>Organics</i>											
		Chlorobenzene	<8.3	<10	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<10	<10	<10	5		µg/L	GE	0
■		1,1-Dichloroethylene	15	14	9.5	11	5		µg/L	GE	2
		trans-1,2-Dichloroethylene	<8.3	<10	<10	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.3	<50	<10	<10	5		µg/L	GE	0
■		Tetrachloroethylene	260	220	160	75	5		µg/L	GE	2
		1,1,1-Trichloroethane	10	6.5	<10	<10	5		µg/L	GE	0
■		Trichloroethylene	120	110	75	93	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	4,100			3,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				1.4	1	JE	µg/L	GE	0
		Copper, total recoverable		36		32	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	21			13	1	V	µg/L	GE	0
		Mercury, total recoverable	0.27	0.23		0.26	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	12,000			13,000	10	V	µg/L	GE	2
■		Sodium, total recoverable	26,000			20,000	1	JV	µg/L	GE	0
		Sulfate	<1,700			1,300	1		µg/L	GE	0
		Total phosphates (as P)	<83			250	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	84	110		94	1		µg/L	GE	0
<i>Radionuclides</i>											
		Gross alpha	3.8E+00			9.6E-01	1		pCi/L	GP	0
		Nonvolatile beta	4.7E+00			2.3E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.5E+00			4.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 62D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101849.0 E47882.9	33.329137 °N 81.738594 °W	231.9-212.4 ft msl	349.5 ft msl	4" PVC	S	M
SAMPLE DATE		01/27/95	09/22/95	02/13/96	08/08/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		229.9	230.5	229.9	229.8	ft msl
pH		11.9	11.1	11.4	11.2	pH
Sp. conductance		485	1041	800	780	µS/cm
Water temperature		13.3	23.2	15.0	27.0	°C
Alkalinity as CaCO ₃		114	189	155	96	mg/L
Turbidity		2	2	4	2	NTU
Volume purged		0.78	0.59	1.7	0.61	well volume
Sampling code		X	X	X	X	
Synchronous water level		230.3 (03/23/95)	230.5 (08/07/95)	229.9 (03/13/96)	229.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	35	81	50	57	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<2.0	340	1		µg/L	GE	2
		Nickel, total recoverable	<6.7	<10	0.89	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	3.5	<5.0	2.2	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<17	<10	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<17	<10	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<17	7.1	5.6	5.4	5	JE	µg/L	GE	1
		trans-1,2-Dichloroethylene	<17	<10	<10	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<50	<10	<10	5		µg/L	GE	0
		Tetrachloroethylene	180	140	110	84	5		µg/L	GE	2
		1,1,1-Trichloroethane	16	14	8.0	8.5	5	JE	µg/L	GE	0
		Trichloroethylene	60	46	33	30	5		µg/L	GE	2
Monitoring Constituents											
H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	1,900		1,600	1,300	1		µg/L	GE	2
		Chloride	2,100			2,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.7		2.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable		<0.68		<2.6	1	V	µg/L	GE	0
		Fluoride				340	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		0.79	<2.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.040		0.28	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	7,200		8,400	9,800	10	V	µg/L	GE	1
		Sodium, total recoverable	46,000			38,000	1		µg/L	GE	0
		Sulfate	6,700			5,400	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	4.0	2.9		13	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.8E+00		1.0E-01	1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	8.9E+00		8.1E+00	3.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			3.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 63B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101184.4 E47861.0	33.327633 °N 81.737359 °W	140.9-136.2 ft msl	346.9 ft msl	4" PVC	S	LL
SAMPLE DATE		02/02/95	09/12/95	01/25/96	08/07/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		212.0	211.1	208.8	209.4	ft msl
pH		5.1	6.1	5.0	4.9	pH
Sp. conductance		33	28	26	34	µS/cm
Water temperature		19.0	18.8	13.0	25.0	°C
Alkalinity as CaCO ₃		1	46	2	1	mg/L
Turbidity		0	1	1	1	NTU
Volume purged		2.8	3.6	3.0	2.7	well volume
Sampling code						
Synchronous water level		210.9 (03/23/95)	213.6 (08/07/95)	209.1 (03/13/96)	210.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.2	90	8.5	9.0	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	5.2	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.9	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<0.050	<4.0	<1.3	25		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<0.050	<4.0	<1.3	25		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	<0.050	<4.0	<1.3	25		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	0.080	<4.0	<1.3	25		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<8.3	<0.050	<4.0	<1.3	25		µg/L	GE	0
■		Tetrachloroethylene	15	4.6	10	21	25		µg/L	GE	2
		1,1,1-Trichloroethane	<8.3	<0.050	<4.0	<1.3	25		µg/L	GE	0
■		Trichloroethylene	300	540	440	470	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	2,100			2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	3.5		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		1.0		0.57	1	JE	µg/L	GE	0
		Copper, total recoverable		1.4		6.1	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.4	51		3.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.093		0.28	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	1,900			2,800	2	V	µg/L	GE	0
		Sodium, total recoverable	2,300			2,200	1	JV	µg/L	GE	0
		Sulfate	<1,700			140	1	JE	µg/L	GE	0
		Total phosphates (as P)	53			110	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	16	23		18	1		µg/L	GE	0
Radionuclides											
		Gross alpha	7.0E-01			4.6E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.1E-01			8.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	8.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 63C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101174.6 E47849.2	33.327592 °N 81.737371 °W	195.8-191.1 ft msl	347 ft msl	4" PVC	S	UL

SAMPLE DATE	02/02/95	09/12/95	01/25/96	08/07/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.1	221.9	220.9	221.0	ft msl
pH	5.2	5.1	4.8	5.0	pH
Sp. conductance	41	39	35	35	µS/cm
Water temperature	18.9	18.7	14.0	24.0	°C
Alkalinity as CaCO ₃	2	6	5	1	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	4.2	4.0		8.4	well volume
Sampling code					
Synchronous water level	221.7 (03/23/95)	222.9 (08/07/95)	221.1 (03/13/96)	220.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	5.5	7.1	6.0	8.8	1		µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	2.4	1.5	7.2	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	1.0	<10	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	1.6	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	0.16	<2.0	0.13	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	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			
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0	
		Tetrachloroethylene	15	31	24	9.6	1		µg/L	GE	2	
		1,1,1-Trichloroethane	<1.7	0.060	<2.0	<0.050	1		µg/L	GE	0	
		Trichloroethylene	5.8	8.8	7.9	3.6	1		µg/L	GE	1	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0	
		Chloride	2,600			3,000	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0	
		Cobalt, total recoverable		0.40		0.74	1	JE	µg/L	GE	0	
		Copper, total recoverable		11		13	1		µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	6.5	<3.0		6.3	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.20		0.027	1	JE	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	2,300			2,500	2	V	µg/L	GE	0	
		Sodium, total recoverable	4,200			2,900	1	JV	µg/L	GE	0	
		Sulfate	<1,700			170	1	JE	µg/L	GE	0	
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0	
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0	
		Zinc, total recoverable	20	24		21	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	1.0E+00			1.7E+00	1		pCi/L	GP	0	
		Nonvolatile beta	5.4E-01			1.9E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	1.3E+00			4.0E-01	1	J	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 63D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101165.2 E47837.4	33.327552 °N 81.737384 °W	232.8-212.8 ft msl	346.8 ft msl	4" PVC	S	M
SAMPLE DATE		02/03/95	09/12/95	01/26/96	08/08/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		229.3	230.9	230.3	230.0	ft msl
pH		9.8	8.4	6.9	8.2	pH
Sp. conductance		78	97	200	160	µS/cm
Water temperature		19.0	18.7	10.0	27.8	°C
Alkalinity as CaCO ₃		21	25	42	20	mg/L
Turbidity		13	9	3	9	NTU
Volume purged		0.93	0.84	0.70	0.89	well volume
Sampling code		X	X	X	X	
Synchronous water level		230.4 (03/23/95)	230.8 (08/07/95)	230.3 (03/13/96)	229.9 (09/18/96)	ft msl

ANALYTICAL DATA

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.1	6.8	6.4	10	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	45	1		µg/L	GE	1
		Nickel, total recoverable	<6.7	<10	<10	1.4	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	3.3	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<0.050	<10	<1.0	20		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<0.050	<10	<1.0	20		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	0.84	<10	<1.0	20		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	<0.050	<10	<1.0	20		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<8.3	<0.050	<10	<1.0	20		µg/L	GE	0
		Tetrachloroethylene	180	330	270	220	20		µg/L	GE	2
		1,1,1-Trichloroethane	<8.3	0.23	<10	<1.0	20		µg/L	GE	0
		Trichloroethylene	28	63	49	35	20		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	910		980	1,100	1		µg/L	GE	2
		Chloride	2,300			3,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.93		1.4	1	JE	µg/L	GE	0
		Cobalt, total recoverable		0.33		0.25	1	JE	µg/L	GE	0
		Copper, total recoverable		<4.0		49	1	V	µg/L	GE	0
		Fluoride				57	1	JE	µg/L	GE	0
		Manganese, total recoverable	<3.3		0.91	2.3	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.048		0.042	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,800		3,000	3,400	2	V	µg/L	GE	0
		Sodium, total recoverable	5,600			4,000	1		µg/L	GE	0
		Sulfate	1,100			770	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.0	13		16	1		µg/L	GE	0
Radionuclides											
		Gross alpha	9.2E-01		4.3E-01	1.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.0E+00		2.0E+00	2.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			3.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 64C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101842.9 E46589.2	33.327011 °N 81.741989 °W	181.2-176.5 ft msl	348.4 ft msl	4" PVC	S	UL

SAMPLE DATE	01/30/95	09/11/95	01/25/96	08/05/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.9	224.0	223.3	223.1	ft msl
pH	4.7	4.4	4.6	4.6	pH
Sp. conductance	142	158	140	160	µS/cm
Water temperature	18.1	19.0	15.0	24.0	°C
Alkalinity as CaCO ₃	1	0	0	0	mg/L
Turbidity	0	2	0	1	NTU
Volume purged	3.7	4.9	4.0	5.2	well volume
Sampling code					
Synchronous water level	223.7 (03/23/95)	224.3 (08/07/95)	223.5 (03/13/96)	222.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	26	23	27	26	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.82	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<8.4	<20	<20	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<8.4	<20	<20	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<8.4	<20	<20	13	10	JE	µg/L	GE	2
		trans-1,2-Dichloroethylene	<8.4	<20	<20	<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.4	<100	<20	<20	10		µg/L	GE	0
		Tetrachloroethylene	470	410	350	340	10		µg/L	GE	2
		1,1,1-Trichloroethane	<8.4	<20	<20	<20	10		µg/L	GE	0
		Trichloroethylene	73	67	59	51	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	180			170	1		µg/L	GE	2
		Chloride	3,600			4,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				1.8	1	JE	µg/L	GE	0
		Copper, total recoverable		<4.0		1.1	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.6			10	1		µg/L	GE	0
		Mercury, total recoverable	0.34	0.42		0.53	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	14,000			16,000	20	V	µg/L	GE	2
		Sodium, total recoverable	12,000			13,000	1		µg/L	GE	0
		Sulfate	<1,700			130	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			60	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.1	6.1		6.0	1		µg/L	GE	0
		Radionuclides									
		Gross alpha	8.6E+00			9.3E+00	1	V	pCi/L	GP	1
		Nonvolatile beta	6.3E+00			8.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.4E+00			2.9E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

WELL MSB 64D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101854.8 E46598.5	33.327053 °N 81.741987 °W	230.1-210.1 ft msl	348.6 ft msl	4" PVC	S	M
SAMPLE DATE		02/02/95	09/11/95	01/25/96	08/05/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		226.3	227.9	227.7	227.3	ft msl
pH		5.8	5.6	5.6	5.8	pH
Sp. conductance		121	101	99	82	µS/cm
Water temperature		19.0	19.4	15.0	24.0	°C
Alkalinity as CaCO ₃		23	20	50	11	mg/L
Turbidity		1	2	1	1	NTU
Volume purged		6.4	5.9	5.3	6.9	well volume
Sampling code						
Synchronous water level		227.9 (03/23/95)	227.9 (08/07/95)	227.8 (03/13/96)	227.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	17	15	15	12	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	0.93	0.99	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.5	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				<0.13	1		µg/L	GE	0
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	2.7	1.6	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33		<27	<20	1		µg/L	GE	0
		Chloride	3,500			4,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.72	1	JE	µg/L	GE	0
		Copper, total recoverable		7.1		8.6	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	5.7		6.9	6.4	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.13	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	5,700		2,700	2,500	4	V	µg/L	GE	0
		Sodium, total recoverable	18,000			13,000	1		µg/L	GE	0
		Sulfate	3,400			2,100	1		µg/L	GE	0
		Total phosphates (as P)	<83			150	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	20	<18		12	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00		6.1E-01	7.6E-01	1		pCi/L	GP	0
		Nonvolatile beta	2.3E+00		3.5E+00	8.3E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standards for third quarter 1996.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF

WELL MSB 29B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107319.3 E51217.5	33.346676 °N 81.740456 °W	151.7-145.1 ft msl	365 ft msl	4" PVC	S	LL
SAMPLE DATE		01/30/95	08/23/95	01/25/96	07/11/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		225.3	226.4	225.7	224.7	ft msl
pH		4.6	4.7	5.2	4.4	pH
Sp. conductance		32	29	26	12	µS/cm
Water temperature		18.3	20.5	24.0	22.0	°C
Alkalinity as CaCO ₃		0	0	4	1	mg/L
Turbidity		0	1	1	1	NTU
Volume purged		2.8	2.6	3.7	3.3	well volume
Sampling code						
Synchronous water level		225.4 (03/22/95)	226.0 (08/07/95)	225.6 (03/11/96)	225.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	7.0	6.6	7.3	7.1	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.8	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.5	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	44			41	1		µg/L	GE	1
		Chloride	2,100	2,400	2,400	2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.3	<0.78	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.25	1	JE	µg/L	GE	0
		Copper, total recoverable				1.2	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		1.5	1.4	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.021	<0.14	0.023	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,300	1,500	1,500	1,800	1	V	µg/L	GE	0
		Sodium, total recoverable			2,300	2,300	1		µg/L	GE	0
		Sulfate			190	130	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	4.7		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.0E+00		1.4E+00	1.9E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.1E+00		9.3E-01	1.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.9E+00		5.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107315.0 E51206.6	33.346648 °N 81.740476 °W	179.7-174.1 ft msl	365 ft msl	4" PVC	S	UL

SAMPLE DATE	01/30/95	08/23/95	01/25/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.5	232.1	231.8	231.4	ft msl
pH	4.9	4.9	5.2	4.4	pH
Sp. conductance	31	29	26	14	µS/cm
Water temperature	18.2	20.7	22.0	23.0	°C
Alkalinity as CaCO ₃	0	1	3	1	mg/L
Turbidity	0	1	0	1	NTU
Volume purged	4.6	2.9	3.3	3.6	well volume
Sampling code					
Synchronous water level	231.2 (03/22/95)	231.9 (08/07/95)	231.9 (03/11/96)	231.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.9	5.6	6.1	5.9	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	3.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.9	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
Trichloroethylene	<1.7	0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	28			41	1		µg/L	GE	1
		Chloride	1,800	2,300	2,400	2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	1.8	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.73	1	JE	µg/L	GE	0
		Copper, total recoverable				3.7	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		3.6	2.3	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.032	<0.12	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,400	1,600	1,500	1,900	1	V	µg/L	GE	0
		Sodium, total recoverable			3,500	2,300	1		µg/L	GE	0
		Sulfate			150	130	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	6.6	7.3		<8.1	1	V	µg/L	GE	0

Radionuclides

Gross alpha	2.4E+00		1.8E+01	2.7E+00	1		pCi/L	GP	0
Nonvolatile beta	1.9E+00		2.1E+00	2.4E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	1.9E+00		1.0E+00	1.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107323.3 E51226.9	33.346700 °N 81.740439 °W	227.6-207.0 ft msl	364.9 ft msl	4" PVC	S	M

SAMPLE DATE	01/30/95	08/23/95	01/25/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.9	233.6	232.5	233.3	ft msl
pH	4.6	4.6	5.2	4.8	pH
Sp. conductance	35	29	26	28	µS/cm
Water temperature	18.2	19.7	22.0	28.0	°C
Alkalinity as CaCO ₃	0	0	3	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged	4.5	4.8	7.6	3.3	well volume
Sampling code					
Synchronous water level	233.1 (03/22/95)	233.4 (08/07/95)	233.7 (03/11/96)	233.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	7.1	8.9	8.6	7.3	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.1	<1.3	2.0	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<0.82	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.2	<2.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	40			48	1		µg/L	GE	1
		Chloride	2,300	2,900	2,900	3,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<0.76	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.22	1	JE	µg/L	GE	0
		Copper, total recoverable				17	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	3.6		5.0	4.8	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.069	0.022	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600	1,100	1,100	1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				2,400	1		µg/L	GE	0
		Sulfate			640	760	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	140	<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			6.9	1	JE	µg/L	GE	0
		Zinc, total recoverable	<3.3	4.8		<3.1	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	6.7E+00		9.4E+00	1.0E+01	1		pCi/L	GP	1
		Nonvolatile beta	6.7E-01		4.3E+00	3.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.9E+00		7.1E+00	6.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107275.3 E49293.7	33.343436 °N 81.745437 °W	140.5-134.9 ft msl	357.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/30/95	08/28/95	02/08/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.9	230.7	230.4	229.8	ft msl
pH	5.1	5.2	5.2	5.2	pH
Sp. conductance	23	24	28	24	µS/cm
Water temperature	18.5	19.4	20.0	25.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	1	0	1	3	NTU
Volume purged	2.6	3.2	2.1	2.8	well volume
Sampling code					
Synchronous water level	230.0 (03/22/95)	230.6 (08/07/95)	230.1 (03/11/96)	229.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.8	7.0	29	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.6	<2.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.4	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<69	1	V	µg/L	GE	0
		Chloride	1,000	1,200	1,200	1,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.37	1	JE	µg/L	GE	0
		Copper, total recoverable				18	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	2.4		1.8	2.3	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100	1,300	1,300	1,600	1	V	µg/L	GE	0
		Sodium, total recoverable			2,100	1,800	1	V	µg/L	GE	0
		Sulfate			170	100	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	140	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.1	<5.7		14	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	6.1E-01		4.2E-01	1.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	7.4E-01		2.0E+00	1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01		0.0E+00	4.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107274.6 E49311.8	33.343464 °N 81.745388 °W	175.5-169.9 ft msl	357.8 ft msl	4" PVC	S	UL

SAMPLE DATE	01/30/95	08/28/95	02/09/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	229.9	230.9	230.8	230.3	ft msl
pH	4.9	5.0	4.8	4.8	pH
Sp. conductance	26	26	28	24	µS/cm
Water temperature	18.8	19.4	20.0	26.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	0	0	1	3	NTU
Volume purged	3.2	5.7	3.3	2.6	well volume
Sampling code					
Synchronous water level	230.2 (03/22/95)	230.8 (08/07/95)	230.2 (03/11/96)	229.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	<5.0	2.7	4.1	3.3	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	0.83	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.7	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			13	1	JE	µg/L	GE	0
		Chloride	1,300	1,600	2,000	1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.9	<4.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.69	1	V	µg/L	GE	0
		Copper, total recoverable				6.9	1	V	µg/L	GE	0
		Fluoride	<50	<100	<16	<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		2.5	1.6	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.031	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200	1,500	1,500	1,700	1		µg/L	GE	0
		Sodium, total recoverable			3,000	2,300	1		µg/L	GE	0
		Sulfate			390	220	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	30	1	JE	µg/L	GE	0
		Uranium, total recoverable	<33			<21	1	V	µg/L	GE	0
		Zinc, total recoverable	4.9	<5.4		8.3	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E+00		1.9E+00	2.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00		1.9E+00	1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.6E+00		1.2E+00	8.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107274.2 E49322.0	33.343480 °N 81.745360 °W	220.8-200.2 ft msl	358 ft msl	4" PVC	S	M

SAMPLE DATE	01/30/95	08/28/95	02/08/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.7	232.7	233.0	232.2	ft msl
pH	4.7	5.0		4.8	pH
Sp. conductance	23	23		20	µS/cm
Water temperature	18.0	19.5		28.0	°C
Alkalinity as CaCO ₃	0	0		0	mg/L
Turbidity	1	0		10	NTU
Volume purged	4.2	9.4		3.4	well volume
Sampling code			P		
Synchronous water level	232.2 (03/22/95)	232.6 (08/07/95)	232.5 (03/11/96)	232.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.6	3.7		3.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20		6.1	1	JE	µg/L	GE	0
		Lead, total recoverable	4.1	3.7		3.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.4		1.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.9		<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050		<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<17	<0.050		<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<17	<0.050		<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<0.050		<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050		<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050		<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<17	<0.050		<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050		<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	54			63	1		µg/L	GE	2
		Chloride	1,400	1,700		1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.92	1	V	µg/L	GE	0
		Copper, total recoverable				16	1	V	µg/L	GE	0
		Fluoride	<50	<100		<100	1		µg/L	GE	0
		Manganese, total recoverable	30			6.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.020		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	740	940		1,700	1		µg/L	GE	0
		Sodium, total recoverable				1,400	1		µg/L	GE	0
		Sulfate				400	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100		<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<14	1	V	µg/L	GE	0
		Zinc, total recoverable	2.4	<4.3		6.2	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00			1.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.4E-01			1.0E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			1.0E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF

WELL ABP 2A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone					
N97764.3 E44118.8	33.313961 °N 81.740559 °W	211.1-181.1 ft msl	371.9 ft msl	4" PVC	S	M					
SAMPLE DATE		01/19/95	08/18/95	03/12/96	07/24/96						
FIELD DATA											
Parameter		1Q95	3Q95	1Q96	3Q96	Unit					
Water elevation		223.8	223.9	223.7	330.8	ft msl					
pH		4.1	4.4	4.2	6.2	pH					
Sp. conductance		89	80	80	140	µS/cm					
Water temperature		18.7	19.1	20.0	25.0	°C					
Alkalinity as CaCO ₃		0	0	0	0	mg/L					
Turbidity		2	1	5	2	NTU					
Volume purged		5.8	7.0	3.5	3.3	well volume					
Sampling code											
Synchronous water level		223.7 (03/22/95)	223.8 (08/07/95)	223.6 (03/12/96)	263.4 (09/18/96)	ft msl					
ANALYTICAL DATA											
Groundwater Protection Standard											
261 Appendix VIII/264 Appendix IX Hazardous Constituents											
H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	36	30	33	37	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<2.0	<5.0	1.4	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	1.7	1.6	2.4	3.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.1	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		PCB 1016			<0.12				µg/L		
		PCB 1221			<0.12				µg/L		
		PCB 1232			<0.12				µg/L		
		PCB 1242			<0.12				µg/L		
		PCB 1248			<0.12				µg/L		
		PCB 1254			<0.12				µg/L		
		PCB 1260			<0.12				µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<10	<0.050	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	1.1	0.63	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		Trichloroethylene	2.2	2.4	3.0	3.1	1		µg/L	GE	1
Monitoring Constituents											
H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
■		Aluminum, total recoverable	140		120	180	1	V	µg/L	GE	2
		Chloride				2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.0	0.98	<4.3	1	V	µg/L	GE	0
		Cobalt, total recoverable			<1.3	<2.6	1	V	µg/L	GE	0
		Copper, total recoverable			<1.5	<1.1	1	V	µg/L	GE	0
		Fluoride				21	1	JE	µg/L	GE	0
■		Manganese, total recoverable	59		50	58	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	<0.20	<0.075	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen				7,600	10	V	µg/L	GE	1
		Sodium, total recoverable			2,000	2,100	1	V	µg/L	GE	0
		Sulfate				<1,000	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.8	3.6	<6.9	11	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.9E+01		1.5E+01	1.5E+01	1		pCi/L	GP	1
		Nonvolatile beta	1.3E+01		7.9E+00	7.3E+00	1		pCi/L	GP	0
■		Radium, total alpha-emitting	1.1E+01		1.1E+01	7.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ABP 3C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97778.2 E44506.3	33.314624 °N 81.739566 °W	165.3-160.3 ft msl	354.5 ft msl	4" PVC	S	LL

SAMPLE DATE	01/18/95	08/18/95	01/03/96	07/26/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	198.0	198.4	198.5	197.1	ft msl
pH	6.5	6.6	9.2	6.6	pH
Sp. conductance	61	96	102	100	µS/cm
Water temperature	19.2	19.7	16.0	26.0	°C
Alkalinity as CaCO ₃	15	24		18	mg/L
Turbidity	1	2	5	1	NTU
Volume purged	3.1	3.7	3.1	4.2	well volume
Sampling code					
Synchronous water level	198.8 (03/22/95)	198.2 (08/07/95)	197.7 (03/12/96)	197.2 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	17	24	48	24	1		µg/L	WA	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	4.3	12	6.4	1	JE	µg/L	WA	0
		Nickel, total recoverable	<6.7	3.0	2.2	2.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.6	<5.0	<3.2	1	V	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	0.26	1.7	1	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<0.050	<2.0	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<5.0	<0.050	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	22	27	26	38	1		µg/L	WA	2
		1,1,1-Trichloroethane	<1.7	<2.0	0.060	<2.0	1		µg/L	GE	0
■		Trichloroethylene	42	44	30	49	1		µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	44		350	150	1		µg/L	WA	2
		Chloride				3,300	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	2.8	2.3	0.98	1	JE	µg/L	WA	0
		Cobalt, total recoverable			1.4	1.3	1	JE	µg/L	WA	0
		Copper, total recoverable			<3.5	7.0	1	JE	µg/L	WA	0
		Fluoride				49	1	JE	µg/L	GE	0
		Manganese, total recoverable	34	23	24	20	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.053	<0.20	1.4	1	V	µg/L	GE	1
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen				4,200	4	V	µg/L	GE	0
		Sodium, total recoverable			4,000	3,600	1		µg/L	GE	
		Sulfate				350	1		µg/L	WA	0
		Total phosphates (as P)				36	1	JE	µg/L	WA	
		Uranium, total recoverable				16	1	JE	µg/L	GE	1
		Zinc, total recoverable	8.6	8.5	30	13	1		µg/L	GE	0
Radionuclides											
		Gross alpha	8.7E-01		4.0E-01	1.7E+00	1		pCi/L	TM	0
		Nonvolatile beta	1.7E+00		8.2E-01	4.1E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	6.0E-01		1.9E+00	1.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ABP 8C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97855.6 E43968.7	33.313917 °N 81.741131 °W	190.6-185.5 ft msl	372.1 ft msl	4" PVC	S	LL

SAMPLE DATE	01/31/95	03/14/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	201.8		197.9	197.3	ft msl
pH	12.8		11.8	12.0	pH
Sp. conductance	3000		3000	3600	µS/cm
Water temperature	16.0		22.0	21.0	°C
Alkalinity as CaCO ₃	937		0	838	mg/L
Turbidity	14		7	14	NTU
Volume purged	0.28		0.25	0.39	well volume
Sampling code	X		X	X	
Synchronous water level	198.6 (03/22/95)		197.8 (03/12/96)	197.2 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

251 Appendix VIII/254 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	400		540				µg/L		
		Cyanide	<8.3		<10				µg/L		
		Lead, total recoverable	12		27				µg/L		
		Nickel, total recoverable	<67		2.0				µg/L		
		Selenium, total recoverable	<3.3		<5.0				µg/L		
Organics											
		Chlorobenzene	<1.7		<2.0				µg/L		
		1,1-Dichloroethane	<1.7		<2.0				µg/L		
		1,1-Dichloroethylene	<1.7		<2.0				µg/L		
		trans-1,2-Dichloroethylene	<1.7		<2.0				µg/L		
		PCB 1016			<0.12				µg/L		
		PCB 1221			<0.12				µg/L		
		PCB 1232			<0.12				µg/L		
		PCB 1242			<0.12				µg/L		
		PCB 1248			<0.12				µg/L		
		PCB 1254			<0.12				µg/L		
		PCB 1260			<0.12				µg/L		
		1,1,2,2-Tetrachloroethane	<1.7		<2.0				µg/L		
		Tetrachloroethylene	<1.7		<2.0				µg/L		
		1,1,1-Trichloroethane	<1.7		<2.0				µg/L		
		Trichloroethylene	<1.7		2.6				µg/L		

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	3,500		3,400				µg/L		
		Chloride									
		Chromium, total recoverable	<67		21				µg/L		
		Cobalt, total recoverable			3.1				µg/L		
		Copper, total recoverable			28				µg/L		
		Fluoride									
		Manganese, total recoverable	<33		0.49				µg/L		
		Mercury, total recoverable	<0.33		<0.20				µg/L		
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable			32,000				µg/L		
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable	<33		18				µg/L		
Radionuclides											
		Gross alpha	4.5E+00		1.6E+00				pCi/L		
		Nonvolatile beta	1.6E+01		4.0E+01				pCi/L		
		Radium, total alpha-emitting	2.7E+00		2.6E+00				pCi/L		

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AC 1A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105865.0 E42238.8	33.328795 °N 81.761268 °W	145.7-140.7 ft msl	262.1 ft msl	4" Steel	S	UL

SAMPLE DATE	01/13/95	08/18/95	02/13/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	212.8	214.7	214.0	216.6	ft msl
pH	5.0	5.2	3.4	6.2	pH
Sp. conductance	23	22	200	44	µS/cm
Water temperature	18.4	18.4	15.0	25.0	°C
Alkalinity as CaCO ₃	1	1	2	1	mg/L
Turbidity	2	2	3	2	NTU
Volume purged	7.1	4.7	2.3	3.9	well volume
Sampling code					
Synchronous water level	214.1 (03/22/95)	214.6 (08/07/95)	214.1 (03/12/96)	213.2 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.8	4.6	5.1	5.1	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<2.5	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	4.2	2.3	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.5	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	23			<54	1	V	µg/L	GE	0
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<2.7	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				<1.0	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				6.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33			<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				1,000	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen				1,700	1	V	µg/L	GE	0
		Sodium, total recoverable				410	1	JE	µg/L	GE	0
		Sulfate				<50	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				590	1		µg/L	GE	0
		Zinc, total recoverable	440	480					µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00			1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	7.6E-01			1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			1.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AC 1B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105862.8 E42250.5	33.328809 °N 81.761233 °W	202.1-197.1 ft msl	262 ft msl	4" Steel	S	UL

SAMPLE DATE	01/13/95	08/18/95	02/15/96	07/26/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	213.4	214.6	214.2	213.6	ft msl
pH	5.1	5.4	5.4	5.6	pH
Sp. conductance	27	26	24	44	µS/cm
Water temperature	18.0	18.3	20.0	23.0	°C
Alkalinity as CaCO ₃	3	2	10	1	mg/L
Turbidity	1	1	3	1	NTU
Volume purged	22	13	3.1	14	well volume
Sampling code					
Synchronous water level	214.1 (03/22/95)	214.6 (08/07/95)	214.2 (03/12/96)	213.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.5	8.8	11	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	5.6	2.7	10	2.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.7	1.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	24			19	1	JE	µg/L	GE	0
		Chloride				2,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.62		<2.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.5	1	V	µg/L	GE	0
		Copper, total recoverable				11	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable			20	14	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33			0.37	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				2,200	1		µg/L	GE	0
		Sulfate				280	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	910	1,200		1,000	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.8E+00			2.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.1E-01			9.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.5E+00			1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AC 3A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100989.1 E42119.8	33.317824 °N 81.752094 °W	153.6-148.6 ft msl	302.3 ft msl	4" PVC	S	UL

SAMPLE DATE	01/13/95	08/21/95	02/15/96	07/26/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	210.6	211.2	211.4	210.6	ft msl
pH	6.1	6.2	5.8	5.6	pH
Sp. conductance	51	47	42	38	µS/cm
Water temperature	19.5	19.3	22.0	25.0	°C
Alkalinity as CaCO ₃	12	15	10	10	mg/L
Turbidity	2	3	3	6	NTU
Volume purged	2.7	3.2	3.4	2.4	well volume
Sampling code					
Synchronous water level	211.1 (03/22/95)	211.2 (08/07/95)	211.1 (03/12/96)	210.2 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	11	15	11	12	1	V	µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.6	2.5	6.1	1	JE	µg/L	WA	0
		Nickel, total recoverable	<6.7	0.94	<10	1.3	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	3.3	<5.0	<1.5	1	V	µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	27			65	1	JE	µg/L	WA	2
		Chloride				2,700	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0		<1.3	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.67	1	V	µg/L	GE	0
		Copper, total recoverable				6.4	1	JE	µg/L	WA	0
		Fluoride				110	1		µg/L	GE	0
		Manganese, total recoverable				1.9	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33			0.43	1	V	µg/L	GE	0
		Nitrate as nitrogen				710	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen				3,000	1		µg/L	WA	0
		Sodium, total recoverable				1,300	1		µg/L	WA	0
		Sulfate				11	1	JE	µg/L	WA	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				210	1		µg/L	GE	0
		Zinc, total recoverable	260	360							

Radionuclides

Gross alpha	4.8E-01	8.5E-01	1		pCi/L	GP	0
Nonvolatile beta	2.0E+00	2.5E+00	1	J1	pCi/L	TM	0
Radium, total alpha-emitting	0.0E+00	3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 4A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104131.6 E51469.8	33.340041 °N 81.733589 °W	126.3-121.3 ft msl	380.5 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/25/95	09/19/95	01/04/96	08/14/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.9	220.6	220.2	219.0	ft msl
pH	7.0	6.3	6.2	6.4	pH
Sp. conductance	40	45	40	68	µS/cm
Water temperature	18.7	19.4	19.0	22.0	°C
Alkalinity as CaCO ₃	3	15	1	28	mg/L
Turbidity	1	2	1	4	NTU
Volume purged	2.6	2.8	2.6	0.53	well volume
Sampling code				X	
Synchronous water level	220.4 (03/23/95)	221.1 (08/08/95)	220.2 (03/11/96)	220.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	5.5	5.1	5.4	6.6	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.9	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<4.0	4.1	1	JE	µg/L	WA	0
		Selenium, total recoverable	<3.3	<5.0	<6.3	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<40	0.10	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
■		Tetrachloroethylene	29	26	23	49	1		µg/L	WA	2
		1,1,1-Trichloroethane	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
■		Trichloroethylene	360	400	360	430	2.5		µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
■		Aluminum, total recoverable	23			150	1		µg/L	WA	2
		Chloride	1,900	1,700	1,600	2,100	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0	<1.7	2.8	1	JE	µg/L	WA	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				4.4	1		µg/L	GE	0
		Fluoride	<50	<100	<100	25	1	JE	µg/L	GE	0
		Manganese, total recoverable	7.4		7.4	7.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	0.054	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	880	790	850	1,600	1	V	µg/L	GE	0
■		Sodium, total recoverable			2,600	11,000	1		µg/L	WA	0
■		Sulfate			790	3,300	1		µg/L	WA	0
		Total phosphates (as P)	<83	30	150	29	1	JE	µg/L	WA	0
		Uranium, total recoverable				64	1	JE	µg/L	WA	2
		Zinc, total recoverable	<3.3	<2.8		17	1	JE	µg/L	WA	0
Radionuclides											
		Gross alpha	3.4E-01		4.1E-02	1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	6.4E-01		7.7E-01	4.5E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	1.0E-01		4.0E-01	2.6E-01	1	J1	pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 4B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104145.6 E51482.7	33.340093 °N 81.733582 °W	157.3-152.3 ft msl	380.4 ft msl	4" PVC	S	LL

SAMPLE DATE	02/01/95	09/20/95	01/04/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.8	226.0	225.5	225.1	ft msl
pH	4.9	4.8	5.2	5.8	pH
Sp. conductance	27	32	30	44	µS/cm
Water temperature	18.6	19.4	19.0	26.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	2	4	1	0	NTU
Volume purged	2.7	3.2	2.7	2.9	well volume
Sampling code					
Synchronous water level	225.8 (03/23/95)	226.8 (08/08/95)	225.7 (03/11/96)	225.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.5	6.1	5.9	5.9	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.7	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.9	<5.0	1.8	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.070	<10	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.3	2.6	25	3.0	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	30			<37	1	V	µg/L	GE	0
		Chloride	4,400	4,800	4,500	4,400	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.3	0.75	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.18	1	JE	µg/L	GE	0
		Copper, total recoverable				<0.62	1	V	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	5.5		5.0	4.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	720	610	590	950	1	V	µg/L	GE	0
		Sodium, total recoverable			3,200	3,000	1	V	µg/L	GE	0
		Sulfate			230	210	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	40	320	1	J	µg/L	GE	0
		Uranium, total recoverable				20	1		µg/L	GE	2
		Zinc, total recoverable	<3.3	<2.7		3.0	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	7.1E-01		7.5E-01	1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.4E+00		1.1E+00	1.4E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01		9.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104154.7 E51489.0	33.340124 °N 81.733584 °W	233.4-213.4 ft msl	380.3 ft msl	4" PVC	S	M

SAMPLE DATE 02/02/95 09/21/95 01/04/96 08/14/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.1	235.0	234.3	234.1	ft msl
pH	4.8	5.0	6.0	5.6	pH
Sp. conductance	49	38	42	58	µS/cm
Water temperature	17.4	20.0	19.0	23.0	°C
Alkalinity as CaCO ₃	3	1	3	5	mg/L
Turbidity	19	3	2	1	NTU
Volume purged	1.2	8.1	4.3	2.9	well volume
Sampling code	X				
Synchronous water level	234.4 (03/23/95)	234.5 (08/08/95)	234.8 (03/11/96)	233.9 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	10	6.7	4.3	3.5	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	7.8	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.7	<2.2	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	1.9	<1.7	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		1,1-Dichloroethane	1.2	0.50	<2.0	0.56	2		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		Tetrachloroethylene	9.0	2.2	<2.0	1.9	2		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
■		Trichloroethylene	130	42	2.6	38	2		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	130		27	43	1		µg/L	GE	1
		Chloride	3,500	2,600	2,600	1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.5	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		0.80		0.29	1	JE	µg/L	GE	0
		Copper, total recoverable		<4.7		11	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	18	14	9.4	9.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	0.035	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,000	1,300	910	1,400	1	V	µg/L	GE	0
■		Sodium, total recoverable			6,200	7,400	1	V	µg/L	GE	0
■		Sulfate		2,900	4,600	11,000	1		µg/L	GE	0
		Total phosphates (as P)	<83	<30	30	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	23	3.9		<11	1	V	µg/L	GE	0

Radionuclides

■		Gross alpha	1.1E+01		3.3E+00	1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.9E+00		1.2E+00	7.0E+01	1		pCi/L	GP	2
		Radium, total alpha-emitting	8.6E+00		1.1E+00	8.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104083.4 E51467.2	33.339930 °N 81.733502 °W	242.1-222.1 ft msl	379.6 ft msl	4" PVC	S	M

SAMPLE DATE	02/01/95	09/20/95	01/04/96	07/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.6	235.3	234.8	235.0	ft msl
pH	5.3	5.1	5.8	5.4	pH
Sp. conductance	42	50	50	46	µS/cm
Water temperature	19.0	19.6	20.0	27.0	°C
Alkalinity as CaCO ₃	5	8	3	10	mg/L
Turbidity	5	15	14	11	NTU
Volume purged	11	6.5	2.0	2.8	well volume
Sampling code					
Synchronous water level	234.8 (03/23/95)	234.9 (08/08/95)	235.2 (03/11/96)	234.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.5	3.6	3.1	3.1	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<1.9	1	V	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.8	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<4.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.52	<4.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		PCB 1016		<0.12					µg/L		
		PCB 1221		<0.12					µg/L		
		PCB 1232		<0.12					µg/L		
		PCB 1242		<0.12					µg/L		
		PCB 1248		<0.12					µg/L		
		PCB 1254		<0.12					µg/L		
		PCB 1260		<0.12					µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	2.2	1.3	<4.0	1.1	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	37	27	15	16	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	110		89	<110	1	V	µg/L	GE	0
		Chloride	3,300	3,400	3,200	2,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<2.3	0.76	1	JE	µg/L	GE	0
		Cobalt, total recoverable		<4.0		0.37	1	JE	µg/L	GE	0
		Copper, total recoverable		2.5		2.6	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	5.1		4.6	6.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.033	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	730	640	470	650	1		µg/L	GE	0
■		Sodium, total recoverable			9,500	9,200	1	V	µg/L	GE	
■		Sulfate			6,700	6,600	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	250	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<4.4		15	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.1E+00		2.6E+00	1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.6E+00		1.5E+00	1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.9E+00		2.3E+00	1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104034.1 E51466.0	33.339819 °N 81.733410 °W	242.6-222.6 ft msl	377.2 ft msl	4" PVC	S	M

SAMPLE DATE	02/02/95	09/21/95	01/04/96	07/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.7	235.4	234.9	235.2	ft msl
pH	5.5	5.7	5.4	5.0	pH
Sp. conductance	48	57	30	28	µS/cm
Water temperature	17.9	20.5	19.0	26.0	°C
Alkalinity as CaCO ₃	10	8	1	1	mg/L
Turbidity	63	6	3	4	NTU
Volume purged	0.38	0.48	4.1	3.9	well volume
Sampling code	X	X			
Synchronous water level	234.9 (03/23/95)	235.0 (08/08/95)	235.3 (03/11/96)	234.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	6.3	8.2	4.1	4.0	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<1.6	1	V	µg/L	GE	0
		Lead, total recoverable	38	39	1.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.6	<3.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	3.5	<4.4	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.17	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.36	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	0.050	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	11	6.5	<2.0	2.3	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	2,300		20	<30	1	V	µg/L	GE	0
		Chloride	2,800	2,800	2,300	2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	8.4	<1.4	1.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable		<4.0		1.2	1	JE	µg/L	GE	0
		Copper, total recoverable		73		3.4	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	7.8		5.4	5.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.25	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	370	290	600	1,100	1		µg/L	GE	0
		Sodium, total recoverable			3,600	4,100	1	V	µg/L	GE	0
		Sulfate			1,100	1,300	1		µg/L	GE	0
		Total phosphates (as P)	150	<60	<50	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	25	36		4.2	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00		2.1E+00	1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.2E+00		1.2E+00	7.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00		8.0E-01	1.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 7

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103920.0 E51624.9	33.339827 °N 81.732769 °W	242.1-222.1 ft msl	369.9 ft msl	4" PVC	S	M

SAMPLE DATE	02/02/95	08/31/95	01/05/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.0	235.7	235.2	235.3	ft msl
pH	6.0	5.9	5.8	6.6	pH
Sp. conductance	66	87	60	160	µS/cm
Water temperature	17.8	20.4	21.0	26.0	°C
Alkalinity as CaCO ₃	25	27	1	49	mg/L
Turbidity	9	8	2	3	NTU
Volume purged	1.2	1.0	2.6	1.0	well volume
Sampling code	X	X		X	
Synchronous water level	235.2 (03/23/95)	235.3 (08/08/95)	235.6 (03/11/96)	234.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.4	9.5	5.7	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	11	14	<5.0	12	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	7.0	<4.0	8.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.4	<3.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.080	<2.0	0.070	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.21	<2.0	0.17	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	4.2	3.5	<2.0	2.5	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	160		46	160	1	V	µg/L	GE	2
		Chloride	2,100	2,400	2,400	1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.3	<1.5	4.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.68	1	JE	µg/L	GE	0
		Copper, total recoverable				42	1		µg/L	GE	0
		Fluoride	<50	<100	<100	21	1	JE	µg/L	GE	0
		Manganese, total recoverable	3.6		2.1	6.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.025	0.10	<0.13	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	240	550	430	470	1		µg/L	GE	0
■		Sodium, total recoverable			6,500	19,000	1	V	µg/L	GE	0
		Sulfate			1,700	1,900	1		µg/L	GE	0
		Total phosphates (as P)	<83	40	90	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	110	84		60	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.2E+00		2.7E-01	1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.0E+00		6.4E-01	2.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01		0.0E+00	6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 7A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103987.1 E51591.0	33.339920 °N 81.732989 °W	125.6-115.6 ft msl	373.6 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/02/95	09/15/95	01/05/96	08/14/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.3	220.6	219.9	219.0	ft msl
pH	5.9	5.7	5.8	6.6	pH
Sp. conductance	25	29	26	38	µS/cm
Water temperature	18.5	19.0	19.0	22.0	°C
Alkalinity as CaCO ₃	5	5	1	3	mg/L
Turbidity	2	2	3	3	NTU
Volume purged	2.9	3.5	3.0	2.4	well volume
Sampling code					
Synchronous water level	220.4 (03/23/95)	220.9 (08/08/95)	220.2 (03/11/96)	219.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.6	4.8	4.4	4.4	1		µg/L	GE	0
		Cyanide	<8.3	18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.5	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<2.3	<3.4	<1.8	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.8	<2.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
	■	Tetrachloroethylene	17	21	20	32	10		µg/L	GE	2
		1,1,1-Trichloroethane	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
	■	Trichloroethylene	270	230	170	180	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			30	1		µg/L	GE	1
		Chloride	1,700	2,000	1,600	1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.3	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.19	1	JE	µg/L	GE	0
		Copper, total recoverable				5.6	1		µg/L	GE	0
		Fluoride	<50	<20	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	5.9		5.5	5.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	0.067	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	810	900	680	1,100	1	V	µg/L	GE	0
		Sodium, total recoverable				1,800	1	V	µg/L	GE	0
		Sulfate			410	440	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	30	70	<50	1		µg/L	GE	0
		Uranium, total recoverable				<10	1	V	µg/L	GE	0
		Zinc, total recoverable	5.4	3.9		<6.6	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	4.2E-01		9.8E-01	2.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.0E-01		3.2E-01	1.0E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01		2.0E-01	7.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 7B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103972.0 E51590.3	33.339885 °N 81.732961 °W	162.9-152.9 ft msl	373 ft msl	4" PVC	S	LL

SAMPLE DATE 02/02/95 08/30/95 01/05/96 07/09/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	226.0	227.5	225.6	225.2	ft msl
pH	5.0	5.1	5.4	5.6	pH
Sp. conductance	24	29	24	38	µS/cm
Water temperature	18.8	19.0	20.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	4.2	3.8	2.5	3.5	well volume
Sampling code					
Synchronous water level	226.1 (03/23/95)	227.0 (08/08/95)	225.9 (03/11/96)	225.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	1.6	2.1	2.1	1	JEV	µg/L	GE	0
		Cyanide	<8.3	1.0	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<4.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.28	<2.0	0.50	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
■		Trichloroethylene	4.0	4.3	3.1	6.0	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<40	1	V	µg/L	GE	0
		Chloride	3,400	3,200	3,300	2,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<2.8	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.23	1	JE	µg/L	GE	0
		Copper, total recoverable				3.7	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		2.4	2.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	0.020	0.79	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	410	420	460	800	1		µg/L	GE	0
		Sodium, total recoverable			3,800	3,800	1	V	µg/L	GE	0
		Sulfate			960	860	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	190	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	14	5.2		5.4	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.5E-01		2.5E-01	5.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.1E+00		5.1E-02	1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01		4.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103874.7 E51400.5	33.339360 °N 81.733272 °W	240.8-220.8 ft msl	369.6 ft msl	4" PVC	S	M

SAMPLE DATE 02/01/95 08/30/95 01/05/96 07/09/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.7	235.3	234.8	234.9	ft msl
pH	5.5	5.5	5.2	6.0	pH
Sp. conductance	49	59	58	70	µS/cm
Water temperature	18.5	19.1	23.0	25.0	°C
Alkalinity as CaCO ₃	15	10	10	8	mg/L
Turbidity	1	0	0	0	NTU
Volume purged	5.8	7.9	3.5	10	well volume
Sampling code					
Synchronous water level	234.9 (03/23/95)	235.0 (08/08/95)	235.2 (03/11/96)	234.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	<5.0	2.4	1.8	2.1	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.9	2.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	1.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.16	<2.0	0.16	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<28	1	V	µg/L	GE	0
		Chloride	2,900	2,700	2,900	2,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.5	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		<4.0		<4.0	1		µg/L	GE	0
		Copper, total recoverable		<4.0		0.75	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		0.94	1.5	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	0.046	0.34	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	500	520	100	540	1		µg/L	GE	0
		Sodium, total recoverable			12,000	11,000	1	V	µg/L	GE	0
		Sulfate			4,500	3,900	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	80	40	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	7.1		11	1		µg/L	GE	0

Radionuclides

Gross alpha	1.7E+00		7.8E-01	1.2E+00	1		pCi/L	GP	0
Nonvolatile beta	1.0E+00		1.3E+00	3.1E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	3.0E-01		2.0E-01	1.0E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 9D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103585.2 E51263.0	33.338496 °N 81.733071 °W	239.7-219.7 ft msl	367.9 ft msl	4" PVC	S	M

SAMPLE DATE	02/01/95	08/30/95	01/05/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.1	235.8	235.2	235.3	ft msl
pH	5.5	5.5	5.6	5.8	pH
Sp. conductance	37	50	44	62	µS/cm
Water temperature	17.5	18.4	18.0	26.0	°C
Alkalinity as CaCO ₃	5	8	10	5	mg/L
Turbidity	1	1	1	0	NTU
Volume purged	6.5	10	4.4	13	well volume
Sampling code					
Synchronous water level	235.3 (03/23/95)	235.4 (08/08/95)	235.5 (03/11/96)	234.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.4	2.8	2.4	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<1.8	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.0	<3.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<22	1	V	µg/L	GE	0
		Chloride	3,100	2,700	3,000	2,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.9	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		<4.0		<4.0	1		µg/L	GE	0
		Copper, total recoverable		7.3		13	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	2.1		2.5	1.7	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.015	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	150	140	120	410	1		µg/L	GE	0
■		Sodium, total recoverable			8,100	8,600	1	V	µg/L	GE	0
■		Sulfate			3,900	4,800	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	110	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	15	17		19	1		µg/L	GE	0
Radionuclides											
		Gross alpha	6.8E-01		9.4E-01	1.0E+00	1		pCi/L	GP	0
		Nonvolatile beta	7.3E-01		2.0E-02	3.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.2E+00		2.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 10A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103326.4 E51410.0	33.338163 °N 81.732180 °W	111.4-106.4 ft msl	366.5 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/27/95	08/31/95	02/23/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.0	220.6	219.3	218.1	ft msl
pH	11.5	11.5	11.0	10.8	pH
Sp. conductance	177	1026	500	140	µS/cm
Water temperature	14.7	18.4	21.0	30.0	°C
Alkalinity as CaCO ₃	84	213	125	143	mg/L
Turbidity	14	5	17	4	NTU
Volume purged	1.1	0.88	0.014	0.91	well volume
Sampling code	X	X	X	X	
Synchronous water level	219.5 (03/23/95)	219.9 (08/08/95)	219.1 (03/11/96)	218.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	24	70	22	58	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	9.9	<5.0	3.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.0	1.1	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.080	<2.0	0.070	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
■		Aluminum, total recoverable	300			880	1	V	µg/L	GE	2
		Chloride	1,600	1,700	1,900	1,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	6.0	<3.9	3.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride	46	68	230	97	1	JE	µg/L	GE	0
		Manganese, total recoverable	3.3		15	3.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.024	<0.050	0.16	1	JEV	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	150	230	230	400	1		µg/L	GE	0
■		Sodium, total recoverable			10,000	14,000	1	V	µg/L	GE	0
■		Sulfate			6,500	5,200	1		µg/L	GE	0
		Total phosphates (as P)	<83	30	<50	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.2	6.5		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	8.9E-01		3.6E-01	1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.4E+00		7.1E+00	9.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	0.0E+00		1.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 10B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103337.3 E51418.3	33.338201 °N 81.732180 °W	154.3-149.3 ft msl	366.4 ft msl	4" PVC	S	LL

SAMPLE DATE	02/01/95	08/29/95	02/16/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.6	226.0	224.4	223.4	ft msl
pH	6.2	5.7	5.2	5.8	pH
Sp. conductance	45	50	56	54	µS/cm
Water temperature	18.4	19.0	20.0	25.0	°C
Alkalinity as CaCO ₃	14	20	10	11	mg/L
Turbidity	2	1	1	0	NTU
Volume purged	2.8	2.8	6.5	4.5	well volume
Sampling code					
Synchronous water level	224.6 (03/23/95)	225.6 (08/08/95)	224.2 (03/11/96)	223.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	13	15	8.8	7.3	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016			<0.12				µg/L		
		PCB 1221			<0.12				µg/L		
		PCB 1232			<0.12				µg/L		
		PCB 1242			<0.12				µg/L		
		PCB 1248			<0.12				µg/L		
		PCB 1254			<0.12				µg/L		
		PCB 1260			<0.12				µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<13	1	V	µg/L	GE	0
		Chloride	3,400	3,300	3,500	3,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.65	0.82	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable			0.85	0.25	1	JE	µg/L	GE	0
		Copper, total recoverable			0.60	1.2	1	JE	µg/L	GE	0
		Fluoride	<50	<100	<18	<100	1		µg/L	GE	0
		Manganese, total recoverable	14		10	7.2	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	1.1	0.18	1	JEV	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	98	100	120	410	1		µg/L	GE	0
		Sodium, total recoverable			4,000	3,800	1	V	µg/L	GE	0
		Sulfate			790	630	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	9.9	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.9	<5.6	11	13	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.7E-01		1.8E+00	2.7E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.1E-01		3.4E+00	3.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01		1.0E-01	6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 10D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103293.4 E51456.0	33.338166 °N 81.731995 °W	239.4-219.4 ft msl	365.5 ft msl	4" PVC	S	M

SAMPLE DATE	02/02/95	08/30/95	02/14/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	236.4	236.9	237.3	236.6	ft msl
pH	5.4	5.5	4.6	6.0	pH
Sp. conductance	41	49	60	64	µS/cm
Water temperature	17.8	18.5	20.0	24.0	°C
Alkalinity as CaCO ₃	10	15	10	10	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	7.5	7.3	3.2	12	well volume
Sampling code					
Synchronous water level	236.6 (03/23/95)	236.6 (08/08/95)	237.0 (03/11/96)	235.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	5.3	8.3	7.3	7.7	1	V	µg/L	GE	0
		Cyanide	<8.3	2.8	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.5	<1.2	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		PCB 1016		<0.13	<0.12				µg/L		
		PCB 1221		<0.13	<0.12				µg/L		
		PCB 1232		<0.13	<0.12				µg/L		
		PCB 1242		<0.13	<0.12				µg/L		
		PCB 1248		<0.13	<0.12				µg/L		
		PCB 1254		<0.13	<0.12				µg/L		
		PCB 1260		<0.13	<0.12				µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	1.1	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	89			<43	1	V	µg/L	GE	0
		Chloride	3,600	3,300	3,400	3,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable		<4.0	0.31	<4.0	1		µg/L	GE	0
		Copper, total recoverable		<4.0	2.5	<4.0	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	3.9		3.1	2.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.032	<0.13	1	V	µg/L	GE	0
		Nitrate as nitrogen							µg/L	GE	0
		Nitrate-nitrite as nitrogen	110	80	<10	130	1		µg/L	GE	0
■		Sodium, total recoverable			6,000	7,500	1	V	µg/L	GE	0
■		Sulfate			2,500	3,600	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	110	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	5.0	<6.5	<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.3E+00		8.0E-01	1.5E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.6E+00		1.4E+00	2.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00		1.2E+00	5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 11B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103154.2 E51919.5	33.338615 °N 81.730503 °W	184.5-174.5 ft msl	364.6 ft msl	4" PVC	S	UL

SAMPLE DATE	02/03/95	08/30/95	02/14/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.2	225.6	224.6	223.4	ft msl
pH	6.1	5.7	4.4	6.4	pH
Sp. conductance	44	43	64	54	µS/cm
Water temperature	17.2	18.9	17.0	25.0	°C
Alkalinity as CaCO ₃	12	7	10	8	mg/L
Turbidity	1	1	1	0	NTU
Volume purged	3.0	2.5	2.4	3.8	well volume
Sampling code					
Synchronous water level	224.4 (03/23/95)	225.0 (08/08/95)	224.2 (03/11/96)	223.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	33	50	31	31	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.5	<5.0	2.1	1	JE	µg/L	GE	0

Organics

Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	0.080	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<45	1	V	µg/L	GE	0
		Chloride	3,700	3,900	4,200	3,800	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	1.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.74	1	JE	µg/L	GE	0
		Copper, total recoverable				<0.80	1	V	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	12		9.7	11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.018	0.23	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	330	320	260	470	1	V	µg/L	GE	0
		Sodium, total recoverable			2,100	2,100	1	V	µg/L	GE	0
		Sulfate			520	430	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	7.3	14		9.7	1		µg/L	GE	0

Radionuclides

Gross alpha	5.0E-01		5.7E-01	5.1E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	5.9E-01		8.6E-01	7.2E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	1.0E-01		2.0E-01	3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 11D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103132.3 E51932.6	33.338588 °N 81.730426 °W	240.5-220.5 ft msl	364 ft msl	4" PVC	S	M

SAMPLE DATE	02/03/95	08/30/95	02/14/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	236.8	237.7	238.1	237.6	ft msl
pH	6.0	5.9	5.2	6.6	pH
Sp. conductance	51	56	82	80	µS/cm
Water temperature	17.5	18.7	17.0	25.0	°C
Alkalinity as CaCO ₃	2	9	25	11	mg/L
Turbidity	1	1	2	1	NTU
Volume purged	8.8	13	1.7	8.2	well volume
Sampling code					
Synchronous water level	237.2 (03/23/95)	237.4 (08/08/95)	238.0 (03/11/96)	236.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.6	8.2	22	10	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.9	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.82	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.9	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<67	1	V	µg/L	GE	0
		Chloride	2,500	2,900	2,700	2,500	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<0.82	1.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.47	1	JE	µg/L	GE	0
		Copper, total recoverable				<0.94	1	V	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3	1.5	1.1	1.8	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.28	0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	93	60	80	350	1	V	µg/L	GE	0
■		Sodium, total recoverable			6,800	6,400	1	V	µg/L	GE	0
■		Sulfate			4,800	4,700	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.5		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.8E-01		6.8E-01	9.3E-02	1	UI	pCi/L	GP	0
		Nonvolatile beta	3.0E-01		1.4E+00	5.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01		4.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 12D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103602.4 E51901.6	33.339576 °N 81.731422 °W	239.4-219.4 ft msl	369.8 ft msl	4" PVC	S	M

SAMPLE DATE	02/03/95	08/30/95	02/21/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.5	236.4	236.3	236.0	ft msl
pH	5.6	6.0	6.0	6.0	pH
Sp. conductance	24	32	10	37	µS/cm
Water temperature	18.7	19.0	21.0	25.0	°C
Alkalinity as CaCO ₃	3	5	8	1	mg/L
Turbidity	1	3	0	1	NTU
Volume purged	7.7	5.2	7.4	7.0	well volume
Sampling code					
Synchronous water level	235.8 (03/23/95)	236.0 (08/08/95)	236.4 (03/11/96)	235.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.6	7.0	5.4	4.8	1	V	µg/L	GE	0
		Cyanide	<8.3	4.8	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	11	6.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	4.3	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	8.1	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	35			<36	1	V	µg/L	GE	0
		Chloride	1,500	1,500	1,500	1,200	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	4.4	<4.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<2.0	1	V	µg/L	GE	0
		Fluoride	<50	<100	<14	<100	1		µg/L	GE	0
		Manganese, total recoverable	12	11	12	10	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.040	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	870	850	1,100	1,300	1	V	µg/L	GE	0
		Sodium, total recoverable			2,200	2,100	1	V	µg/L	GE	0
		Sulfate			640	430	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	40	30	1	JE	µg/L	GE	0
		Uranium, total recoverable				14	1	JE	µg/L	GE	1
		Zinc, total recoverable	8.9	13		9.4	1		µg/L	GE	0

Radionuclides

Gross alpha	1.2E+00		2.0E+00	7.8E-01	1		pCi/L	GP	0
Nonvolatile beta	1.1E+00		1.6E+00	3.1E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	1.0E-01		1.0E-01	3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 13AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103082.0 E51396.0	33.337600 °N 81.731742 °W	110.9-100.9 ft msl	365.1 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/02/95	08/31/95	02/15/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.1	221.4	220.3	218.9	ft msl
pH	7.2	10.1	6.8	9.0	pH
Sp. conductance	83	134	100	120	µS/cm
Water temperature	19.1	18.5	20.0	29.0	°C
Alkalinity as CaCO ₃	33	29	35	28	mg/L
Turbidity	14	9	19	8	NTU
Volume purged	2.4	0.94	2.1	0.83	well volume
Sampling code		X		X	
Synchronous water level	220.3 (03/23/95)	220.8 (08/08/95)	220.0 (03/11/96)	219.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	31	38	30	44	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.5	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<0.050	0.37	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				<0.13	1		µg/L	GE	0
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.12	<0.050	0.10	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	0
		Trichloroethylene	1.5	0.92	0.92	0.74	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
■		Aluminum, total recoverable	83			360	1		µg/L	GE	2
		Chloride	2,400	2,700	2,300	2,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	10	5.3	15	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.91	1	V	µg/L	GE	0
		Copper, total recoverable				<1.5	1	V	µg/L	GE	0
		Fluoride	<50	45	<100	<100	1		µg/L	GE	0
		Manganese, total recoverable	5.6		7.9	5.3	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	0.16	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	990	1,200	820	1,600	1	V	µg/L	GE	0
■		Sodium, total recoverable				5,600	1		µg/L	GE	0
		Sulfate			1,500	1,400	1		µg/L	GE	0
		Total phosphates (as P)	220	50	<50	<30	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.4	10		15	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.6E+00		2.0E+00	1.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.3E+00		4.8E+00	3.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+00		-1.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 14D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104278.7 E51360.8	33.340188 °N 81.734162 °W	235.1-215.1 ft msl	382.4 ft msl	2" PVC	V	M

SAMPLE DATE	03/17/95	09/20/95	01/08/96	07/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.5	233.1	232.7	232.8	ft msl
pH	7.6	6.2		5.6	pH
Sp. conductance	204	112		28	µS/cm
Water temperature	17.4	20.2		30.0	°C
Alkalinity as CaCO ₃	89	34		8	mg/L
Turbidity	47	46		13	NTU
Volume purged	0.35	0.68		3.1	well volume
Sampling code	X		P		
Synchronous water level	233.7 (03/23/95)	232.8 (08/07/95)	232.6 (03/11/96)	232.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	14			4.9	1	V	µg/L	GE	0
		Cyanide	<20			<1.6	1	V	µg/L	GE	0
		Lead, total recoverable	2.0			5.7	1		µg/L	GE	0
		Nickel, total recoverable	13			7.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<1.4			<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050		<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.34		<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	1.1	2.1		1.6	1	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050		<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<0.050		<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	20	28		26	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	1.5		<2.0	1		µg/L	GE	0
■		Trichloroethylene	80	120		50	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	170			170	1	V	µg/L	GE	2
		Chloride	2,100			1,600	1		µg/L	GE	0
		Chromium, total recoverable	3.7			11	1		µg/L	GE	0
		Cobalt, total recoverable				2.3	1	JE	µg/L	GE	0
		Copper, total recoverable				28	1		µg/L	GE	0
		Fluoride	<500			<100	1		µg/L	GE	0
		Manganese, total recoverable	33			28	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.20			<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	300			1,600	1		µg/L	GE	0
		Sodium, total recoverable	18,000			3,400	1	V	µg/L	GE	0
		Sulfate	3,400			270	1	JE	µg/L	GE	0
		Total phosphates (as P)	50			30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	19			38	1		µg/L	GE	0
Radionuclides											
		Gross alpha	-5.1E-01			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.3E+00			1.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 15D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104500.6 E51383.8	33.340716 °N 81.734534 °W	236.2-216.2 ft msl	383.4 ft msl	2" PVC	V	M

SAMPLE DATE 03/17/95 09/20/95 01/09/96 08/15/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.8	235.4	234.9	234.4	ft msl
pH	6.6	5.9	6.8	5.8	pH
Sp. conductance	186	140	260	82	µS/cm
Water temperature	22.0	20.4	22.0	26.0	°C
Alkalinity as CaCO ₃	79	43	21	28	mg/L
Turbidity	281	29	51	42	NTU
Volume purged	0.65	0.95	0.0	2.0	well volume
Sampling code	X	X	X	X	
Synchronous water level	235.0 (03/23/95)	235.1 (08/07/95)	234.9 (03/11/96)	234.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	30	9.5	59	9.1	1		µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	32	<5.0	70	300	1		µg/L	GE	2
		Nickel, total recoverable	39	12	28	9.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<1.9	<1.5	<2.7	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.080	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.68	<2.0	1.3	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	30	26	4.2	12	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	620	490		870	1	J	µg/L	GE	2
		Chloride	2,500	2,500	2,200	2,100	1		µg/L	GE	0
		Chromium, total recoverable	5.9	10	34	9.6	1		µg/L	GE	0
		Cobalt, total recoverable				<1.3	1	V	µg/L	GE	0
		Copper, total recoverable			62	100	1		µg/L	GE	0
		Fluoride	<500	<100	<100	<100	1	J	µg/L	GE	0
		Manganese, total recoverable	110	54	88	36	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.20	<0.20	0.058	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	640	770	800	900	1		µg/L	GE	0
		Sodium, total recoverable	27,000	9,000	5,500	6,100	1		µg/L	GE	0
		Sulfate	5,900	2,200	2,400	2,200	1	V	µg/L	GE	0
		Total phosphates (as P)	700	<160	2,100	310	1		µg/L	GE	0
		Uranium, total recoverable				19	1	JE	µg/L	GE	1
		Zinc, total recoverable	85	<26		53	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	3.9E+00	5.5E-01	5.7E-01	1.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.1E+00	2.5E+00	1.7E-01	2.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	8.0E-01		9.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 16D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104268.8 E51557.5	33.340488 °N 81.733625 °W	233.4-213.4 ft msl	380.4 ft msl	2" PVC	V	M

SAMPLE DATE	03/16/95	09/18/95	01/08/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.4	235.0	234.6	234.1	ft msl
pH	5.7	5.1	5.6	4.6	pH
Sp. conductance	35	47	34	34	µS/cm
Water temperature	22.5	20.8	23.0	21.0	°C
Alkalinity as CaCO ₃	8	12	3	30	mg/L
Turbidity	5	11	4	4	NTU
Volume purged	2.3	3.4	5.8	3.0	well volume
Sampling code	P				
Synchronous water level	234.4 (03/23/95)	234.6 (08/07/95)	234.5 (03/11/96)	233.9 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	1.2	1.2	1.2	1.9	1	JE	µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.8	2.1	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	2.7	2.6	<10	3.9	1	JE	µg/L	GE	0
		Selenium, total recoverable	<5.0	2.1	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	0.26	<2.0	0.22	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	8.5	6.6	2.2	4.2	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	110	73		<20	1	J	µg/L	GE	0
		Chloride	2,700	2,900	2,400	2,700	1		µg/L	GE	0
		Chromium, total recoverable	<4.0	2.4	1.3	1.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable			0.21	<0.27	1	V	µg/L	GE	0
		Copper, total recoverable			0.81	5.6	1		µg/L	GE	0
		Fluoride	<100	<100	<100	<100	1	J	µg/L	GE	0
		Manganese, total recoverable	2.9	2.0	2.1	2.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	0.046	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	510	480	680	890	1		µg/L	GE	0
		Sodium, total recoverable	6,800	7,300	5,900	4,700	1		µg/L	GE	0
		Sulfate	3,300	5,400	3,600	2,300	1	V	µg/L	GE	0
		Total phosphates (as P)	<100	<100	<50	<40	1	V	µg/L	GE	0
		Uranium, total recoverable				28	1		µg/L	GE	2
		Zinc, total recoverable	<5.0	3.0	<5.0	<5.0	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	5.1E-01	5.4E-01	1.6E+00	1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.4E+00	3.1E-01	1.8E+00	9.3E-01	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01		0.0E+00	6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 17A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104056.7 E51465.4	33.339868 °N 81.733455 °W	125.0-120.0 ft msl	379.1 ft msl	4" PVC	S	MCBC

SAMPLE DATE 03/16/95 09/19/95 01/08/96 08/14/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.7	220.4	220.2	219.1	ft msl
pH	5.2	5.2	5.4	5.6	pH
Sp. conductance	20	23	22	42	µS/cm
Water temperature	19.0	19.4	25.0	22.0	°C
Alkalinity as CaCO ₃	1	7	2	1	mg/L
Turbidity	209	7	4	2	NTU
Volume purged	5.4	3.3	4.1	2.8	well volume
Sampling code	P				
Synchronous water level	220.4 (03/23/95)	221.0 (08/08/95)	220.2 (03/11/96)	220.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	6.8	2.5	2.3	2.5	1		µg/L	WA	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	1.2	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<10	1.4	<10	3.4	1	JE	µg/L	WA	0
		Selenium, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
■		Tetrachloroethylene	34	54	56	56	1		µg/L	WA	2
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
● ■		Trichloroethylene	400	580	520	570	5	J	µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	230	25		60	1		µg/L	GE	2
		Chloride	1,700	1,900	1,800	2,400	1	V	µg/L	WA	0
		Chromium, total recoverable	<4.0	0.83	<4.0	2.2	1	JE	µg/L	WA	0
		Cobalt, total recoverable			<4.0	0.78	1	JE	µg/L	GE	0
		Copper, total recoverable			<4.0	9.0	1		µg/L	GE	0
		Fluoride	<100	<100	<100	<14	1	V	µg/L	WA	0
		Manganese, total recoverable	44	23	15	13	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	0.062	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	940	930	990	1,300	1	V	µg/L	GE	0
		Sodium, total recoverable	3,000	2,000	2,000	1,900	1	V	µg/L	GE	0
		Sulfate	800	270	310	480	1		µg/L	WA	0
		Total phosphates (as P)	120	<100	<50	9.2	1	JE	µg/L	WA	0
		Uranium, total recoverable				<14	1	V	µg/L	GE	0
		Zinc, total recoverable	6.1	6.5	<6.1	22	1	JE	µg/L	WA	0
Radionuclides											
		Gross alpha	5.4E-01	2.0E-01	1.1E+00	7.0E-02	1	UI	pCi/L	TM	0
		Nonvolatile beta	6.0E-01	3.3E-01	1.3E+00	1.4E-01	1	UI	pCi/L	GP	0
■		Radium, total alpha-emitting	6.0E-01		2.0E-01	8.3E+00	1		pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 18A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103988.8 E51418.8	33.339642 °N 81.733446 °W	136.4-131.4 ft msl	377.3 ft msl	4" PVC	S	MCBC

SAMPLE DATE	03/15/95	09/18/95	01/08/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.0	220.7	220.1	219.5	ft msl
pH	5.5	5.3	5.4	6.6	pH
Sp. conductance	23	27	22	26	µS/cm
Water temperature	19.1	20.4	20.0	22.0	°C
Alkalinity as CaCO ₃	4	4	0	1	mg/L
Turbidity	30	3	1	2	NTU
Volume purged	4.1	2.5	4.7	2.7	well volume
Sampling code	P				
Synchronous water level	220.2 (03/23/95)	221.1 (08/08/95)	220.0 (03/11/96)	219.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.7	5.0	4.6	5.2	1		µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<2.0	<10	<10	2.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	0.080	<2.0	0.12	2		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE	0
		Tetrachloroethylene	3.1	2.1	1.8	3.5	2		µg/L	GE	1
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE	0
■		Trichloroethylene	50	53	41	47	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	970	13		<20	1	J	µg/L	GE	0
		Chloride	2,200	1,900	2,100	2,300	1		µg/L	GE	0
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable			<4.0	<0.39	1	V	µg/L	GE	0
		Copper, total recoverable			<4.0	37	1		µg/L	GE	0
		Fluoride	<100	<100	<100	<100	1	J	µg/L	GE	0
		Manganese, total recoverable	17	7.5	7.1	5.2	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	0.032	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,000	880	840	1,100	1		µg/L	GE	0
		Sodium, total recoverable	3,200	2,300	2,300	2,100	1		µg/L	GE	0
		Sulfate	910	370	390	<340	1	V	µg/L	GE	0
		Total phosphates (as P)	<100	<100	<50	<30	1	V	µg/L	GE	0
		Uranium, total recoverable				41	1		µg/L	GE	2
		Zinc, total recoverable	4.3	4.0	<3.2	22	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+00	2.5E-01	1.5E+00	8.9E-02	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.4E+00	1.9E-01	1.2E+00	8.8E-02	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	0.0E+00		-2.0E-01	-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

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WELL AMB 18C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103983.4 E51432.8	33.339653 °N 81.733398 °W	214.2-209.2 ft msl	376 ft msl	2" PVC	V	UL

SAMPLE DATE 03/16/95 09/18/95 01/09/96 08/16/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.5	235.2	234.6	234.2	ft msl
pH	6.0	5.3	5.8	5.2	pH
Sp. conductance	33	39	30	30	µS/cm
Water temperature	22.0	20.5	28.0	22.0	°C
Alkalinity as CaCO ₃	9	2	7	8	mg/L
Turbidity	5	11	1	10	NTU
Volume purged	0.96	3.1	2.9	3.2	well volume
Sampling code	P				
Synchronous water level	234.5 (03/23/95)	234.6 (08/08/95)	234.8 (03/11/96)	234.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	3.5	2.5	1.8	2.0	1	JE	µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	59	3.9	1	JE	µg/L	GE	0
		Nickel, total recoverable	6.9	2.5	<2.3	2.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<5.0	2.8	<5.0	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	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		
●		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	25	89		73	1		µg/L	GE	2
		Chloride	2,700	2,500	2,800	2,800	1		µg/L	GE	0
		Chromium, total recoverable	3.4	2.8	<1.1	3.4	1	JE	µg/L	GE	0
		Cobalt, total recoverable			<0.56	0.47	1	JE	µg/L	GE	0
		Copper, total recoverable			39	<4.2	1	V	µg/L	GE	0
		Fluoride	<100	<100	<100	<100	1	J3	µg/L	GE	0
		Manganese, total recoverable	12	9.6	7.6	8.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.017	<0.20	0.046	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	410	460	240	740	1	V	µg/L	GE	0
■		Sodium, total recoverable	5,200	5,600	4,800	4,700	1	J	µg/L	GE	0
		Sulfate	1,800	2,400	1,600	<1,100	1	V	µg/L	GE	0
		Total phosphates (as P)	<100	<100	<50	<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	4.4	5.8	<23	10	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.8E-01	6.4E-01	2.4E-01	7.9E-02	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.8E-01	4.1E-01	6.8E-01	8.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01		-1.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

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WELL AMB 19C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102941.1 E51503.7	33.337465 °N 81.731184 °W	196.7-191.7 ft msl	363.7 ft msl	2" PVC	V	UL

SAMPLE DATE	03/16/95	09/19/95	01/15/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.2	232.5	232.0	231.8	ft msl
pH	5.7	5.4	5.2	6.0	pH
Sp. conductance	49	58	76	74	µS/cm
Water temperature	20.4	18.9	30.0	27.0	°C
Alkalinity as CaCO ₃	2	10	10	6	mg/L
Turbidity	10	109	2	1	NTU
Volume purged	1.8	2.5	2.4	3.3	well volume
Sampling code	P				
Synchronous water level	232.5 (03/23/95)	232.7 (08/08/95)	232.4 (03/11/96)	231.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	0.99	4.7	0.99	0.79	1	JEV	µg/L	GE	0
		Cyanide	<20	<10	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	10	12	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	2.5	5.5	<10	1.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<1.7	2.4	<3.6	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	89	230		<22	1	V	µg/L	GE	0
		Chloride	2,200	2,500	2,300	2,000	1	V	µg/L	GE	0
		Chromium, total recoverable	2.5	6.3	2.2	1.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.28	1	JE	µg/L	GE	0
		Copper, total recoverable				<2.3	1	V	µg/L	GE	0
		Fluoride	<100	<100	<100	23	1	JE	µg/L	GE	0
		Manganese, total recoverable	1.3	2.6	0.70	<0.63	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.20	0.26	0.040	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	90	120	90	420	1	V	µg/L	GE	0
■		Sodium, total recoverable	11,000	10,000	12,000	11,000	1	V	µg/L	GE	0
■		Sulfate	9,400	9,300	9,000	8,800	1		µg/L	GE	0
		Total phosphates (as P)	<100	70	<90	<50	1	J	µg/L	GE	0
		Uranium, total recoverable				13	1	JE	µg/L	GE	1
		Zinc, total recoverable	<5.0	16		<5.0	1		µg/L	GE	0

Radionuclides

Gross alpha	-3.2E-01	5.0E-01	4.3E-01	4.9E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	3.7E-01	1.9E+00	3.5E-01	2.6E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	-4.0E-01		0.0E+00	-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

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WELL AOB 1

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101910.7 E50485.9	33.333525 °N 81.731860 °W	248.5-218.5 ft msl	341.1 ft msl	4" PVC	S	M

SAMPLE DATE	01/13/95	08/21/95	01/08/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	236.9	238.1	237.3	237.0	ft msl
pH	5.3	5.0	5.2	5.6	pH
Sp. conductance	35	38	38	48	µS/cm
Water temperature	18.7	19.3	27.0	24.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	0	2	1	1	NTU
Volume purged	7.5	4.7	6.6	4.1	well volume
Sampling code					
Synchronous water level	237.6 (03/23/95)	238.1 (08/08/95)	232.9 (03/14/96)	236.8 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	13	12	12	12	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	2.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	43	51	44	17	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	40	46	34	16	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<39	1	V	µg/L	GE	0
		Chloride				3,400	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.86	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<1.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				14	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				1,600	1	V	µg/L	GE	0
		Sodium, total recoverable				3,000	1	V	µg/L	GE	0
		Sulfate				250	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		4.7	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	3.5E+00		2.0E+00	1.9E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.1E+00			3.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

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■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AOB 2

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102009.8 E50724.7	33.334134 °N 81.731424 °W	250.2-220.2 ft msl	345.4 ft msl	4" PVC	S	M

SAMPLE DATE	01/13/95	08/18/95	02/15/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	237.7	238.8	234.0	227.1	ft msl
pH	5.4	5.1		6.0	pH
Sp. conductance	18	20		34	µS/cm
Water temperature	19.0	19.4		26.0	°C
Alkalinity as CaCO ₃	2	1		1	mg/L
Turbidity	1	6		3	NTU
Volume purged	7.8	13		16	well volume
Sampling code			P		
Synchronous water level	238.3 (03/23/95)	238.6 (08/08/95)	243.1 (03/14/96)	236.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.5	5.0		2.3	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20		<2.0	1	V	µg/L	GE	0
		Lead, total recoverable	5.1	5.8		<5.0	1		µg/L	GE	0
		Nickel, total recoverable	4.7	3.3		2.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.5		<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0		<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0		<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10		<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	1.6		<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0		<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<40	1	V	µg/L	GE	0
		Chloride				1,300	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		2.8	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<2.5	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				3.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.12		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				1,200	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen				2,700	1	V	µg/L	GE	0
		Sodium, total recoverable				440	1	JE	µg/L	GE	0
		Sulfate				30	1	JE	µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				14	1		µg/L	GE	0
		Zinc, total recoverable	15	15					µg/L	GE	0

Radionuclides

Gross alpha	2.0E+00		8.4E-01	1		pCi/L	GP	0
Nonvolatile beta	1.8E+00		1.4E+00	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	8.0E-01		5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 1A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105535.0 E52614.0	33.345012 °N 81.733306 °W	247.2-217.2 ft msl	349.1 ft msl	4" PVC	S	M

SAMPLE DATE	01/20/95	08/18/95	01/13/96	08/20/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	238.0	238.6	238.4	237.5	ft msl
pH	5.8	5.7	5.6	5.8	pH
Sp. conductance	59	70	90	66	µS/cm
Water temperature	18.7	19.5	28.0	26.0	°C
Alkalinity as CaCO ₃	13	11	14	22	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	4.5	6.1	6.7	4.3	well volume
Sampling code					
Synchronous water level	238.3 (03/22/95)	238.4 (08/07/95)	236.3 (03/12/96)	237.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Barium, total recoverable	14	10	12	11	1		µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	1.5	<2.0	1.6	1	JE	µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1		µg/L	GE	0	
		Tetrachloroethylene	3.8	4.4	2.6	3.0	1		µg/L	GE	1	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		Trichloroethylene	1.8	2.0	1.2	1.1	1	JE	µg/L	GE	0	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Aluminum, total recoverable	<33		<23	<19	1	V	µg/L	GE	0	
		Chloride	4,500			5,400	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	1.4		1.7	1	JE	µg/L	GE	0	
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0	
		Copper, total recoverable	18			30	1		µg/L	GE	0	
		Fluoride	<50			<100	1		µg/L	GE	0	
		Manganese, total recoverable	2.3		1.3	2.9	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.038	0.093	0.079	1	JE	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	640			680	1		µg/L	GE	0	
		Sodium, total recoverable	10,000			13,000	1		µg/L	GE	0	
		Sulfate	6,800			6,000	1		µg/L	GE	0	
		Total phosphates (as P)	<83			60	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	2.2E+00			6.8E-01	1	UI	pCi/L	GP	0	
		Nonvolatile beta	1.9E+00			2.9E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	1.2E+00			0.0E+00	1	UI	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 2AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105550.5 E52881.7	33.345483 °N 81.732631 °W	240.1-220.2 ft msl	355.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/26/95	08/18/95	01/10/96	08/21/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	239.1	239.9	240.0	238.8	ft msl
pH	5.6	5.7	6.0	5.4	pH
Sp. conductance	71	68	88	66	µS/cm
Water temperature	18.2	18.8	26.0	21.0	°C
Alkalinity as CaCO ₃	14	14	10	19	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	10	9.3	12	5.5	well volume
Sampling code					
Synchronous water level	239.7 (03/22/95)	239.7 (08/07/95)	239.9 (03/11/96)	238.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	12	9.2	9.7	12	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<0.70	<10	<2.2	0.82	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
•		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
•		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
•		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
•		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1	J1	µg/L	GE	0
•		Tetrachloroethylene	1.6	<2.0	<2.0	<0.66	1	JV1	µg/L	GE	0
•		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
•		Trichloroethylene	<1.7	<2.0	<2.0	0.13	1	J1	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			16	1	JE	µg/L	GE	0
■		Chloride	4,600			5,200	1		µg/L	GE	0
		Chromium, total recoverable	6.4	5.0		7.6	1		µg/L	GE	0
		Cobalt, total recoverable				0.42	1	JE	µg/L	GE	0
		Copper, total recoverable	2.1			3.0	1	JE	µg/L	GE	0
		Fluoride	77			22	1	JE	µg/L	GE	0
		Manganese, total recoverable	5.3			5.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.17	<0.081		<0.072	1	V	µg/L	GE	0
		Nitrate as nitrogen	300						µg/L		
		Nitrate-nitrite as nitrogen	250			460	1		µg/L	GE	0
■		Sodium, total recoverable	12,000			12,000	1	V	µg/L	GE	0
■		Sulfate	7,800			4,900	1		µg/L	GE	0
		Total phosphates (as P)	5.0			80	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<2.1	<5.0		3.4	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	2.5E+00			1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.8E-01			3.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00			1.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

• = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 2CR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105540.2 E52862.7	33.345430 °N 81.732661 °W	183.1-173.1 ft msl	355.6 ft msl	4" PVC	S	LL

SAMPLE DATE	01/26/95	08/21/95	01/12/96	08/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.9	225.2	224.7	223.0	ft msl
pH	5.8	5.8	5.4	6.0	pH
Sp. conductance	97	82	80	70	µS/cm
Water temperature	18.8	19.6	26.0	25.0	°C
Alkalinity as CaCO ₃	19	25	16	1	mg/L
Turbidity	3	2	6	1	NTU
Volume purged	4.6	3.6	7.0	4.1	well volume
Sampling code					
Synchronous water level	224.4 (03/22/95)	224.8 (08/07/95)	224.7 (03/11/96)	223.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	52	42	47	34	1		µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	20	1.5	1	JE	µg/L	GE	0	
		Nickel, total recoverable	<6.7	0.94	<10	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<10	<2.0	<0.25	5		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<10	<2.0	<0.25	5		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<10	<2.0	<0.25	5		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<10	<2.0				µg/L			
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<50	<2.0	<0.25	5		µg/L	GE	0	
	■	Tetrachloroethylene	21	14	17	13	5		µg/L	GE	2	
		1,1,1-Trichloroethane	<1.7	<10	<2.0	<0.25	5		µg/L	GE	0	
	■	Trichloroethylene	170	110	160	110	5		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
	■	Aluminum, total recoverable	29			75	1		µg/L	GE	2	
		Chloride	8,100			8,800	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		2.1	1	JE	µg/L	GE	0	
		Cobalt, total recoverable				0.61	1	JE	µg/L	GE	0	
		Copper, total recoverable	<6.7			<1.6	1	V	µg/L	GE	0	
		Fluoride	<50			<100	1		µg/L	GE	0	
		Manganese, total recoverable	22			16	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.20		0.025	1	JE	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	760			1,300	1	V	µg/L	GE	0	
		Sodium, total recoverable	8,600			2,500	1	J	µg/L	GE	0	
		Sulfate	2,000			370	1	JE	µg/L	GE	0	
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	6.1	6.2		9.9	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	1.7E+00			1.4E+00	1		pCi/L	GP	0	
		Nonvolatile beta	1.1E+00			1.1E+00	1	UI	pCi/L	GP	0	
		Radium, total alpha-emitting	5.0E-01			3.0E-01	1	UI	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 3AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105605.1 E53115.0	33.345985 °N 81.732123 °W	243.1-223.1 ft msl	341.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/24/95	08/18/95	01/11/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	239.5	240.5	240.5	239.4	ft msl
pH	6.3	5.7	6.2	5.6	pH
Sp. conductance	52	59	60	54	µS/cm
Water temperature	18.1	19.4	30.0	25.0	°C
Alkalinity as CaCO ₃	10	10	10	7	mg/L
Turbidity	1	0	1	4	NTU
Volume purged	6.8	5.5	8.8	4.4	well volume
Sampling code					
Synchronous water level	240.3 (03/22/95)	240.4 (08/07/95)	240.4 (03/11/96)	239.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	20	17	16	20	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	2.3	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	7.4	1.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	3.7	<1.9	2.4	1	JE	µg/L	GE	0

Organics

•		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
•		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
•		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
•		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1	J1	µg/L	GE	0
•		Tetrachloroethylene	<1.7	<2.0	<2.0	0.14	1	J1	µg/L	GE	0
•		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
•		Trichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33		92	<20	1		µg/L	GE	0
■		Chloride	3,200			4,600	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.90	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.66	1	JE	µg/L	GE	0
		Copper, total recoverable	<6.7			40	1		µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		1.1	1.4	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.088	<0.20	0.098	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	360			460	1		µg/L	GE	0
■		Sodium, total recoverable	11,000			11,000	1	V	µg/L	GE	0
■		Sulfate	6,700			5,200	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		29	1		µg/L	GE	0

Radionuclides

		Gross alpha	4.5E-01			-1.1E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.3E-02			8.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

• = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 3CR

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105614.5 E53130.4	33.346031 °N 81.732101 °W	184.0-174.0 ft msl	341.5 ft msl	4" PVC	S	LL

SAMPLE DATE	01/24/95	08/21/95	01/09/96	08/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.5	224.8	224.3	221.9	ft msl
pH	5.5	5.2	5.4	5.4	pH
Sp. conductance	46	48	48	44	µS/cm
Water temperature	18.0	19.3	29.0	25.0	°C
Alkalinity as CaCO ₃	4	2	4	1	mg/L
Turbidity	0	1	0	1	NTU
Volume purged	3.1	3.5	4.3	5.3	well volume
Sampling code					
Synchronous water level	224.0 (03/22/95)	224.5 (08/07/95)	224.3 (03/11/96)	223.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
		Inorganics									
		Barium, total recoverable	950	840	700	670	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<1.1	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<17	<2.0	<2.0	<0.25	5		µg/L	GE	0
		1,1-Dichloroethane	<17	<2.0	<2.0	<0.25	5		µg/L	GE	0
		1,1-Dichloroethylene	<17	<2.0	<2.0	<0.25	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<2.0	<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<10	<2.0	<0.25	5		µg/L	GE	0
	■	Tetrachloroethylene	20	1.5	12	7.7	5		µg/L	GE	2
		1,1,1-Trichloroethane	<17	<2.0	<2.0	<0.25	5		µg/L	GE	0
	■	Trichloroethylene	330	26	270	130	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
		Inorganics									
	■	Aluminum, total recoverable	23			<20	1		µg/L	GE	0
		Chloride	7,300			7,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			<3.8	1	V	µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	2.9			2.2	1	V	µg/L	GE	0
		Mercury, total recoverable	0.42	0.26		0.076	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	640			740	1	V	µg/L	GE	0
		Sodium, total recoverable	4,700			4,200	1	J	µg/L	GE	0
		Sulfate	1,700			590	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		7.1	1		µg/L	GE	0
		Radionuclides									
		Gross alpha	5.2E+00			9.7E-01	1		pCi/L	GP	0
		Nonvolatile beta	3.8E+00			1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.9E+00			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 4

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105935.7 E53177.2	33.346818 °N 81.732602 °W	256.1-226.1 ft msl	335.6 ft msl	4" PVC	S	M

SAMPLE DATE	02/22/95	08/18/95	01/13/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	238.6	239.8	239.6	238.7	ft msl
pH	5.6	5.7	5.4	5.4	pH
Sp. conductance	54	51	62	46	µS/cm
Water temperature	21.4	21.5	29.0	26.0	°C
Alkalinity as CaCO ₃	9	8	9	20	mg/L
Turbidity	5	27	35	81	NTU
Volume purged	4.9	8.1	6.0	3.5	well volume
Sampling code	P				
Synchronous water level	239.4 (03/22/95)	239.6 (08/07/95)	239.6 (03/12/96)	238.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.9	13	9.8	15	1	V	µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	2.1	15	7.0	10	1		µg/L	GE	0
		Nickel, total recoverable	<10	5.9	<10	5.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	2.3	2.8	<1.7	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1	J1	µg/L	GE	0
●		Tetrachloroethylene	<1.7	<2.0	<2.0	<0.11	1	JV1	µg/L	GE	0
●		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		Trichloroethylene	1.6	2.1	1.7	1.9	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	25			640	1	V	µg/L	GE	2
		Chloride	2,400			3,000	1		µg/L	GE	0
		Chromium, total recoverable	<4.0	15		13	1		µg/L	GE	0
		Cobalt, total recoverable				0.61	1	JE	µg/L	GE	0
		Copper, total recoverable	1.7			13	1		µg/L	GE	0
		Fluoride	<100			<100	1		µg/L	GE	0
		Manganese, total recoverable	3.0		15	33	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.20	<0.058		0.24	1		µg/L	GE	0
		Nitrate as nitrogen				990	1		µg/L	GE	0
		Nitrate-nitrite as nitrogen	820			9,200	1		µg/L	GE	0
■		Sodium, total recoverable	8,300			4,600	1		µg/L	GE	0
■		Sulfate	5,100			4,600	1		µg/L	GE	0
		Total phosphates (as P)	37			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	6.0	21		68	1		µg/L	GE	0
Radionuclides											
■		Gross alpha	1.5E+00			1.9E+01	1		pCi/L	GP	2
■		Nonvolatile beta	1.2E+00			5.4E+02	1		pCi/L	GP	2
■		Radium, total alpha-emitting	9.0E-01			5.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 5AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105900.5 E52854.4	33.346213 °N 81.733384 °W	243.8-223.8 ft msl	347 ft msl	4" PVC	S	M

SAMPLE DATE	02/03/95	08/22/95	02/21/96	08/20/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	237.5	238.0	238.1	246.1	ft msl
pH	5.0	5.5		5.2	pH
Sp. conductance	59	65		260	µS/cm
Water temperature	17.9	26.1		30.0	°C
Alkalinity as CaCO ₃	8	8		7	mg/L
Turbidity	8	27		11	NTU
Volume purged	0.56	0.21		0.34	well volume
Sampling code	X		P	X	
Synchronous water level	237.7 (03/22/95)	237.9 (08/07/95)	238.1 (03/11/96)	237.2 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	5.1	5.5		4.0	1		µg/L	GE	0
		Cyanide	<8.3	<20		<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<12		3.8	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	4.4		4.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	2.5	<5.0		<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0		<0.25	5		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0		<0.25	5		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0		<0.25	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0					µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10		<0.25	5		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0		0.35	5		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0		<0.25	5		µg/L	GE	0
■		Trichloroethylene	59	90		200	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	95			<44	1	V	µg/L	GE	0
■		Chloride	3,700			4,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	4.5		1.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			14	1		µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	5.6			5.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.29	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	490			520	1	V	µg/L	GE	0
■		Sodium, total recoverable	9,600			11,000	1		µg/L	GE	0
■		Sulfate	6,200			6,100	1		µg/L	GE	0
		Total phosphates (as P)	110			<50	1		µg/L	GE	0
		Uranium, total recoverable				20	1		µg/L	GE	2
		Zinc, total recoverable	4.0	510		13	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.4E-01			6.7E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.8E-01			5.7E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 5C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105884.8 E52837.8	33.346151 °N 81.733397 °W	175.1-165.1 ft msl	347.3 ft msl	4" PVC	S	LL

SAMPLE DATE	02/02/95	08/22/95	02/21/96	08/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.1	224.8	224.6	223.1	ft msl
pH	5.6	5.5		5.4	pH
Sp. conductance	47	40		38	µS/cm
Water temperature	19.1	19.7		27.0	°C
Alkalinity as CaCO ₃	7	5		1	mg/L
Turbidity	1	5		1	NTU
Volume purged	2.7	3.6		4.9	well volume
Sampling code			P		
Synchronous water level	224.0 (03/22/95)	224.6 (08/07/95)	224.6 (03/11/96)	224.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.5	6.8		7.5	1		µg/L	GE	0
		Cyanide	<8.3	<20		<10	1		µg/L	GE	0
■		Lead, total recoverable	1.9	<3.1		22	1		µg/L	GE	0
		Nickel, total recoverable	28	<10		<10	1		µg/L	GE	0
		Selenium, total recoverable	3.5	<5.0		<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0		<1.0	20		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0		<1.0	20		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0		<1.0	20		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0					µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10		<1.0	20		µg/L	GE	0
■		Tetrachloroethylene	120	61		93	20		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0		<1.0	20		µg/L	GE	0
■		Trichloroethylene	370	270		400	20		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
■		Chloride	4,600			4,300	1		µg/L	GE	0
		Chromium, total recoverable	1.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.19	1	JE	µg/L	GE	0
		Copper, total recoverable	12			<4.5	1	V	µg/L	GE	0
		Fluoride	<18			<100	1	J	µg/L	GE	0
		Manganese, total recoverable	8.7			7.1	1	V	µg/L	GE	0
		Mercury, total recoverable	0.080	0.096		0.23	1		µg/L	GE	0
		Nitrate as nitrogen	950						µg/L		
		Nitrate-nitrite as nitrogen	1,000			1,200	1	V	µg/L	GE	0
		Sodium, total recoverable	2,600			2,400	1	J	µg/L	GE	0
		Sulfate	390			<240	1	V	µg/L	GE	0
		Total phosphates (as P)	6.7			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	24	3.6		8.7	1		µg/L	GE	0
Radionuclides											
		Gross alpha	8.4E-01			4.4E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	6.5E-01			1.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			3.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 6A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105716.0 E52675.9	33.345513 °N 81.733495 °W	248.2-218.2 ft msl	350.2 ft msl	4" PVC	S	M

SAMPLE DATE	01/24/95	08/29/95	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	237.1	238.2		248.5	ft msl
pH	5.8	5.6		7.6	pH
Sp. conductance	67	79		70	µS/cm
Water temperature	18.0	19.3		26.0	°C
Alkalinity as CaCO ₃	5	4		28	mg/L
Turbidity	1	2		30	NTU
Volume purged	9.1	13		3.4	well volume
Sampling code					
Synchronous water level	237.8 (03/22/95)	238.0 (08/07/95)	238.2 (03/12/96)	236.8 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	4.6	2.4		3.1	1		µg/L	GE	0
		Cyanide	<8.3	<20		<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0		<5.0	1		µg/L	GE	0
		Nickel, total recoverable	8.2	5.5		16	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.5		<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0		<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0		<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0		<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10		<0.050	1		µg/L	GE	0
		Tetrachloroethylene	1.5	1.2		1.6	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0		<0.050	1		µg/L	GE	0
		Trichloroethylene	1.1	<2.0		1.2	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
■		Aluminum, total recoverable	<33			120	1	J	µg/L	GE	2
■		Chloride	4,800			5,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.2		26	1		µg/L	GE	0
		Cobalt, total recoverable				0.65	1	JE	µg/L	GE	0
		Copper, total recoverable	<6.7			2.5	1	JE	µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	11			14	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.042	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,700			2,000	2	V	µg/L	GE	0
■		Sodium, total recoverable	14,000			15,000	1		µg/L	GE	0
■		Sulfate	9,600			7,500	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		5.0	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	3.8E+00			2.0E+00	1		pCi/L	GP	0
		Nonvolatile beta	7.2E-01			9.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.3E+00			4.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 6AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105727.0 E52643.9	33.345485 °N 81.733601 °W	82.8-78.1 ft msl	354.2 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/25/95	08/21/95	01/09/96	08/20/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.1	220.3	219.7	219.1	ft msl
pH	10.5	10.5	10.6	10.4	pH
Sp. conductance	107	142	200	180	µS/cm
Water temperature	18.0	19.7	28.0	27.0	°C
Alkalinity as CaCO ₃	42	29	14	122	mg/L
Turbidity	1	1	2	1	NTU
Volume purged	4.0	4.6	2.9	3.3	well volume
Sampling code					
Synchronous water level	219.8 (03/22/95)	219.8 (08/07/95)	219.7 (03/11/96)	219.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	12	14	14	14	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.4	<5.0	4.8	1	JE	µg/L	WA	0
		Nickel, total recoverable	<6.7	1.7	<1.5	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.2	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<42	<100	<50	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<42	<100	<50	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<42	<100	<50	0.13	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<100	<50				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<500	<50	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<42	<100	<50	19	1		µg/L	GE	2
		1,1,1-Trichloroethane	<42	<100	<50	<0.050	1		µg/L	GE	0
		Trichloroethylene	3,100	2,800	2,500	3,200	20		µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	270			280	1	V	µg/L	GE	2
		Chloride	2,100			2,200	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	1.3		1.2	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.29	1	JE	µg/L	GE	0
		Copper, total recoverable	<6.7			2.1	1	JE	µg/L	GE	0
		Fluoride	<50			100	1		µg/L	GE	0
		Manganese, total recoverable	5.4	5.9		6.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.14	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200			1,600	1	V	µg/L	GE	0
		Sodium, total recoverable	3,600			3,500	1		µg/L	GE	
		Sulfate	1,400			460	1		µg/L	WA	0
		Total phosphates (as P)	<83			18	1	JE	µg/L	WA	
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	6.5		9.0	1	JE	µg/L	WA	0
Radionuclides											
		Gross alpha	2.6E-01			2.1E-01	1	UI	pCi/L	TM	0
		Nonvolatile beta	6.0E-01			2.5E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	4.0E-01			3.1E-01	1	J1	pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 6C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105736.8 E52655.9	33.345527 °N 81.733588 °W	178.5-173.8 ft msl	353.6 ft msl	4" PVC	S	LL

SAMPLE DATE 01/24/95 08/22/95 01/09/96 08/19/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.8	226.2	225.7	224.6	ft msl
pH	5.5	5.1	5.4	5.0	pH
Sp. conductance	32	32	32	34	µS/cm
Water temperature	18.6	19.6	28.0	26.0	°C
Alkalinity as CaCO ₃	3	1	4	1	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	2.8	4.3	5.2	5.6	well volume
Sampling code					
Synchronous water level	224.8 (03/22/95)	226.0 (08/07/95)	225.8 (03/11/96)	225.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	11	11	10	10	1		µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.4	<5.0	1.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	<0.85	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.8	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<0.10	2		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.10	2		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.10	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<0.10	2		µg/L	GE	0
■		Tetrachloroethylene	44	46	34	36	2		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.10	2		µg/L	GE	0
■		Trichloroethylene	19	26	26	29	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	4,900			5,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.0		0.73	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.41	1	JE	µg/L	GE	0
		Copper, total recoverable	4.7			11	1	V	µg/L	GE	0
		Fluoride	<50			<100	1	J	µg/L	GE	0
		Manganese, total recoverable	20	17		15	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.038		0.13	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	400			700	1	V	µg/L	GE	0
		Sodium, total recoverable	2,600			2,500	1	J	µg/L	GE	0
		Sulfate	1,300			<210	1	V	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	11	20		18	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.2E+00			6.8E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.0E+00			1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.2E+00			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.
 ● = exceeded holding time for third quarter 1996.
 ■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 6TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105749.5 E52671.3	33.345580 °N 81.733573 °W	40.0-34.5 ft msl	352.9 ft msl	4" PVC	S	CBA

SAMPLE DATE	01/26/95	08/22/95	01/12/96	08/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.0	216.0	215.4	214.7	ft msl
pH	10.2	7.6	6.2	5.2	pH
Sp. conductance	85	91	120	260	µS/cm
Water temperature	15.2	20.8	7.4	30.0	°C
Alkalinity as CaCO ₃	29	22	25	7	mg/L
Turbidity	5	3	1	11	NTU
Volume purged	0.025	0.51	0.32	0.30	well volume
Sampling code	X		X	X	
Synchronous water level	215.5 (03/22/95)	214.9 (08/07/95)	215.3 (03/11/96)	215.3 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	18	18	20	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.3	<4.9	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	2.5	<5.0	<3.1	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<42	<50	<50	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<42	<50	<50	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<42	<50	<50	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<50	<50	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<250	<50	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	<42	<50	<50	6.4	1		µg/L	GE	2
		1,1,1-Trichloroethane	<42	<50	<50	<2.0	1		µg/L	GE	0
■		Trichloroethylene	780	970	700	670	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	180			130	1	V	µg/L	GE	2
		Chloride	2,200			1,800	1		µg/L	GE	0
		Chromium, total recoverable	13	9.5		8.7	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			0.85	1	JE	µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<0.88	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.59		0.053	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,000			1,300	1	V	µg/L	GE	0
■		Sodium, total recoverable	8,000			7,600	1		µg/L	GE	0
■		Sulfate	5,000			3,400	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	5.0	6.7		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00			7.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.0E+00			5.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 8

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106381.6 E53136.6	33.347737 °N 81.733577 °W	226.6-206.6 ft msl	349 ft msl	4" PVC	S	UL

SAMPLE DATE	01/24/95	08/29/95	01/10/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.6	235.8	235.8	235.2	ft msl
pH	5.0	5.0	5.1	4.6	pH
Sp. conductance	31	40	51	40	µS/cm
Water temperature	18.2	18.6	26.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	1	3	1	2	NTU
Volume purged	2.0	5.5	7.4	3.7	well volume
Sampling code					
Synchronous water level	235.0 (03/22/95)	235.6 (08/07/95)	235.6 (03/11/96)	234.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Barium, total recoverable	<5.0	1.4	1.1	1.2	1	JEV	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<1.6	1	V	µg/L	GE	0	
		Lead, total recoverable	4.7	8.7	5.3	13	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	1.4	<1.6	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<2.2	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1		µg/L	GE	0	
		Tetrachloroethylene	<1.7	<2.0	<2.0	0.23	1		µg/L	GE	0	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0	
		Trichloroethylene	1.8	1.3	1.4	1.4	1		µg/L	GE	0	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Aluminum, total recoverable	<33			<36	1	V	µg/L	GE	0	
		Chloride	3,400			2,800	1	V	µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<1.1	1	V	µg/L	GE	0	
		Cobalt, total recoverable				<1.1	1	V	µg/L	GE	0	
		Copper, total recoverable	52			100	1		µg/L	GE	0	
		Fluoride	<50			<100	1		µg/L	GE	0	
		Manganese, total recoverable	<3.3	0.42		0.29	1	JE	µg/L	GE	0	
		Mercury, total recoverable	<0.33	0.054		0.25	1	V	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	690			810	1		µg/L	GE	0	
		Sodium, total recoverable	5,200			6,100	1	V	µg/L	GE	0	
		Sulfate	3,200			4,600	1		µg/L	GE	0	
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	6.1	<11		21	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	2.5E+00			1.9E+00	1		pCi/L	GP	0	
		Nonvolatile beta	5.9E-01			2.1E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	9.0E-01			6.0E-01	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 8B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106362.3 E53109.6	33.347650 °N 81.733611 °W	128.4-122.8 ft msl	349.8 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/25/95	08/21/95	01/12/96	08/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.0	222.5	222.1	221.4	ft msl
pH	4.8	4.4	4.2	5.0	pH
Sp. conductance	27	31	32	34	µS/cm
Water temperature	18.5	19.7	29.0	22.0	°C
Alkalinity as CaCO ₃	1	0	0	0	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	2.5	2.8	3.4	2.7	well volume
Sampling code					
Synchronous water level	221.8 (03/22/95)	222.0 (08/07/95)	221.9 (03/11/96)	221.8 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.4	6.3	6.3	6.8	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J3	µg/L	GE	0
		Lead, total recoverable	3.5	<5.0	<5.0	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	<10	2.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.3	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<1.7	<100	<100	<5.0	100	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7	<100	<100	<5.0	100	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7	<100	<100	<5.0	100	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<100	<100				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<1.7	<500	<100	<5.0	100	J1	µg/L	GE	0
●	■	Tetrachloroethylene	18	<100	<100	7.0	100	JV1	µg/L	GE	2
●		1,1,1-Trichloroethane	<1.7	<100	<100	<5.0	100	J1	µg/L	GE	0
●	■	Trichloroethylene	2,200	2,200	2,100	1,900	100	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	25			28	1	J	µg/L	GE	1
		Chloride	2,400			2,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			3.2	1	JE	µg/L	GE	0
		Fluoride	36			<100	1		µg/L	GE	0
		Manganese, total recoverable	5.3			3.5	1	J	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.078	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,900			1,100	1	V	µg/L	GE	0
		Sodium, total recoverable	2,600			2,500	1		µg/L	GE	0
		Sulfate	1,300			160	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<7.9	1	V	µg/L	GE	0
		Zinc, total recoverable	17	9.8		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00			1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00			1.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.6E+00			8.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 8C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106354.4 E53101.0	33.347619 °N 81.733618 °W	188.3-182.7 ft msl	349.7 ft msl	4" PVC	S	UL

SAMPLE DATE	01/25/95	08/21/95	01/12/96	08/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.0	225.7	225.0	224.7	ft msl
pH	4.8	4.4	4.6	5.0	pH
Sp. conductance	40	46	48	50	µS/cm
Water temperature	18.3	19.5	27.0	21.0	°C
Alkalinity as CaCO ₃	1	1	0	0	mg/L
Turbidity	1	1	0	2	NTU
Volume purged	5.4	6.1	5.7	3.3	well volume
Sampling code					
Synchronous water level	224.6 (03/22/95)	225.4 (08/07/95)	225.3 (03/11/96)	225.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	10	11	10	12	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	2.3	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	3.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<420	<100	<100	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethane	<420	<100	<100	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<420	<100	<100	0.27	1	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<420	<100	<100				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<420	<500	<100	<0.050	1	J1	µg/L	GE	0
●		Tetrachloroethylene	<420	79	63	<50	1000	J1	µg/L	GE	0
●		1,1,1-Trichloroethane	<420	<100	<100	<0.050	1	J1	µg/L	GE	0
● ■		Trichloroethylene	10,000	7,700	8,100	11,000	1000	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	27			44	1	J	µg/L	GE	1
■		Chloride	5,200			6,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		5.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.20	1	JE	µg/L	GE	0
		Copper, total recoverable	<6.7			7.6	1		µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	5.0			5.7	1	J	µg/L	GE	0
■		Mercury, total recoverable	2.1	2.6		2.7	1		µg/L	GE	2
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,800			1,000	1	V	µg/L	GE	0
		Sodium, total recoverable	4,400			4,500	1		µg/L	GE	0
		Sulfate	1,300			150	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			230	1		µg/L	GE	0
		Uranium, total recoverable				<15	1	V	µg/L	GE	0
		Zinc, total recoverable	3.8	3.3		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.4E+00			2.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.8E+00			3.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.2E+00			1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 8TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106375.8 E53124.7	33.347705 °N 81.733597 °W	24.6-19.4 ft msl	349.6 ft msl	4" CS	S	CBA

SAMPLE DATE	01/25/95	09/19/95	01/10/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.5	217.5	217.1	216.0	ft msl
pH	4.9	4.9	5.2	5.0	pH
Sp. conductance	19	22	28	24	µS/cm
Water temperature	18.2	18.9	28.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	2	3	2	3	NTU
Volume purged	2.5	2.9	6.2	2.5	well volume
Sampling code					
Synchronous water level	217.2 (03/22/95)	216.8 (08/07/95)	217.0 (03/11/96)	217.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	<5.0	8.6	8.0	9.5	1	V	µg/L	GE	0
		Cyanide	<8.3	3.7	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	7.2	6.5	12	22	1	J	µg/L	GE	0
		Nickel, total recoverable	<6.7	<0.59	<2.3	28	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.5	2.1	2.2	1	JE	µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<0.050	1	J1	µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33			31	1	J	µg/L	GE	1
		Chloride	2,100			2,500	1	JE	µg/L	WA	0
		Chromium, total recoverable	<6.7	1.1		27	1		µg/L	GE	0
		Cobalt, total recoverable				0.92	1	JE	µg/L	WA	0
		Copper, total recoverable	4.1			21	1		µg/L	GE	0
		Fluoride	37			<16	1	V	µg/L	WA	0
		Manganese, total recoverable	<3.3			22	1	J	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.13	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,400	1	V	µg/L	GE	0
		Sodium, total recoverable	1,400			1,600	1	V	µg/L	GE	0
		Sulfate	1,200			320	1	JE	µg/L	WA	0
		Total phosphates (as P)	<83			7.0	1	JE	µg/L	WA	0
		Uranium, total recoverable				12	1	JE	µg/L	GE	1
		Zinc, total recoverable	<3.3	<5.0		8.6	1	JE	µg/L	WA	0
		Radionuclides									
		Gross alpha	6.2E-01			1.8E+00	1		pCi/L	GP	0
		Nonvolatile beta	8.5E-01			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			1.3E+00	1		pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 9B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104564.7 E54215.3	33.345482 °N 81.727201 °W	164.4-158.8 ft msl	309 ft msl	4" PVC	S	LL

SAMPLE DATE	01/19/95	08/22/95	01/15/96	08/20/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.5	222.3	221.7	221.3	ft msl
pH	6.3	6.7	6.2	6.6	pH
Sp. conductance	83	84	120	86	µS/cm
Water temperature	18.2	19.5	32.0	25.0	°C
Alkalinity as CaCO ₃	24	24	41	22	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	7.0	3.2	3.8	3.7	well volume
Sampling code					
Synchronous water level	221.9 (03/23/95)	221.9 (08/08/95)	222.1 (03/14/96)	()	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	35	46	46	42	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.7	1.2	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.5	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1	J1	µg/L	GE	0
●	■	Tetrachloroethylene	28	28	26	33	1	J1	µg/L	GE	2
●		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1	J1	µg/L	GE	0
●	■	Trichloroethylene	33	34	31	37	1	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	45			<25	1	V	µg/L	GE	0
		Chloride	3,700			3,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.82		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			1.7	1	JE	µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	2.5			2.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.26		0.058	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	690			1,200	1	V	µg/L	GE	0
		Sodium, total recoverable	3,200			2,500	1		µg/L	GE	0
		Sulfate	1,300			120	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	4.9		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.7E+00			1.8E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.3E+00			9.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 9C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104568.1 E54201.1	33.345466 °N 81.727245 °W	182.9-178.2 ft msl	309.9 ft msl	4" PVC	S	UL

SAMPLE DATE	01/19/95	08/22/95	01/15/96	08/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.9	222.7	222.1	221.2	ft msl
pH	5.7	5.3	5.2	5.3	pH
Sp. conductance	51	38	50	34	µS/cm
Water temperature	18.2	19.3	31.0	27.0	°C
Alkalinity as CaCO ₃	8	1	7	1	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	4.3	3.8	6.0	3.1	well volume
Sampling code					
Synchronous water level	222.2 (03/23/95)	222.3 (08/08/95)	222.4 (03/14/96)	()	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	28	21	24	24	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.9	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.7	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0				µg/L		
		1,1-Dichloroethane	<1.7	<2.0	<2.0				µg/L		
		1,1-Dichloroethylene	<1.7	<2.0	<2.0				µg/L		
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0				µg/L		
		Tetrachloroethylene	21	20	18				µg/L		
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0				µg/L		
		Trichloroethylene	22	20	19				µg/L		

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	37			<20	1		µg/L	GE	0
		Chloride	4,000			4,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.75		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			<2.4	1	V	µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	5.2			6.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	800			900	1	V	µg/L	GE	0
		Sodium, total recoverable	2,900			2,800	1	J	µg/L	GE	0
		Sulfate	1,300			150	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.2	4.5		8.5	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.0E+00			1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.8E+00			1.5E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL ASB 10CR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105655.4 E52969.7	33.345859 °N 81.732604 °W	181.7-171.7 ft msl	349.2 ft msl	4" PVC	S	LL

SAMPLE DATE	01/27/95	08/21/95	01/09/96	08/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.9	225.1	224.6	223.3	ft msl
pH	5.1	4.9	5.2	5.2	pH
Sp. conductance	43	57	52	48	µS/cm
Water temperature	18.6	19.6	27.0	25.0	°C
Alkalinity as CaCO ₃	1	1	5	1	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	3.2	3.5	4.8	4.1	well volume
Sampling code					
Synchronous water level	224.3 (03/22/95)	224.8 (08/07/95)	224.6 (03/11/96)	224.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	<5.0	15	9.9	0.098	1	JE	µg/L	GE	0
		Cyanide	<8.3	15	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<3.3	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<1.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	1.5	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<17	<10	<2.0	<1.0	20		µg/L	GE	0
		1,1-Dichloroethane	<17	<10	<2.0	<1.0	20		µg/L	GE	0
		1,1-Dichloroethylene	<17	<10	<2.0	<1.0	20		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<10	<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<50	<2.0	<1.0	20		µg/L	GE	0
	■	Tetrachloroethylene	54	30	27	18	20		µg/L	GE	2
		1,1,1-Trichloroethane	<17	<10	<2.0	<1.0	20		µg/L	GE	0
	■	Trichloroethylene	740	520	520	410	20		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
	■	Aluminum, total recoverable	22			<20	1		µg/L	GE	0
		Chloride	9,500			10,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable	<6.7			<0.95	1	V	µg/L	GE	0
		Fluoride	<50			<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3	3.6		<1.1	1	V	µg/L	GE	0
		Mercury, total recoverable	1.4	1.5		0.58	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,400	1	V	µg/L	GE	0
	■	Sodium, total recoverable	6,500			39,000	1	J	µg/L	GE	0
	■	Sulfate	1,300			12,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+00			1.0E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00			1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.2E+00			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MCB 5C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97315.1 E44862.8	33.314183 °N 81.737726 °W	161.2-156.2 ft msl	339.1 ft msl	4" PVC	V	UL

SAMPLE DATE	01/31/95	09/26/95	03/13/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	195.8	196.0	195.6	195.0	ft msl
pH	12.5	11.2	6.8	6.6	pH
Sp. conductance	2170	456	120	80	µS/cm
Water temperature	16.8	18.9	24.0	23.0	°C
Alkalinity as CaCO ₃	797	61	25	6	mg/L
Turbidity	264	132	19	4	NTU
Volume purged	0.35	1.4	3.3	2.4	well volume
Sampling code	X	X			
Synchronous water level	196.5 (03/22/95)	196.1 (08/07/95)	195.6 (03/12/96)	195.1 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	570	170	49	31	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	55	9.5	25	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<67	17	2.8	3.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	1.6	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<4.0	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<4.0	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<4.0	<2.0	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<4.0	<10	<10	5		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<20	<2.0	<10	5		µg/L	GE	0
■		Tetrachloroethylene	23	60	62	85	5		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<4.0	<2.0	<10	5		µg/L	GE	0
■		Trichloroethylene	57	86	92	88	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	1,200		270	130	1	J	µg/L	GE	2
		Chloride				2,900	1		µg/L	GE	0
		Chromium, total recoverable	<67	28	2.9	0.62	1	JE	µg/L	GE	0
		Cobalt, total recoverable			1.5	<0.56	1	V	µg/L	GE	0
		Copper, total recoverable			220	4.1	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<33		15	8.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	0.096	0.10	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen				4,200	4	V	µg/L	GE	0
■		Sodium, total recoverable			6,400	6,200	1		µg/L	GE	
		Sulfate				880	1	JE	µg/L	GE	0
		Total phosphates (as P)				160	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	73	150	370	6.7	1	J	µg/L	GE	0

Radionuclides

		Gross alpha	1.5E+01		2.4E+00	1.6E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	5.5E+01		4.5E+00	5.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	7.1E+00		3.2E+00	2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MCB 6C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97413.1 E45207.7	33.314963 °N 81.737009 °W	170.0-165.0 ft msl	332.1 ft msl	4" PVC	S	UL

SAMPLE DATE	02/06/95	09/06/95	02/20/96	08/16/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	196.3	196.7	196.6	195.7	ft msl
pH	6.0	6.1	5.6	6.0	pH
Sp. conductance	57	47	38	52	µS/cm
Water temperature	18.6	18.8	21.0	22.0	°C
Alkalinity as CaCO ₃	14	10	13	32	mg/L
Turbidity	3	5	4	5	NTU
Volume purged	4.1	7.8	5.5	3.2	well volume
Sampling code					
Synchronous water level	197.0 (03/22/95)	196.8 (08/07/95)	196.3 (03/12/96)	195.7 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
		Inorganics									
		Barium, total recoverable	25	26	38	43	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.9	2.6	3.2	1	JE	µg/L	WA	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	1.0	<2.0	1.0	1	JE	µg/L	WA	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.0	3.6	2.5	3.8	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
		Inorganics									
		■ Aluminum, total recoverable	27		110	110	1	JEV	µg/L	WA	2
		Chloride				2,700	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	0.82	1.3	2.0	1	JE	µg/L	WA	0
		Cobalt, total recoverable			1.6	0.68	1	JE	µg/L	GE	0
		Copper, total recoverable			<4.0	4.2	1		µg/L	GE	0
		Fluoride				<15	1	V	µg/L	WA	0
		Manganese, total recoverable	24		23	26	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	<0.20	<0.065	0.061	1	JE	µg/L	GE	0
		Nitrate as nitrogen				1,100	1		µg/L	GE	0
		Nitrate-nitrite as nitrogen				6,200	1	J	µg/L	GE	0
		■ Sodium, total recoverable			2,400	2,600	1		µg/L	WA	0
		Sulfate				16	1	JE	µg/L	WA	0
		Total phosphates (as P)				<13	1	V	µg/L	GE	0
		Uranium, total recoverable				11	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	5.2	<4.7				µg/L	GE	0
		Radionuclides									
		Gross alpha	2.9E-01		7.8E-01	2.1E+00	1	J1	pCi/L	TM	0
		Nonvolatile beta	3.0E+00		2.2E+00	3.3E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	2.0E-01		1.2E+00	4.5E-01	1	J1	pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MCB 7C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97139.9 E44870.6	33.313808 °N 81.737365 °W	160.7-155.7 ft msl	337.7 ft msl	4" PVC	S	UL

SAMPLE DATE	01/31/95	09/26/95	01/17/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	195.0	195.1	194.7	194.1	ft msl
pH	12.3	12.0	12.0	11.6	pH
Sp. conductance	2020	1920	2020	2000	µS/cm
Water temperature	16.6	18.7	27.0	23.0	°C
Alkalinity as CaCO ₃	556	409	521	508	mg/L
Turbidity	10	8	10	2	NTU
Volume purged	0.58	0.62	0.59	0.52	well volume
Sampling code	X	X	X	X	
Synchronous water level	195.5 (03/22/95)	195.2 (08/07/95)	194.7 (03/12/96)	194.0 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	90	100	92	76	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	Y	µg/L	GE	0
		Lead, total recoverable	8.6	3.3	3.4	1.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<67	1.9	<10	<2.1	1	V	µg/L	GE	0
		Selenium, total recoverable	3.8	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<4.0	<2.0	<2.0	1	Y	µg/L	GE	0
		1,1-Dichloroethane	<1.7	<4.0	<2.0	<2.0	1	Y	µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<4.0	<2.0	<2.0	1	Y	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<4.0	<2.0	<2.0	1	Y	µg/L	GE	0
		PCB 1016			<0.12				µg/L		
		PCB 1221			<0.12				µg/L		
		PCB 1232			<0.12				µg/L		
		PCB 1242			<0.12				µg/L		
		PCB 1248			<0.12				µg/L		
		PCB 1254			<0.12				µg/L		
		PCB 1260			<0.12				µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<20	<2.0	<2.0	1	Y	µg/L	GE	0
■		Tetrachloroethylene	6.0	4.4	7.2	6.4	1	Y	µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<4.0	<2.0	<2.0	1	Y	µg/L	GE	0
■		Trichloroethylene	30	32	33	37	1	Y	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	5,100		4,300	4,100	1		µg/L	GE	2
		Chloride				2,100	1	Y	µg/L	GE	0
		Chromium, total recoverable	<67	4.6	3.7	2.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable			<0.63	0.60	1	JE	µg/L	GE	0
		Copper, total recoverable			2.0	1.2	1	JE	µg/L	GE	0
		Fluoride				310	1	JY	µg/L	GE	0
		Manganese, total recoverable	<33	2.6	0.70	<0.48	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				180	1	Y	µg/L	GE	0
■		Nitrate-nitrite as nitrogen				8,600	1	V	µg/L	GE	0
		Sodium, total recoverable			11,000	2,800	1	VY	µg/L	GE	0
		Sulfate				<50	1	Y	µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				<5.0	1		µg/L	GE	0
		Zinc, total recoverable	29	14	8.9	<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.7E+00		5.7E-01	6.0E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.6E+01		1.0E+01	7.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.5E+00		0.0E+00	2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 9A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102236.7 E48242.5	33.330582 °N 81.738401 °W	144.2-139.2 ft msl	359.1 ft msl	4" PVC	S	LL

SAMPLE DATE	01/16/95	09/08/95	01/17/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.9	211.6	208.9	208.5	ft msl
pH	5.8	6.0		6.4	pH
Sp. conductance	39	36		40	µS/cm
Water temperature	18.8	19.4		26.0	°C
Alkalinity as CaCO ₃	9	2		5	mg/L
Turbidity	1	2		7	NTU
Volume purged	2.6	3.0		8.3	well volume
Sampling code			P		
Synchronous water level	210.4 (03/23/95)	217.7 (08/08/95)	209.4 (03/13/96)	213.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	4.5	4.6		4.4	1	V	µg/L	GE	0
		Cyanide	<8.3	<20		<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<11		13	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.2		1.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<17	<50		<20	10		µg/L	GE	0
		1,1-Dichloroethane	<17	<50		<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<17	<50		<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	17	<50		<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<250		<20	10		µg/L	GE	0
	■	Tetrachloroethylene	1,300	1,700		93	10		µg/L	GE	2
		1,1,1-Trichloroethane	<17	<50		<20	10		µg/L	GE	0
	■	Trichloroethylene	1,100	1,400		160	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
	■	Aluminum, total recoverable	<33			120	1		µg/L	GE	2
		Chloride	1,600			2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		2.7	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.71	1	V	µg/L	GE	0
		Copper, total recoverable		<4.0		<3.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.2			5.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	320			490	1		µg/L	GE	0
		Sodium, total recoverable	1,700			1,500	1		µg/L	GE	0
		Sulfate	<1,700			340	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<6.1	1	V	µg/L	GE	0
	■	Zinc, total recoverable	2,500	3,000		6,300	2		µg/L	GE	2
Radionuclides											
		Gross alpha	7.7E-01			1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.2E+00			1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 9C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102245.6 E48273.0	33.330651 °N 81.738338 °W	241.6-221.6 ft msl	359.6 ft msl	4" PVC	S	M

SAMPLE DATE 01/16/95 08/22/95 01/17/96 07/15/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.9	231.5	231.0	230.8	ft msl
pH	3.8	3.8	4.0	5.0	pH
Sp. conductance	159	153	140	150	µS/cm
Water temperature	19.5	20.5	32.0	26.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	2	3	1	1	NTU
Volume purged	4.9	8.6	5.4	6.2	well volume
Sampling code					
Synchronous water level	230.9 (03/23/95)	231.0 (08/08/95)	230.9 (03/13/96)	230.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	40	45	40	44	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	6.0	<10	9.4	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	14	14	13	15	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<420	<1,000	<1,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethane	<420	<1,000	<1,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethylene	<420	<1,000	<1,000	<2,000	1000		µg/L	GE	0
		trans-1,2-Dichloroethylene	<420	<1,000	<1,000	<2,000	1000		µg/L	GE	0
		PCB 1016	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		PCB 1221	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		PCB 1232	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		PCB 1242	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		PCB 1248	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		PCB 1254	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		PCB 1260	<0.83	<13	<0.13	<6.3	50	J4	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<420	<5,000	<1,000	<2,000	1000		µg/L	GE	0
■		Tetrachloroethylene	15,000	23,000	12,000	17,000	1000		µg/L	GE	2
		1,1,1-Trichloroethane	<420	<1,000	<1,000	<2,000	1000		µg/L	GE	0
■		Trichloroethylene	7,600	9,100	4,100	4,400	1000		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	2,500			2,500	1		µg/L	GE	2
		Chloride	3,300			2,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.86		1.4	1	JE	µg/L	GE	0
■		Cobalt, total recoverable				5.8	1	V	µg/L	GE	0
		Copper, total recoverable		15		16	1	V	µg/L	GE	0
		Fluoride				160	1		µg/L	GE	0
■		Manganese, total recoverable	130			150	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	<0.20		0.019	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	17,000			13,000	20		µg/L	GE	2
		Sodium, total recoverable	7,500			4,600	1		µg/L	GE	0
		Sulfate	<1,700			<1,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	25	28		25	1		µg/L	GE	0

Radionuclides

■		Gross alpha	7.1E+01			1.0E+02	1		pCi/L	GP	2
		Nonvolatile beta	3.2E+01			4.5E+01	1		pCi/L	GP	1
■		Radium, total alpha-emitting	5.2E+01			4.4E+01	1		pCi/L	GP	2

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 10A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102451.8 E47954.4	33.330587 °N 81.739578 °W	125.2-120.2 ft msl	357.2 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/20/95	08/22/95	01/15/96	08/13/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.1	217.6	209.8	210.9	ft msl
pH	5.5	5.1	5.2	5.2	pH
Sp. conductance	23	20	28	20	µS/cm
Water temperature	18.2	19.8	32.0	24.0	°C
Alkalinity as CaCO ₃	2	1	4	1	mg/L
Turbidity	0	1	0	1	NTU
Volume purged	1.9	2.6	4.2	3.3	well volume
Sampling code					
Synchronous water level	211.8 (03/23/95)	217.3 (08/07/95)	210.1 (03/13/96)	212.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.4	6.2	5.1	6.0	1		µg/L	WA	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.6	1.2	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	2.7	1	JE	µg/L	WA	0
		Selenium, total recoverable	<3.3	<5.0	<2.0	2.3	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	6.6	8.7	8.1	8.8	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	30	44	44	62	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	2,500			2,500	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0		2.2	1	JE	µg/L	WA	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable		<1.7		2.7	1	JE	µg/L	GE	0
		Fluoride				<20	1	V	µg/L	WA	0
		Manganese, total recoverable	<3.3			3.5	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	250			550	1	V	µg/L	GE	0
		Sodium, total recoverable	1,500			2,000	1		µg/L	GE	0
		Sulfate	1,400			560	1		µg/L	WA	0
		Total phosphates (as P)	<83			16	1	JE	µg/L	WA	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	20	16		17	1	JE	µg/L	WA	0
Radionuclides											
		Gross alpha	1.3E+00			2.0E+00	1	J1	pCi/L	TM	0
		Nonvolatile beta	1.6E+00			3.5E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	5.0E-01			4.0E-01	1	J1	pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 10B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102488.2 E47943.1	33.330649 °N 81.739679 °W	157.4-152.4 ft msl	357.6 ft msl	4" PVC	S	LL

SAMPLE DATE	01/20/95	08/18/95	01/26/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.8	219.8	212.6	212.5	ft msl
pH	5.1	4.6	4.6	4.8	pH
Sp. conductance	39	36	44	32	µS/cm
Water temperature	18.6	20.5	22.0	27.0	°C
Alkalinity as CaCO ₃	1	1	3	0	mg/L
Turbidity	2	2	3	3	NTU
Volume purged	2.3	2.9	1.3	2.5	well volume
Sampling code			X		
Synchronous water level	214.4 (03/23/95)	219.5 (08/07/95)	213.4 (03/13/96)	213.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	12	11	13	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<2.2	7.4	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	4.7	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.6	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	2.6	1.6	1	JE	µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	4.3	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	23	<2.0	1		µg/L	GE	0
Trichloroethylene	2.7	3.3	4.2	3.3	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	24			38	1		µg/L	GE	1
		Chloride	2,500			1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.7		2.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable		<4.2		4.9	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	5.6			5.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.071		0.025	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			160	1	V	µg/L	GE	0
		Sodium, total recoverable	2,400			2,300	1		µg/L	GE	0
		Sulfate	8,000			7,800	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<9.7	1	V	µg/L	GE	0
		Zinc, total recoverable	21	17		17	1		µg/L	GE	0

Radionuclides

Gross alpha	1.1E+00		1.5E-02	1	UI	pCi/L	GP	0
Nonvolatile beta	8.4E-02		8.1E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	2.0E-01		0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 11C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102658.6 E48579.4	33.332065 °N 81.738335 °W	182.9-177.9 ft msl	365.5 ft msl	4" PVC	S	UL

SAMPLE DATE	01/17/95	08/23/95	01/15/96	08/01/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.7	226.5	220.2	220.7	ft msl
pH	4.4	4.4	4.6	4.6	pH
Sp. conductance	128	151	180	140	µS/cm
Water temperature	18.2	19.0	33.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1	0	0	1	NTU
Volume purged	4.0	3.5	7.0	6.4	well volume
Sampling code					
Synchronous water level	221.2 (03/23/95)	226.2 (08/07/95)	220.8 (03/13/96)	221.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	39	36	41	40	1		µg/L	WA	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.6	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	3.1	1	JE	µg/L	WA	0
		Selenium, total recoverable	<3.3	<5.0	<5.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1,700	<5,000	<2,000	<5.0	1		µg/L	WA	0
		1,1-Dichloroethane	<1,700	<5,000	<2,000	<5.0	1		µg/L	WA	0
		1,1-Dichloroethylene	<1,700	<5,000	<2,000	160	25		µg/L	GE	2
		trans-1,2-Dichloroethylene	<1,700	<5,000	<2,000	<50	25		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1,700	<25,000	<2,000	<5.0	1		µg/L	WA	0
		Tetrachloroethylene	<1,700	<5,000	<2,000	53	25		µg/L	GE	2
		1,1,1-Trichloroethane	<1,700	<5,000	<2,000	<5.0	1		µg/L	WA	0
		Trichloroethylene	93,000	73,000	91,000	110,000	1000		µg/L	WA	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	120			130	1	JEV	µg/L	WA	2
		Chloride	2,400			3,700	1		µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0		7.4	1		µg/L	WA	0
		Cobalt, total recoverable				2.9	1	JEV	µg/L	WA	0
		Copper, total recoverable		10		1.9	1	JE	µg/L	WA	0
		Fluoride				<37	1	V	µg/L	WA	0
		Manganese, total recoverable	21			24	1	J3	µg/L	WA	0
		Mercury, total recoverable	0.36	0.41		1.7	1	J	µg/L	GE	1
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	14,000			17,000	50		µg/L	WA	2
		Sodium, total recoverable	7,400			8,100	1		µg/L	WA	
		Sulfate	<1,700			260	1	JE	µg/L	WA	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<12	1	V	µg/L	GE	0
		Zinc, total recoverable	19	20		22	1	JE	µg/L	WA	0

Radionuclides

Gross alpha	1.3E+01	6.4E+00	1	pCi/L	TM	0
Nonvolatile beta	7.4E+00	1.1E+01	1	pCi/L	TM	0
Radium, total alpha-emitting	1.1E+01	5.0E+00	1	pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 11F

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102629.3 E48577.0	33.331996 °N 81.738284 °W	243.1-223.1 ft msl	365.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/17/95	08/23/95	01/15/96	08/01/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.1	230.1	231.1	231.4	ft msl
pH	5.1	4.5	4.8	5.4	pH
Sp. conductance	21	26	30	22	µS/cm
Water temperature	19.2	19.7	33.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	2	2	1	6	NTU
Volume purged	8.4	14	17	10	well volume
Sampling code					
Synchronous water level	231.4 (03/23/95)	231.5 (08/07/95)	231.4 (03/13/96)	231.0 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.4	4.0	2.5	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<1.6	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.8	2.4	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<2.0	<10	<2.3	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.4	<4.2	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<3.3	<2.0	<2.0	<50	25		µg/L	GE	0
		1,1-Dichloroethane	<3.3	<2.0	<2.0	<50	25		µg/L	GE	0
		1,1-Dichloroethylene	<3.3	<2.0	<2.0	<50	25		µg/L	GE	0
		trans-1,2-Dichloroethylene	<3.3	<2.0	<2.0	<50	25		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<3.3	<10	<2.0	<50	25		µg/L	GE	0
■		Tetrachloroethylene	11	55	35	100	25		µg/L	GE	2
		1,1,1-Trichloroethane	<3.3	<2.0	<2.0	<50	25		µg/L	GE	0
■		Trichloroethylene	37	85	71	200	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	51			57	1		µg/L	GE	2
		Chloride	2,600			3,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.7		2.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.98	1	V	µg/L	GE	0
		Copper, total recoverable		6.3		<2.3	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3	5.4		12	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1	J	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	170			820	1	V	µg/L	GE	0
		Sodium, total recoverable	2,700			2,300	1	V	µg/L	GE	0
		Sulfate	1,100			840	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<21	1	V	µg/L	GE	0
		Zinc, total recoverable	3.4	24		<9.3	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	2.0E+00			1.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.1E+00			2.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.1E+00			1.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 12A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102283.2 E47138.2	33.328881 °N 81.741400 °W	121.5-116.5 ft msl	348.9 ft msl	4" PVC	S	LL

SAMPLE DATE	01/17/95	08/23/95	01/15/96	07/29/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	213.0	214.4	208.3	207.6	ft msl
pH	4.9	4.7	5.2	5.0	pH
Sp. conductance	17	21	24	30	µS/cm
Water temperature	19.1	19.2	33.0	24.0	°C
Alkalinity as CaCO ₃	1	0	1	0	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	2.8	2.8	3.0	6.7	well volume
Sampling code					
Synchronous water level	211.6 (03/23/95)	214.1 (08/07/95)	208.7 (03/13/96)	209.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.0	4.2	4.3	4.6	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.5	2.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<6.1	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<42	<20	<10	<50	25		µg/L	GE	0
		1,1-Dichloroethane	<42	<20	<10	<50	25		µg/L	GE	0
		1,1-Dichloroethylene	<42	<20	<10	<50	25		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<20	<10	<50	25		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<100	<10	<50	25		µg/L	GE	0
		Tetrachloroethylene	<42	<20	<10	<50	25		µg/L	GE	0
		1,1,1-Trichloroethane	<42	<20	<10	<50	25		µg/L	GE	0
■		Trichloroethylene	1,000	860	1,100	930	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			35	1	J	µg/L	GE	1
		Chloride	1,600			2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.7	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.5	1	JE	µg/L	GE	0
		Copper, total recoverable		<9.2		4.0	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.8			3.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	370			1,100	1	V	µg/L	GE	0
		Sodium, total recoverable	1,500			1,500	1	JV3	µg/L	GE	0
		Sulfate	<1,700			640	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	20	20		17	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+00			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+00			8.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.1E+00			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 12B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102251.8 E47139.6	33.328814 °N 81.741335 °W	162.2-157.2 ft msl	349.5 ft msl	4" PVC	S	UL

SAMPLE DATE	01/17/95	08/23/95	01/16/96	07/29/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.8	220.7	218.5	218.0	ft msl
pH			4.6	4.8	pH
Sp. conductance			170	160	µS/cm
Water temperature			32.0	24.0	°C
Alkalinity as CaCO ₃			0	0	mg/L
Turbidity			3	5	NTU
Volume purged	0.024		3.8	4.9	well volume
Sampling code	P				
Synchronous water level	215.4 (03/23/95)	220.5 (08/07/95)	218.7 (03/13/96)	218.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable			22	20	1	V	µg/L	GE	0	
		Cyanide			<10	<10	1		µg/L	GE	0	
		Lead, total recoverable			1.6	2.8	1	JE	µg/L	GE	0	
		Nickel, total recoverable			<1.3	<10	1		µg/L	GE	0	
		Selenium, total recoverable			<5.0	<5.0	1		µg/L	GE	0	

Organics

		Chlorobenzene			<1,000	<1,000	500		µg/L	GE	0
		1,1-Dichloroethane			<1,000	<1,000	500		µg/L	GE	0
		1,1-Dichloroethylene			<1,000	<1,000	500		µg/L	GE	0
		trans-1,2-Dichloroethylene			<1,000	<1,000	500		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane			<1,000	<1,000	500		µg/L	GE	0
■		Tetrachloroethylene			14,000	14,000	500		µg/L	GE	2
		1,1,1-Trichloroethane			<1,000	<1,000	500		µg/L	GE	0
■		Trichloroethylene			22,000	17,000	500		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable				95	1	J	µg/L	GE	2	
		Chloride				3,500	1		µg/L	GE	0	
		Chromium, total recoverable				0.79	1	JE	µg/L	GE	0	
		Cobalt, total recoverable				1.4	1	JE	µg/L	GE	0	
		Copper, total recoverable				8.6	1		µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable				7.5	1	V	µg/L	GE	0	
		Mercury, total recoverable				0.41	1		µg/L	GE	0	
		Nitrate as nitrogen										
■		Nitrate-nitrite as nitrogen				13,000	10	V	µg/L	GE	2	
■		Sodium, total recoverable				14,000	1	JV	µg/L	GE		
		Sulfate				250	1	JE	µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable				22	1		µg/L	GE	0	

Radionuclides

		Gross alpha				6.1E+00	1		pCi/L	GP	0
		Nonvolatile beta				7.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting				3.0E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 12TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102266.7 E47127.3	33.328827 °N 81.741396 °W	(102.8)-(112.8) ft msl	348.9 ft msl	4" Steel	S	CBA

SAMPLE DATE	02/03/95	08/21/95	01/17/96	07/24/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	194.4	193.7	192.8	192.1	ft msl
pH	5.7	6.0	6.0	5.2	pH
Sp. conductance	35	37	34	32	µS/cm
Water temperature	19.4	19.9	31.0	26.0	°C
Alkalinity as CaCO ₃	10	10	11	9	mg/L
Turbidity	1	0	0	19	NTU
Volume purged	2.1	2.2	2.2	2.1	well volume
Sampling code					
Synchronous water level	194.1 (03/23/95)	193.0 (08/07/95)	193.2 (03/13/96)	193.2 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.7	10	11	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<15	3.5	5.7	1	JE	µg/L	WA	0
		Nickel, total recoverable	<6.7	<10	<10	1.3	1	JE	µg/L	GE	0
		Selenium, total recoverable	3.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	29			<56	1	V	µg/L	GE	0
		Chloride	1,700			2,300	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	0.64		1.5	1	JE	µg/L	WA	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable		5.3		17	1	V	µg/L	WA	0
		Fluoride				<14	1	V	µg/L	WA	0
		Manganese, total recoverable	<3.3			2.1	1	JE	µg/L	WA	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			370	1	V	µg/L	GE	0
		Sodium, total recoverable	1,200			1,300	1		µg/L	WA	0
		Sulfate	<1,700			880	1		µg/L	WA	0
		Total phosphates (as P)	<83			10	1	JE	µg/L	WA	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.5	5.8		19	1	JE	µg/L	WA	0
Radionuclides											
		Gross alpha	1.7E+00			9.0E+00	1		pCi/L	TM	1
		Nonvolatile beta	1.5E+00			4.9E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	4.0E-01			1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 13B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101735.7 E47523.5	33.328300 °N 81.739320 °W	177.5-172.5 ft msl	347.1 ft msl	4" PVC	S	UL

SAMPLE DATE

08/08/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation				224.5	ft msl
pH				11.4	pH
Sp. conductance				4000	µS/cm
Water temperature				26.0	°C
Alkalinity as CaCO ₃				785	mg/L
Turbidity				4	NTU
Volume purged				0.53	well volume
Sampling code				X	
Synchronous water level				187.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene
1,1-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
Trichloroethylene

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 14A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101629.5 E48521.9	33.329696 °N 81.736484 °W	164.6-144.6 ft msl	348.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/18/95	09/08/95	01/17/96	07/18/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.2	218.2	215.4	215.6	ft msl
pH	5.0	4.4	4.6	5.8	pH
Sp. conductance	162	184	180	200	µS/cm
Water temperature	18.0	19.1	32.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	8	1	1	1	NTU
Volume purged	2.7	3.3	3.9	4.0	well volume
Sampling code					
Synchronous water level	216.8 (03/23/95)	220.8 (08/07/95)	216.1 (03/13/96)	217.2 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	53	49	50	46	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<6.9	2.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.8	1.2	1.4	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.6	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<170	<500	<200	<500	250		µg/L	GE	0
		1,1-Dichloroethane	<170	<500	<200	<500	250		µg/L	GE	0
		1,1-Dichloroethylene	<170	<500	<200	<500	250		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<500	<200	<500	250		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<2,500	<200	<500	250		µg/L	GE	0
	■	Tetrachloroethylene	2,400	4,300	2,300	2,400	250		µg/L	GE	2
		1,1,1-Trichloroethane	<170	<500	<200	<500	250		µg/L	GE	0
	■	Trichloroethylene	2,200	4,000	2,600	3,200	250		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	71			<20	1		µg/L	GE	0
		Chloride	4,600			3,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.70	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.98	1	V	µg/L	GE	0
		Copper, total recoverable		2.2		<3.9	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	14			13	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.10		0.12	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	18,000			18,000	50	V	µg/L	GE	2
	■	Sodium, total recoverable	15,000			17,000	1		µg/L	GE	
		Sulfate	<1,700			120	1	JE	µg/L	GE	0
		Total phosphates (as P)	100			60	1		µg/L	GE	
		Uranium, total recoverable	<33			14	1	JE	µg/L	GE	1
		Zinc, total recoverable	4.0	<7.1		3.2	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+01			1.2E+01	1		pCi/L	GP	1
		Nonvolatile beta	8.9E+00			8.9E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.4E+00			2.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 15A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102983.5 E48827.0	33.333187 °N 81.738315 °W	167.8-162.8 ft msl	367.7 ft msl	3.75" PVC	S	UL

SAMPLE DATE	01/31/95	01/18/96	08/21/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.1		220.7	220.7	ft msl
pH	6.2			6.4	pH
Sp. conductance	29			64	µS/cm
Water temperature	17.3			21.0	°C
Alkalinity as CaCO ₃	8			15	mg/L
Turbidity	1			14	NTU
Volume purged	4.1			1.6	well volume
Sampling code			P		
Synchronous water level	221.7 (03/23/95)		221.3 (03/12/96)	221.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	8.2			18	1	V	µg/L	GE	0
		Cyanide	<8.3			<10	1		µg/L	GE	0
		Lead, total recoverable	2.1			9.1	1		µg/L	GE	0
		Nickel, total recoverable	<5.4			<2.4	1	V	µg/L	GE	0
		Selenium, total recoverable	<2.0			<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<5.0			<200	100		µg/L	GE	0
		1,1-Dichloroethane	<5.0			<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<5.0			<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<5.0			<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<5.0			<200	100		µg/L	GE	0
■		Tetrachloroethylene	770			490	100		µg/L	GE	2
		1,1,1-Trichloroethane	<5.0			<200	100		µg/L	GE	0
■		Trichloroethylene	8,300			7,100	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<30	1	V	µg/L	GE	0
		Chloride	2,600			2,700	1		µg/L	GE	0
		Chromium, total recoverable	1.5			4.6	1	V	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				4.4	1		µg/L	GE	0
		Fluoride				41	1	JE	µg/L	GE	0
		Manganese, total recoverable	2.5			15	1		µg/L	GE	0
		Mercury, total recoverable	<0.33			0.056	1	JE	µg/L	GE	0
		Nitrate as nitrogen	650						µg/L		
		Nitrate-nitrite as nitrogen	630			820	1	V	µg/L	GE	0
		Sodium, total recoverable	2,000			1,900	1	V	µg/L	GE	0
		Sulfate	330			350	1	JE	µg/L	GE	0
		Total phosphates (as P)	6.7			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	12			58	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+00			8.1E-01	1		pCi/L	GP	0
		Nonvolatile beta	4.0E-01			1.1E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 15AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102953.2 E48818.5	33.333106 °N 81.738279 °W	147.1-142.4 ft msl	369.2 ft msl	4" PVC	S	LL

SAMPLE DATE	01/04/95	09/08/95	01/18/96	07/18/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.8	216.9	213.6	212.8	ft msl
pH	6.3	6.1	6.0	5.8	pH
Sp. conductance	27	39	34	46	µS/cm
Water temperature	17.5	18.9	33.0	27.0	°C
Alkalinity as CaCO ₃	6	20	11	11	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	3.2	3.9	4.1	4.8	well volume
Sampling code					
Synchronous water level	215.0 (03/23/95)	219.8 (08/07/95)	214.1 (03/12/96)	214.5 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	9.5	14	12	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.6	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<10	<2.0	<40	20		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<10	<2.0	<40	20		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	<10	<2.0	<40	20		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	<10	<2.0	<40	20		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.3	<50	<2.0	<40	20		µg/L	GE	0
		Tetrachloroethylene	6.8	19	17	<40	20		µg/L	GE	0
		1,1,1-Trichloroethane	<8.3	<10	<2.0	<40	20		µg/L	GE	0
		■ Trichloroethylene	220	360	320	220	20		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.2		1.7	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.1	1	V	µg/L	GE	0
		Copper, total recoverable				<3.2	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			0.96	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.30		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				450	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	110			1,800	1		µg/L	GE	0
		Sodium, total recoverable				390	1	JE	µg/L	GE	0
		Sulfate	<1,700			150	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable	<3.3	<5.7		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.6E-01			1.6E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.4E-01			1.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 15C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103002.1 E48834.0	33.333240 °N 81.738333 °W	260.6-240.6 ft msl	366.7 ft msl	3.75" PVC B		M

SAMPLE DATE	01/31/95	09/26/95	02/21/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	244.6	245.6	236.0	243.1	ft msl
pH	5.8	5.6	6.2	5.6	pH
Sp. conductance	34	55	58	44	µS/cm
Water temperature	14.9	18.9	19.0	22.0	°C
Alkalinity as CaCO ₃	7	2	5	9	mg/L
Turbidity	66	23	956	38	NTU
Volume purged	1.3	0.70		1.4	well volume
Sampling code	I	X	L	I	
Synchronous water level	245.1 (03/23/95)	242.5 (08/07/95)	246.3 (03/12/96)	242.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.4	23	220	4.8	1		µg/L	GE	0
		Cyanide	<8.3	6.4	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	8.0	8.2	87	5.9	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	6.7	41	1.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	2.9	<5.0	1.7	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<420	<200	<20	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<420	<200	<20	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<420	<200	<20	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<420	<200	<20	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<420	<1,000	<20	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	2,900	2,100	120	34	1		µg/L	GE	2
		1,1,1-Trichloroethane	<420	<200	<20	<2.0	1		µg/L	GE	0
■		Trichloroethylene	5,200	4,000	540	530	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	140			130	1		µg/L	GE	2
		Chloride				2,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	11		3.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.33	1	JE	µg/L	GE	0
		Copper, total recoverable		13		<4.8	1	V	µg/L	GE	0
		Fluoride				<100	1	J	µg/L	GE	0
		Manganese, total recoverable	7.9			5.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.018		0.33	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	510			3,100	2	V	µg/L	GE	0
		Sodium, total recoverable	2,600			4,200	1	J	µg/L	GE	0
		Sulfate				<330	1	V	µg/L	GE	0
		Total phosphates (as P)	160			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	24	22		15	1		µg/L	GE	0
Radionuclides											
		Gross alpha				3.7E+00	1		pCi/L	GP	0
		Nonvolatile beta				5.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting				8.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 15D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102971.2 E48827.5	33.333161 °N 81.738290 °W	241.4-221.9 ft msl	368.5 ft msl	4" PVC	S	M

SAMPLE DATE	01/31/95	09/26/95	01/19/96	08/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.1	234.4	233.7	233.5	ft msl
pH	6.2	4.8	4.2	6.6	pH
Sp. conductance	24	28	120	80	µS/cm
Water temperature	17.3	21.2	28.0	21.0	°C
Alkalinity as CaCO ₃	3	1	1	23	mg/L
Turbidity	6	2	2	20	NTU
Volume purged	0.55	0.37	0.52	0.66	well volume
Sampling code	X	X	X	X	
Synchronous water level	233.2 (03/23/95)	233.6 (08/07/95)	233.8 (03/12/96)	233.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.4	2.1	10	1		µg/L	GE	0
		Cyanide	<8.3	110	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	25	6.2	6.1	5.2	1	J	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.9	2.4	1.9	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.1	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<840	<200	<200	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<840	<200	<200	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<840	<200	<200	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<840	<200	<200	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<840	<1,000	<200	<200	100		µg/L	GE	0
	■	Tetrachloroethylene	1,300	650	620	260	100		µg/L	GE	2
		1,1,1-Trichloroethane	<840	<200	<200	<200	100		µg/L	GE	0
	■	Trichloroethylene	12,000	5,000	4,900	4,000	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	130			51	1	J	µg/L	GE	2
		Chloride				3,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.92		1.4	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.67	1	JE	µg/L	GE	0
		Copper, total recoverable				4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.4			6.4	1	J	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.14	1	JE	µg/L	GE	0
		Nitrate as nitrogen				800	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	710			3,100	1		µg/L	GE	0
		Sodium, total recoverable				380	1	JE	µg/L	GE	0
		Sulfate	<1,700			<50	1	J	µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				4.3	1	JE	µg/L	GE	0
		Zinc, total recoverable	21	11							
Radionuclides											
		Gross alpha	1.2E+00			3.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	6.5E-01			4.3E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 16A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103693.9 E48965.1	33.334983 °N 81.739334 °W	166.8-161.8 ft msl	367.5 ft msl	3.75" PVC S		UL

SAMPLE DATE	01/30/95	09/05/95	01/31/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	226.2	226.0	220.0	219.7	ft msl
pH	6.1	5.6	4.2	5.2	pH
Sp. conductance	34	39	28	28	µS/cm
Water temperature	18.3	20.3	21.0	26.0	°C
Alkalinity as CaCO ₃	7	9	2	1	mg/L
Turbidity	2	3	2	2	NTU
Volume purged	3.3	3.1	2.7	3.7	well volume
Sampling code					
Synchronous water level	220.6 (03/23/95)	227.0 (08/07/95)	222.8 (03/12/96)	222.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.4	13	4.7	4.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.7	5.1	6.2	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	4.2	5.7	<3.5	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<84	<200	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<84	<200	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<84	<200	<500	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<84	<200	<500	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<84	<1,000	<500	<200	100		µg/L	GE	0
■		Tetrachloroethylene	1,000	1,200	970	1,600	100		µg/L	GE	2
		1,1,1-Trichloroethane	<84	<200	<500	<200	100		µg/L	GE	0
■		Trichloroethylene	13,000	12,000	8,600	13,000	200		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<23	1	V	µg/L	GE	0
		Chloride				2,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.60		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				46	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.8			<3.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.22	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	940			1,300	1	JV	µg/L	GE	0
		Sodium, total recoverable				2,000	1	V	µg/L	GE	0
		Sulfate	<1,700			190	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	15	24		31	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	6.6E-01			5.9E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.7E-02			1.9E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 16C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103714.1 E48970.5	33.335037 °N 81.739359 °W	244.8-224.8 ft msl	367.6 ft msl	3.75" PVC	B	M

SAMPLE DATE	02/01/95	09/21/95	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.6	232.5		231.6	ft msl
pH	7.2	6.9		6.4	pH
Sp. conductance	53	68		56	µS/cm
Water temperature	17.0	21.5		24.0	°C
Alkalinity as CaCO ₃	15	18		32	mg/L
Turbidity	203	136		19	NTU
Volume purged	2.3	6.8		1.3	well volume
Sampling code				X	
Synchronous water level	231.7 (03/23/95)	232.5 (08/07/95)		231.2 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	25	40		29	1	V	µg/L	GE	0
		Cyanide	<8.3	3.1		<10	1		µg/L	GE	0
		Lead, total recoverable	5.4	8.5		77	1		µg/L	GE	2
		Nickel, total recoverable	<6.7	3.8		24	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0		<2.1	1	V	µg/L	GE	0
Organics											
		Chlorobenzene	<42	<500		<40	20		µg/L	GE	0
		1,1-Dichloroethane	<42	<500		<40	20		µg/L	GE	0
		1,1-Dichloroethylene	<42	<500		<40	20		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<500		<40	20		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<2,500		<40	20		µg/L	GE	0
		Tetrachloroethylene	3,000	7,000		2,400	100		µg/L	GE	2
		1,1,1-Trichloroethane	<42	<500		<40	20		µg/L	GE	0
		Trichloroethylene	6,000	11,000		4,000	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	510			150	1	J	µg/L	GE	2
		Chloride				2,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.7		27	1		µg/L	GE	0
		Cobalt, total recoverable				1.7	1	JE	µg/L	GE	0
		Copper, total recoverable				77	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	20			11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	310			960	1	V	µg/L	GE	0
		Sodium, total recoverable				2,500	1		µg/L	GE	0
		Sulfate	1,400						µg/L		
		Total phosphates (as P)				90	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	92	110		59	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.3E+00			3.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.1E+01			4.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.8E+00			5.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 17B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101994.6 E46237.7	33.326772 °N 81.743209 °W	190.8-185.8 ft msl	359.2 ft msl	3.75" PVC	S	M

SAMPLE DATE	01/16/95	08/23/95	01/30/96	07/18/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	226.2	226.6	226.7	226.1	ft msl
pH	4.8	5.0	5.2	6.0	pH
Sp. conductance	117	115	100	100	µS/cm
Water temperature	18.6	18.7	14.0	25.0	°C
Alkalinity as CaCO ₃	1	1	7	2	mg/L
Turbidity	1	1	0	1	NTU
Volume purged	4.3	3.8	7.3	6.4	well volume
Sampling code					
Synchronous water level	226.4 (03/22/95)	226.5 (08/07/95)	226.6 (03/12/96)	225.7 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	25	33	37	35	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.9	3.3	3.0	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	1.9	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.8	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<170	<200	<20	<1,000	500		µg/L	GE	0
		1,1-Dichloroethane	<170	<200	<20	<1,000	500		µg/L	GE	0
		1,1-Dichloroethylene	<170	<200	18	<1,000	500		µg/L	GE	0
		trans-1,2-Dichloroethylene	<100	<200	<20	<1,000	500		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<1,000	<20	<1,000	500		µg/L	GE	0
■		Tetrachloroethylene	1,100	1,400	970	750	500	JE	µg/L	GE	2
		1,1,1-Trichloroethane	<170	<200	<20	<1,000	500		µg/L	GE	0
■		Trichloroethylene	7,100	6,500	6,600	5,100	500		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	130			72	1		µg/L	GE	2
		Chloride	2,700			3,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<1.5	1	V	µg/L	GE	0
		Copper, total recoverable		<4.8		<6.4	1	V	µg/L	GE	0
		Fluoride				43	1	JE	µg/L	GE	0
		Manganese, total recoverable	9.5			9.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.18		0.22	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	11,000			10,000	10	V	µg/L	GE	2
■		Sodium, total recoverable	13,000			12,000	1		µg/L	GE	0
		Sulfate	<1,700			<1,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			100	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	4.4	7.8		6.3	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.0E+01			1.0E+01	1		pCi/L	GP	1
		Nonvolatile beta	3.9E+00			6.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+01			5.0E+00	1	V	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 17BB

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102009.5 E46220.8	33.326778 °N 81.743283 °W	137.3-132.6 ft msl	359 ft msl	4" PVC	S	LL

SAMPLE DATE	01/16/95	08/23/95	01/19/96	08/13/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	214.7	215.1	213.2	213.1	ft msl
pH	5.0	5.6	5.2	5.2	pH
Sp. conductance	111	105	120	100	µS/cm
Water temperature	18.8	19.2	32.0	24.0	°C
Alkalinity as CaCO ₃	1	3	2	1	mg/L
Turbidity	3	2	2	2	NTU
Volume purged	3.3	4.0	3.9	3.1	well volume
Sampling code					
Synchronous water level	214.0 (03/22/95)	214.9 (08/07/95)	213.1 (03/12/96)	212.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	33	27	37	37	1		µg/L	WA	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	2.9	<5.0	1.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<0.97	1.3	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.9	<5.0	2.1	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<42	<50	<100	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<42	<50	<100	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<42	<50	<100	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<50	<100	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<250	<100	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	760	310	340	360	20		µg/L	GE	2
		1,1,1-Trichloroethane	<42	<50	<100	<2.0	1		µg/L	GE	0
■		Trichloroethylene	1,300	1,400	1,200	1,300	10		µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	110			58	1		µg/L	GE	2
		Chloride				3,700	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0		0.95	1	JE	µg/L	WA	0
		Cobalt, total recoverable				1.2	1	JE	µg/L	GE	0
		Copper, total recoverable				3.2	1	JE	µg/L	GE	0
		Fluoride				33	1	JE	µg/L	GE	0
		Manganese, total recoverable	10			13	1	J	µg/L	WA	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	15,000			12,000	25		µg/L	WA	2
■		Sodium, total recoverable				7,300	1		µg/L	WA	
		Sulfate	<1,700			360	1		µg/L	WA	0
		Total phosphates (as P)				30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.0	4.3		5.5	1	JE	µg/L	WA	0
Radionuclides											
		Gross alpha	3.5E+00			7.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.4E+00			7.6E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	4.3E+00			1.5E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 18A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100416.1 E46110.4	33.323075 °N 81.740474 °W	163.9-158.9 ft msl	341.9 ft msl	3.75" PVC S		UL

SAMPLE DATE	01/17/95	09/12/95	01/30/96	07/18/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	214.2	214.0	213.2	212.6	ft msl
pH	4.7	4.5	4.6	6.0	pH
Sp. conductance	46	46	44	68	µS/cm
Water temperature	18.6	18.8	14.0	26.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	1	2	2	2	NTU
Volume purged	4.0	3.9	6.1	4.0	well volume
Sampling code					
Synchronous water level	213.9 (03/22/95)	214.3 (08/07/95)	212.9 (03/12/96)	212.5 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	14	14	12	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<1.6	1	V	µg/L	GE	0
		Lead, total recoverable	5.3	2.5	5.4	3.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	5.6	4.2	3.9	5.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<3.2	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	11	13	4.7	7.8	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	21	26	12	20	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	35			<20	1		µg/L	GE	0
		Chloride	1,900			2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.3	1	V	µg/L	GE	0
		Copper, total recoverable		<4.0		<8.3	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	13			15	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,600			3,400	4	V	µg/L	GE	0
		Sodium, total recoverable	2,900			2,800	1		µg/L	GE	0
		Sulfate	<1,700			390	1	JE	µg/L	GE	0
		Total phosphates (as P)				<83	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	2.6	4.8		3.5	1	JE	µg/L	GE	0

Radionuclides

		Gross alpha	8.0E-01			9.5E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.2E+00			1.9E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.8E+00			4.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 18B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100424.1 E46115.7	33.323102 °N 81.740475 °W	198.5-193.5 ft msl	342.1 ft msl	3.75" PVC	S	UL

SAMPLE DATE 01/17/95 09/12/95 01/30/96 07/19/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.6	222.8	222.7	222.0	ft msl
pH	6.3	5.4	5.0	6.8	pH
Sp. conductance	188	146	140	120	µS/cm
Water temperature	18.4	18.5	14.0	25.0	°C
Alkalinity as CaCO ₃	33	10	23	12	mg/L
Turbidity	5	7	2	3	NTU
Volume purged	6.9	13	7.1	5.5	well volume
Sampling code					
Synchronous water level	222.6 (03/22/95)	222.8 (08/07/95)	222.7 (03/12/96)	221.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	46	43	42	51	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	4.8	2.5	1.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.6	5.0	2.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.7	<1.9	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	6.2	4.5	2.7	2.9	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene	37	47	30	13	1		µg/L	GE	2
		1,1,1-Trichloroethane	2.0	2.4	<2.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene	14	17	8.3	13	1		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	290			<20	1		µg/L	GE	0
		Chloride	4,400			3,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.99	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.5	1	JEV	µg/L	GE	0
		Copper, total recoverable		1.1		4.3	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	16			21	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	10,000			8,800	10		µg/L	GE	1
	■	Sodium, total recoverable	12,000			11,000	1		µg/L	GE	0
		Sulfate	2,200			190	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			280	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	7.4	20		<14	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	5.5E+00			3.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	6.5E+00			6.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.6E+00			1.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 19A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100983.0 E50934.4	33.332206 °N 81.728874 °W	119.7-114.7 ft msl	300.3 ft msl	3.75" PVC	S	MCBC

SAMPLE DATE	01/19/95	09/18/95	02/09/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	214.7	216.1	215.6	214.4	ft msl
pH	4.7	4.8	4.8	6.0	pH
Sp. conductance	25	26	24	40	µS/cm
Water temperature	18.7	19.3	15.0	27.0	°C
Alkalinity as CaCO ₃	1	0	0	1	mg/L
Turbidity	1	2	1	0	NTU
Volume purged	3.5	3.3	4.0	4.7	well volume
Sampling code					
Synchronous water level	216.0 (03/22/95)	216.3 (08/08/95)	215.8 (03/14/96)	215.1 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.6	4.0	4.3	4.1	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.1	<4.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.2	1.4	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<4.0	2		µg/L	GE	0
		Tetrachloroethylene	3.4	<2.0	3.5	2.7	2	JE	µg/L	GE	1
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<4.0	2		µg/L	GE	0
		Trichloroethylene	30	<2.0	27	25	2		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	27			<20	1		µg/L	GE	0
		Chloride	2,100			1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.36	1	V	µg/L	GE	0
		Copper, total recoverable		0.55		1.1	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.3			<3.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.34		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,400	1	V	µg/L	GE	0
		Sodium, total recoverable	1,800			1,800	1		µg/L	GE	0
		Sulfate	1,700			630	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			140	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	13	12		<15	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.7E+00			1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.9E+00			1.6E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.3E+00			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 19B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100999.3 E50934.8	33.332243 °N 81.728905 °W	147.7-142.7 ft msl	300.4 ft msl	3.75" PVC	S	LL

SAMPLE DATE	01/19/95	08/25/95	02/05/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.9	219.5	217.7	217.0	ft msl
pH	4.9	5.0	5.0	5.8	pH
Sp. conductance	21	21	24	32	µS/cm
Water temperature	18.6	18.9	13.0	24.0	°C
Alkalinity as CaCO ₃	1	1	3	1	mg/L
Turbidity	1	1	2	1	NTU
Volume purged	4.4	4.3	2.2	5.0	well volume
Sampling code			X		
Synchronous water level	218.5 (03/22/95)	219.4 (08/08/95)	218.2 (03/14/96)	216.8 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	4.2	4.0	3.8	4.0	1		µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.5	6.2	3.0	3.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.7	5.7	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	4.1	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			100	1		µg/L	GE	2
		Chloride	2,100			1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.72		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.36	1	JE	µg/L	GE	0
		Copper, total recoverable		15		16	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.3			2.7	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	610			1,300	1	V	µg/L	GE	0
		Sodium, total recoverable	1,500			1,600	1		µg/L	GE	0
		Sulfate	1,300			250	1	JE	µg/L	GE	0
		Total phosphates (as P)	130			<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	5.4	6.5		<10	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	5.8E-01			1.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00			1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 19C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100992.1 E50942.4	33.332240 °N 81.728871 °W	218.7-198.7 ft msl	300.8 ft msl	3.75" PVC S		M

SAMPLE DATE	01/19/95	09/21/95	02/09/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	248.3	239.3	238.9	238.7	ft msl
pH	5.0	5.1	5.0	6.0	pH
Sp. conductance	102	133	130	120	µS/cm
Water temperature	19.2	20.0	15.0	25.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	4.2	5.3	6.7	6.2	well volume
Sampling code					
Synchronous water level	239.4 (03/22/95)	239.3 (08/08/95)	238.9 (03/14/96)	237.9 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.5	11	11	10	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.8	4.4	<6.3	4.9	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.4	2.0	2.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	4.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016		<0.12					µg/L		
		PCB 1221		<0.12					µg/L		
		PCB 1232		<0.12					µg/L		
		PCB 1242		<0.12					µg/L		
		PCB 1248		<0.12					µg/L		
		PCB 1254		<0.12					µg/L		
		PCB 1260		<0.12					µg/L		
		1,1,2,2-Tetrachloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	7.7	3.7	4.3	3.8	1		µg/L	GE	1
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	62	40	48	26	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
■		Chloride	5,100	5,300		5,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		2.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.2	1	JEV	µg/L	GE	0
		Copper, total recoverable		<2.0		1.7	1	JE	µg/L	GE	0
		Fluoride		<100		<100	1		µg/L	GE	0
		Manganese, total recoverable	5.3	7.9		8.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.075		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	6,000	10,000		8,900	10	V	µg/L	GE	1
■		Sodium, total recoverable	12,000			15,000	1		µg/L	GE	
■		Sulfate	6,400	5,000		5,100	1		µg/L	GE	0
		Total phosphates (as P)	<83			150	1		µg/L	GE	
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	99	100		110	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	2.7E+00			2.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.4E+00			2.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.9E+00			1.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 20A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103545.1 E46060.5	33.329910 °N 81.746692 °W	162.6-157.6 ft msl	355.3 ft msl	3.75" PVC	S	LL

SAMPLE DATE	01/19/95	09/08/95	01/30/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.9	220.4	219.4	219.0	ft msl
pH	5.5	5.2	5.5	5.4	pH
Sp. conductance	20	26	24	23	µS/cm
Water temperature	10.3	18.9	14.0	24.0	°C
Alkalinity as CaCO ₃	2	3	4	1	mg/L
Turbidity	4	4	3	3	NTU
Volume purged	8.4	4.3	6.7	8.0	well volume
Sampling code					
Synchronous water level	219.7 (03/23/95)	220.7 (08/07/95)	219.4 (03/12/96)	218.7 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	7.9	13	7.7	6.6	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<8.2	5.0	3.0	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<3.2	3.4	<2.0	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<42	<50	<40	<50	25		µg/L	GE	0
		1,1-Dichloroethane	<42	<50	<40	<50	25		µg/L	GE	0
		1,1-Dichloroethylene	<42	<50	<40	<50	25		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<50	<40	<50	25		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<250	<40	<50	25		µg/L	GE	0
		Tetrachloroethylene	<42	<50	<40	<50	25		µg/L	GE	0
		1,1,1-Trichloroethane	<42	<50	<40	<50	25		µg/L	GE	0
■		Trichloroethylene	810	1,000	540	940	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<23	1	V	µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.72		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				4.1	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	8.0			<4.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.018		0.034	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200			1,800	1	V	µg/L	GE	0
		Sodium, total recoverable				1,400	1	V	µg/L	GE	0
		Sulfate	1,200			120	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	18	<19		<15	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.2E+00			2.6E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.0E-01			1.3E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 20C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103556.3 E46088.8	33.329981 °N 81.746640 °W	232.7-212.7 ft msl	354.7 ft msl	3.75" PVC S		M

SAMPLE DATE	01/05/95	08/22/95	02/02/96	07/16/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	227.5	227.7	227.8	227.4	ft msl
pH	11.5	10.1	9.4	9.6	pH
Sp. conductance	146	165	220	180	µS/cm
Water temperature	11.1	18.4	15.0	25.0	°C
Alkalinity as CaCO ₃	34	33	95	46	mg/L
Turbidity	13	97	174	32	NTU
Volume purged	1.4	1.4	1.5	1.2	well volume
Sampling code	X		X	X	
Synchronous water level	227.6 (03/23/95)	227.6 (08/07/95)	228.1 (03/12/96)	227.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	3.3	8.1	7.8	7.1	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
■		Lead, total recoverable	5.0	160	86	85	1		µg/L	GE	2	
		Nickel, total recoverable	<6.7	48	26	32	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<2.6	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
■		Aluminum, total recoverable	430			570	1		µg/L	GE	2	
		Chloride				1,800	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	77		54	1		µg/L	GE	1	
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0	
		Copper, total recoverable				75	1	V	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
■		Manganese, total recoverable	12			52	1	V	µg/L	GE	2	
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	1,600			2,100	2	V	µg/L	GE	0	
■		Sodium, total recoverable				6,700	1		µg/L	GE		
■		Sulfate	6,400			6,300	1		µg/L	GE	0	
		Total phosphates (as P)				230	1		µg/L	GE		
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	26	180		140	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	1.2E-01			5.5E-01	1	UI	pCi/L	GP	0	
		Nonvolatile beta	1.5E+00			1.3E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	6.0E-01			2.0E-01	1	UI	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 21A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103967.0 E47217.2	33.332732 °N 81.744468 °W	159.5-154.5 ft msl	354.8 ft msl	3.75" PVC	S	LL

SAMPLE DATE	01/20/95	09/08/95	01/18/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.2	222.9	221.6	221.3	ft msl
pH	5.2	5.1		5	pH
Sp. conductance	25	23		24	µS/cm
Water temperature	18.1	19.2		25.0	°C
Alkalinity as CaCO ₃	1	1		2	mg/L
Turbidity	1	2		2	NTU
Volume purged	3.2	4.0		2.4	well volume
Sampling code			P		
Synchronous water level	222.0 (03/23/95)	223.8 (08/07/95)	221.6 (03/12/96)	221.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	5.2	4.8		5.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20		<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<11		5.6	1	J	µg/L	GE	0
		Nickel, total recoverable	<6.7	<3.0		1.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0		<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0		<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10		<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0		<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0		<2.0	1		µg/L	GE	0
		Trichloroethylene	15	27		30	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			29	1		µg/L	GE	1
		Chloride	2,300			1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.1	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.49	1	V	µg/L	GE	0
		Copper, total recoverable		11		24	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.5			6.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.090		0.19	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,600	1	JV	µg/L	GE	0
		Sodium, total recoverable	2,200			1,700	1	V	µg/L	GE	0
		Sulfate	1,300			190	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			220	1		µg/L	GE	0
		Uranium, total recoverable	<33			<27	1	V	µg/L	GE	0
		Zinc, total recoverable	30	30		33	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+00			5.8E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.2E+00			1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 21B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104000.1 E47271.8	33.332894 °N 81.744388 °W	147.2-142.5 ft msl	355 ft msl	4" PVC	S	LL

SAMPLE DATE	01/20/95	09/08/95	01/19/96	07/29/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.8	222.3	221.1	210.4	ft msl
pH	5.7	5.3	4.8	6.3	pH
Sp. conductance	28	26	24	38	µS/cm
Water temperature	18.1	18.9	31.0	25.0	°C
Alkalinity as CaCO ₃	3	3	2	2	mg/L
Turbidity	1	1	0	0	NTU
Volume purged	3.2	4.1	5.1	3.7	well volume
Sampling code					
Synchronous water level	221.3 (03/23/95)	223.2 (08/07/95)	221.0 (03/12/96)	220.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	13	13	12	13	1	V	µg/L	GE	0
		Cyanide	1.9	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	1.3	<6.6	1.3	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	0.99	<1.1	2.0	<10	1		µg/L	GE	0
		Selenium, total recoverable	<2.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<20	<20	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<20	<20	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<20	<20	<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<20	<20	<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<100	<20	<20	10		µg/L	GE	0
		Tetrachloroethylene	<1.7	<20	<20	<20	10		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<20	<20	<20	10		µg/L	GE	0
■		Trichloroethylene	220	320	260	210	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			29	1	J	µg/L	GE	1
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	1.1	<4.0	1.2	0.77	1	JE	µg/L	GE	0
		Cobalt, total recoverable			1.1	0.65	1	JE	µg/L	GE	0
		Copper, total recoverable			1.1	<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.1		3.9	3.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen	740						µg/L	GE	0
		Nitrate-nitrite as nitrogen	660			900	1	V	µg/L	GE	0
		Sodium, total recoverable				1,700	1	JV	µg/L	GE	0
		Sulfate	1,400			290	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.7	<7.4	3.5	3.3	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.7E+00			7.3E-01	1		pCi/L	GP	0
		Nonvolatile beta	2.5E+00			8.2E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 21C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103973.0 E47234.6	33.332774 °N 81.744433 °W	233.2-213.2 ft msl	354.8 ft msl	3.75" PVC S		M

SAMPLE DATE 01/20/95 08/21/95 02/01/96 07/15/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	229.5	229.9	230.1	229.7	ft msl
pH	5.3	5.4	5.0	6.0	pH
Sp. conductance	22	23	32	36	µS/cm
Water temperature	18.2	18.7	19.0	25.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	2	4	2	6	NTU
Volume purged	10	8.5	5.0	17	well volume
Sampling code					
Synchronous water level	229.8 (03/23/95)	229.8 (08/07/95)	230.3 (03/12/96)	229.5 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	6.5	7.0	6.1	9.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	2.3	1	JE	µg/L	GE	0
		Lead, total recoverable	3.4	<7.5	4.4	5.3	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.6	4.0	2.9	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			62	1		µg/L	GE	2
		Chloride	2,100			1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.74	1	V	µg/L	GE	0
		Copper, total recoverable		8.7		12	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.8			7.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	730			1,300	1		µg/L	GE	0
		Sodium, total recoverable	1,700			1,500	1		µg/L	GE	0
		Sulfate	1,400			220	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<9.8	1	V	µg/L	GE	0
		Zinc, total recoverable	10	10		15	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.7E+00			2.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.6E+00			2.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.3E+00			1.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 23B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104336.6 E49286.4	33.336929 °N 81.739738 °W	176.1-171.1 ft msl	371.6 ft msl	4" PVC	S	UL

SAMPLE DATE	01/16/95	09/22/95	02/08/96	07/29/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.9	224.2	224.5	223.7	ft msl
pH	4.7	4.8	4.6	5.6	pH
Sp. conductance	344	357	360	440	µS/cm
Water temperature	20.1	20.4	15.0	27.0	°C
Alkalinity as CaCO ₃	0	0	1	0	mg/L
Turbidity	2	4	4	2	NTU
Volume purged	3.7	5.0	6.4	5.9	well volume
Sampling code					
Synchronous water level	225.4 (03/22/95)	227.6 (08/07/95)	224.3 (03/12/96)	223.0 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	90	120	110	150	1	V	µg/L	GE	0
		Cyanide	<8.3	<0.72	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.2	<5.0	5.0	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	7.3	6.9	6.3	8.9	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1,700	<1,000	<400	<500	250		µg/L	GE	0
		1,1-Dichloroethane	<1,700	<1,000	<400	<500	250		µg/L	GE	0
		1,1-Dichloroethylene	<1,700	<1,000	<400	<500	250		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1,700	<1,000	<400	<500	250		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1,700	<5,000	<400	<500	250		µg/L	GE	0
■		Tetrachloroethylene	26,000	49,000	39,000	22,000	250		µg/L	GE	2
		1,1,1-Trichloroethane	<1,700	<1,000	<400	<500	250		µg/L	GE	0
■		Trichloroethylene	32,000	43,000	36,000	21,000	250		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	380			690	1	J	µg/L	GE	2
		Chloride				3,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.81	1	JE	µg/L	GE	0
■		Cobalt, total recoverable				17	1		µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				260	1		µg/L	GE	0
■		Manganese, total recoverable	100			180	1	V	µg/L	GE	2
		Mercury, total recoverable	0.81	0.98		0.77	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	34,000			48,000	50	V	µg/L	GE	2
■		Sodium, total recoverable				15,000	1	JV	µg/L	GE	
		Sulfate	<1,700			210	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	110	66		58	1		µg/L	GE	0

Radionuclides

■		Gross alpha	3.1E+01			2.4E+01	1		pCi/L	GP	2
		Nonvolatile beta	1.6E+01			1.9E+01	1		pCi/L	GP	0
■		Radium, total alpha-emitting	2.3E+01			1.4E+01	1		pCi/L	GP	1

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 23TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104298.8 E49225.8	33.336746 °N 81.739824 °W	65.4-60.4 ft msl	372.9 ft msl	4" Steel	S	CBA

SAMPLE DATE 01/16/95 08/31/95 02/08/96 07/10/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	202.8	203.6	199.8	201.4	ft msl
pH	5.3	5.6	5.2	5.8	pH
Sp. conductance	32	31	30	46	µS/cm
Water temperature	19.9	19.8	15.0	30.0	°C
Alkalinity as CaCO ₃	3	5	3	1	mg/L
Turbidity	2	2	2	4	NTU
Volume purged	2.2	1.9	2.4	2.4	well volume
Sampling code					
Synchronous water level	202.9 (03/22/95)	201.8 (08/07/95)	201.8 (03/12/96)	202.3 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	8.2	7.6	8.2	12	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.1	65	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.4	1.3	<2.0	1.3	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<42	1	V	µg/L	GE	0
		Chloride				2,000	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	0.66		0.63	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.31	1	JE	µg/L	GE	0
		Copper, total recoverable				<1.0	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	19			23	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.015		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			270	1	V	µg/L	GE	0
		Sodium, total recoverable				2,200	1	V	µg/L	GE	0
		Sulfate	3,600			4,600	1		µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	6.1		4.0	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+00			1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.3E+00			1.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.5E+00			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 24

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104614.4 E49842.9	33.338451 °N 81.738813 °W	243.9-223.9 ft msl	380.2 ft msl	4" PVC	S	M

SAMPLE DATE	01/31/95	09/22/95	02/09/96	07/29/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.2	235.8	235.8	235.3	ft msl
pH	10.5	6.3	5.4	5.6	pH
Sp. conductance	146	88	180	200	µS/cm
Water temperature	18.0	26.0	10.0	35.0	°C
Alkalinity as CaCO ₃	25	26	26	26	mg/L
Turbidity	7	4	1	1	NTU
Volume purged	1.1	1.3	1.2	0.80	well volume
Sampling code	X	X	X	X	
Synchronous water level	235.3 (03/22/95)	235.6 (08/08/95)	235.6 (03/12/96)	235.3 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.0	6.1	4.1	9.9	1	V	µg/L	GE	0
		Cyanide	<8.3	<1.4	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<170	<500	<2.0	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<170	<500	<2.0	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<170	<500	16	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<500	<2.0	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<2,500	<2.0	<200	100		µg/L	GE	0
■		Tetrachloroethylene	2,200	4,100	3,900	3,600	100		µg/L	GE	2
		1,1,1-Trichloroethane	<170	<500	2.9	<200	100		µg/L	GE	0
■		Trichloroethylene	5,200	8,300	9,200	6,400	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	190			130	1	J	µg/L	GE	2
		Chloride				2,200	1		µg/L	GE	0
		Chromium, total recoverable	4.5	3.7		3.6	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.37	1	JE	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			5.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.16		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,900			2,400	4	V	µg/L	GE	0
		Sodium, total recoverable				3,900	1	JV	µg/L	GE	0
■		Sulfate	3,900			3,300	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	17	15		13	1		µg/L	GE	0

Radionuclides

		Gross alpha	8.9E-01			1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+00			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 25A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103504.8 E49657.9	33.335697 °N 81.737141 °W	169.7-159.7 ft msl	366.4 ft msl	4" PVC	S	LL

SAMPLE DATE	01/27/95	09/21/95	01/25/96	08/07/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	218.0	217.5	216.5	216.2	ft msl
pH	5.4	4.7	4.6	4.8	pH
Sp. conductance	23	30	28	26	µS/cm
Water temperature	19.7	21.0	15.0	26.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	1	0	0	1	NTU
Volume purged	3.7	4.1	4.1	4.9	well volume
Sampling code					
Synchronous water level	219.9 (03/22/95)	222.4 (08/08/95)	216.8 (03/12/96)	216.4 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	5.6	4.9	7.6	4.2	1		µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.4	<2.4	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<5.4	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.0	<4.4	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<84	<2.0	<40	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<84	<2.0	<40	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	<84	<2.0	<40	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<84	<2.0	<40	<100	50		µg/L	GE	0
		PCB 1016		<0.12					µg/L		
		PCB 1221		<0.12					µg/L		
		PCB 1232		<0.12					µg/L		
		PCB 1242		<0.12					µg/L		
		PCB 1248		<0.12					µg/L		
		PCB 1254		<0.12					µg/L		
		PCB 1260		<0.12					µg/L		
		1,1,2,2-Tetrachloroethane	<84	<5.0	<40	<100	50		µg/L	GE	0
■		Tetrachloroethylene	210	160	130	80	50	JE	µg/L	GE	2
		1,1,1-Trichloroethane	<84	<2.0	<40	<100	50		µg/L	GE	0
■		Trichloroethylene	1,700	1,600	1,300	1,400	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride		1,800		2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.54	1	JE	µg/L	GE	0
		Copper, total recoverable		<1.2		1.2	1	JE	µg/L	GE	0
		Fluoride		<100		<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3	0.83		<0.80	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.11		0.33	1		µg/L	GE	0
		Nitrate as nitrogen							µg/L	GE	0
		Nitrate-nitrite as nitrogen	1,600	1,700		1,800	1	V	µg/L	GE	0
		Sodium, total recoverable				2,100	1	JV	µg/L	GE	0
		Sulfate	1,300	160		190	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00			4.3E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	9.8E-01			9.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 26

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104612.8 E48941.7	33.336976 °N 81.741183 °W	240.7-220.7 ft msl	361.7 ft msl	4" PVC	S	M

SAMPLE DATE	01/17/95	09/08/95	01/18/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	237.2	237.2	237.5	237.0	ft msl
pH	5.2	5.0	5.0	5.1	pH
Sp. conductance	18	21	18	21	µS/cm
Water temperature	19.8	20.1	34.0	26.0	°C
Alkalinity as CaCO ₃	2	1	1	1	mg/L
Turbidity	2	2	2	2	NTU
Volume purged	3.5	6.9	5.1	5.3	well volume
Sampling code					
Synchronous water level	237.6 (03/23/95)	237.1 (08/07/95)	237.6 (03/12/96)	(09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.3	2.6	2.6	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<6.0	1.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<2.9	6.2	<4.2	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<17	<100	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<17	<100	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<17	<100	<10	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<100	<10	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<500	<10	<10	5		µg/L	GE	0
■		Tetrachloroethylene	89	60	36	55	5		µg/L	GE	2
		1,1,1-Trichloroethane	<17	<100	<10	<10	5		µg/L	GE	0
■		Trichloroethylene	380	240	180	220	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	20			<40	1	V	µg/L	GE	0
		Chloride				2,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	4.2		3.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.18	1	JE	µg/L	GE	0
		Copper, total recoverable				4.9	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.3			<2.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.029	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	240			580	1	V	µg/L	GE	0
		Sodium, total recoverable				2,200	1	V	µg/L	GE	0
		Sulfate	1,800			810	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.4	<6.2		<7.6	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	9.4E-01			4.4E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.1E+00			3.8E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			2.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 26B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104646.7 E48944.6	33.337056 °N 81.741241 °W	136.9-132.1 ft msl	362.8 ft msl	4" PVC	S	LL

SAMPLE DATE	01/05/95	09/08/95	02/09/96	08/01/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.6	221.3	219.7	218.6	ft msl
pH		5.4	5.2	5.2	pH
Sp. conductance		25	26	24	µS/cm
Water temperature		19.3	15.0	25.0	°C
Alkalinity as CaCO ₃		5	5	1	mg/L
Turbidity		2	0	1	NTU
Volume purged		3.6	4.0	4.1	well volume
Sampling code	P				
Synchronous water level	219.9 (03/23/95)	223.3 (08/07/95)	219.1 (03/12/96)	219.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable		5.4	6.9	6.0	1	V	µg/L	GE	0
		Cyanide		<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable		<6.4	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable		<1.0	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable		<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene		<10	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<10	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<10	<10	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		<10	<10	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<50	<10	<2.0	1		µg/L	GE	0
		Tetrachloroethylene		9.0	13	6.2	1		µg/L	GE	2
		1,1,1-Trichloroethane		<10	<10	<2.0	1		µg/L	GE	0
		Trichloroethylene		120	88	85	1		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable				<20	1		µg/L	GE	0
		Chloride				2,300	1		µg/L	GE	0
		Chromium, total recoverable		<4.0		0.85	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.84	1	V	µg/L	GE	0
		Copper, total recoverable				<2.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				<2.2	1	V	µg/L	GE	0
		Mercury, total recoverable		<0.20		0.089	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				550	1	V	µg/L	GE	0
		Sodium, total recoverable				1,900	1	V	µg/L	GE	0
		Sulfate				330	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<13	1	V	µg/L	GE	0
		Zinc, total recoverable		<7.6		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha				-3.2E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta				9.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting				-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 27

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104972.8 E49487.7	33.338664 °N 81.740446 °W	244.0-234.0 ft msl	375.5 ft msl	4" PVC	S	M

SAMPLE DATE	01/11/95	08/30/95	01/25/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	237.8	237.4	237.0	237.0	ft msl
pH	4.7	4.5	5.2	4.4	pH
Sp. conductance	65	60	48	60	µS/cm
Water temperature	19.7	20.2	24.0	25.0	°C
Alkalinity as CaCO ₃	0	0	2	0	mg/L
Turbidity	1	2	1	9	NTU
Volume purged	27	23	13	11	well volume
Sampling code					
Synchronous water level	236.3 (03/22/95)	237.2 (08/08/95)	237.2 (03/12/96)	236.5 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	17	15	19	18	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	3.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.0	2.4	2.5	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.5	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	1.1	<2.0	1.1	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	2.2	2.3	3.2	1.2	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	110			150	1		µg/L	GE	2
■		Chloride				5,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.68		2.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				2.0	1	JE	µg/L	GE	0
		Copper, total recoverable				2.3	1	JE	µg/L	GE	0
		Fluoride				22	1	JE	µg/L	GE	0
		Manganese, total recoverable	13		15	15	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.064		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,400			4,100	4	V	µg/L	GE	0
■		Sodium, total recoverable				4,600	1		µg/L	GE	0
		Sulfate	<1,700			<1,000	1		µg/L	GE	0
		Total phosphates (as P)				60	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.2	9.5		<6.4	1	V	µg/L	GE	0

Radionuclides

Gross alpha	2.4E+00	1.9E+00	1	pCi/L	GP	0
Nonvolatile beta	9.6E-01	1.9E+00	1	pCi/L	GP	0
Radium, total alpha-emitting	2.9E+00	5.0E-01	1	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 27B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104940.3 E49486.4	33.338590 °N 81.740386 °W	169.9-164.4 ft msl	376.8 ft msl	4" PVC	S	UL

SAMPLE DATE 01/27/95 09/22/95 02/08/96 08/07/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	226.0	227.1	226.5	225.9	ft msl
pH	5.3	4.9	4.8	4.8	pH
Sp. conductance	22	29	28	28	µS/cm
Water temperature	18.1	19.4	15.0	25.0	°C
Alkalinity as CaCO ₃	1	2	1	1	mg/L
Turbidity	1	3	0	1	NTU
Volume purged	4.4	4.3	5.1	5.3	well volume
Sampling code					
Synchronous water level	227.9 (03/22/95)	229.6 (08/08/95)	226.4 (03/12/96)	225.7 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.3	3.2	3.8	3.3	1		µg/L	GE	0
		Cyanide	<8.3	<1.8	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	4.3	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.1	1.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	1.5	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<420	<500	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<420	<500	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<420	<500	<500	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<420	<500	<500	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<420	<2,500	<500	<200	100		µg/L	GE	0
	■	Tetrachloroethylene	2,100	1,300	690	240	100		µg/L	GE	2
		1,1,1-Trichloroethane	<420	<500	<500	<200	100		µg/L	GE	0
	■	Trichloroethylene	25,000	19,000	8,300	6,200	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		3.2	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.86	1	JE	µg/L	GE	0
		Copper, total recoverable				6.3	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.4		4.7	4.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,500	1	V	µg/L	GE	0
		Sodium, total recoverable				2,900	1	JV	µg/L	GE	0
		Sulfate	1,400			250	1	JE	µg/L	GE	0
		Total phosphates (as P)				130	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	4.5	6.2		6.6	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.9E-01			6.4E-01	1		pCi/L	GP	0
		Nonvolatile beta	4.1E-01			4.2E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			2.0E-01	1	UJI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 27TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104951.4 E49486.5	33.338614 °N 81.740407 °W	55.9-50.6 ft msl	376.6 ft msl	4" CS	S	CBA

SAMPLE DATE	01/11/95	08/30/95	01/25/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	202.2	203.1	201.5	201.3	ft msl
pH	4.9	4.8	5.2	4.4	pH
Sp. conductance	27	23	26	34	µS/cm
Water temperature	19.1	19.9	24.0	25.0	°C
Alkalinity as CaCO ₃	0	0	2	1	mg/L
Turbidity	1	2	1	2	NTU
Volume purged	2.5	2.5	2.8	2.2	well volume
Sampling code					
Synchronous water level	202.7 (03/22/95)	201.1 (08/08/95)	201.8 (03/12/96)	202.2 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.0	6.3	5.9	5.9	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	6.4	6.6	5.2	7.1	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.7	1.1	1.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	20			20	1	JE	µg/L	GE	0
		Chloride				2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				1.2	1	JE	µg/L	GE	0
		Copper, total recoverable				17	1		µg/L	GE	0
		Fluoride				28	1	JE	µg/L	GE	0
		Manganese, total recoverable	36			41	1		µg/L	GE	1
		Mercury, total recoverable	0.22	<0.20		0.021	1	JE	µg/L	GE	0
		Nitrate as nitrogen				360	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	<83			1,500	1		µg/L	GE	0
		Sodium, total recoverable				3,400	1		µg/L	GE	0
		Sulfate	3,000			<50	1	J	µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				<5.6	1	V	µg/L	GE	0
		Zinc, total recoverable	3.1	5.3					µg/L	GE	0
Radionuclides											
		Gross alpha	1.3E+00			9.2E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.4E+00			7.2E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.6E+00			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 28

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104941.8 E48517.3	33.337010 °N 81.742941 °W	230.6-210.6 ft msl	354.8 ft msl	4" PVC	S	M

SAMPLE DATE	01/10/95	08/21/95	01/30/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.0	231.9	231.8	231.3	ft msl
pH	6.6	6.5	6.6	6.4	pH
Sp. conductance	61	58	100	70	µS/cm
Water temperature	17.9	18.0	20.0	25.0	°C
Alkalinity as CaCO ₃	20	20	10	22	mg/L
Turbidity	1	3	1	3	NTU
Volume purged	8.6	10	5.2	3.6	well volume
Sampling code					
Synchronous water level	231.2 (03/23/95)	231.7 (08/07/95)	231.8 (03/12/96)	230.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	3.3	4.4	4.2	4.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.6	1.3	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	1.7	<2.9	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	39			<38	1	V	µg/L	GE	0
		Chloride				2,200	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	5.2		1.2	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.34	1	JE	µg/L	GE	0
		Copper, total recoverable				<1.5	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.8	4.7		4.3	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	210			560	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1	V	µg/L	GE	0
		Sulfate	<1,700			1,100	1		µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	330	410		400	1		µg/L	GE	0
Radionuclides											
		Gross alpha	7.6E-01			5.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.5E+00			7.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107326.8 E51236.4	33.346723 °N 81.740421 °W	122.9-117.3 ft msl	365.2 ft msl	4" PVC	S	MCBC

SAMPLE DATE 01/30/95 08/23/95 01/25/96 07/11/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.1	222.3	221.4	219.9	ft msl
pH	6.1	5.8	5.6	5.4	pH
Sp. conductance	50	44	34	40	µS/cm
Water temperature	19.0	20.7	22.0	30.0	°C
Alkalinity as CaCO ₃	8	1	9	1	mg/L
Turbidity	1	2	1	2	NTU
Volume purged	2.2	2.2	2.4	2.3	well volume
Sampling code					
Synchronous water level	221.2 (03/22/95)	221.7 (08/07/95)	221.3 (03/11/96)	221.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	22	21	21	31	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	4.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<4.0	3.8	5.3	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.8	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33		<30	<20	1		µg/L	GE	0
		Chloride				1,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.7	2.8	3.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.1	1	JE	µg/L	GE	0
		Copper, total recoverable				17	1		µg/L	GE	0
		Fluoride				30	1	JE	µg/L	GE	0
		Manganese, total recoverable	23		23	28	1		µg/L	GE	1
		Mercury, total recoverable	<0.33	<0.20	<0.14	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	510		580	920	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	0
		Sulfate	4,600		5,200	5,700	1		µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	22	27		60	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00		2.2E+00	1.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.1E+00		9.1E-01	1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	8.0E-01			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107330.4 E51245.7	33.346746 °N 81.740403 °W	63.9-58.6 ft msl	365 ft msl	4" CS	S	CBA

SAMPLE DATE	01/30/95	08/23/95	01/25/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	213.2	214.0	213.4	212.4	ft msl
pH	4.6	4.6	5.2	4.4	pH
Sp. conductance	21	19	18	20	µS/cm
Water temperature	18.4	20.1	22.0	26.0	°C
Alkalinity as CaCO ₃		0	3	0	mg/L
Turbidity	1	1	10	3	NTU
Volume purged	2.5	2.5	2.6	2.3	well volume
Sampling code					
Synchronous water level	213.6 (03/22/95)	213.0 (08/07/95)	213.4 (03/11/96)	213.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.8	2.8	2.8	1	JE	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	6.3	5.7	4.4	4.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.2	1.2	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.9	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	2.7	2.6	1.8	1.2	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33		<29	<20	1		µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	0.80	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.37	1	JE	µg/L	GE	0
		Copper, total recoverable				19	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	15		20	20	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.10	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				1,100	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	460		480	1,500	1		µg/L	GE	0
		Sodium, total recoverable				790	1	JE	µg/L	GE	0
		Sulfate	<1,700		840	80	1	J	µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable	<3.3	5.8		<4.4	1	V	µg/L	GE	0
		Zinc, total recoverable									

Radionuclides

		Gross alpha	3.0E-01		3.6E-01	4.0E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	9.4E-01		4.5E-01	8.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	5.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 30AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105715.7 E47970.5	33.337828 °N 81.745886 °W	96.4-90.8 ft msl	353 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/10/95	08/22/95	01/26/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.2	225.6	224.6	224.5	ft msl
pH	6.3	6.2	5.4	6.2	pH
Sp. conductance	93	91	50	96	µS/cm
Water temperature	17.5	18.0	22.0	23.0	°C
Alkalinity as CaCO ₃	23	22	5	78	mg/L
Turbidity	1	15	15	3	NTU
Volume purged	0.56	0.72	0.85	0.65	well volume
Sampling code	X		X	X	
Synchronous water level	224.8 (03/23/95)	225.4 (08/07/95)	224.8 (03/12/96)	224.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	19	13	16	23	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	23	<5.0	2.9	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	11	2.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.3	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.81		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.31	1	JE	µg/L	GE	0
		Copper, total recoverable				3.1	1	JE	µg/L	GE	0
		Fluoride				41	1	JE	µg/L	GE	0
		Manganese, total recoverable	75			78	1		µg/L	GE	2
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			430	1	V	µg/L	GE	0
		Sodium, total recoverable				1,900	1		µg/L	GE	0
		Sulfate	12,000			13,000	1		µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	32		<6.7	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E-01			2.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.8E+00			2.3E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 30B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105719.9 E47981.8	33.337856 °N 81.745865 °W	128.7-123.1 ft msl	353.5 ft msl	4" PVC	S	LL

SAMPLE DATE	01/10/95	08/21/95	01/22/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.4	227.4	226.0	225.6	ft msl
pH	3.8	4.2	5.4	4.0	pH
Sp. conductance	35	34	11	36	µS/cm
Water temperature	18.3	19.2	34.0	26.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	0	0	2	NTU
Volume purged	2.7	3.0		2.3	well volume
Sampling code					
Synchronous water level	226.3 (03/23/95)	227.4 (08/07/95)	226.1 (03/12/96)	225.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	7.2	8.4	7.5	8.2	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<6.4	1.2	17	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	3.1	1	JE	µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	56			43	1		µg/L	GE	1
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.4		1.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.0	1	JE	µg/L	GE	0
		Copper, total recoverable				29	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	8.3			10	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	50			530	1	V	µg/L	GE	0
		Sodium, total recoverable				1,500	1		µg/L	GE	0
		Sulfate	4,300			4,800	1		µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				8.4	1	JE	µg/L	GE	0
		Zinc, total recoverable	6.3	5.1		16	1	V	µg/L	GE	0
		Radionuclides									
		Gross alpha	1.1E+00			8.1E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+00			1.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.7E+00			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 30C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105731.1 E48013.7	33.337932 °N 81.745803 °W	237.6-217.6 ft msl	354.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/10/95	08/21/95	01/26/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.1	232.0	230.9	231.3	ft msl
pH	4.8	5.1	4.8	5.0	pH
Sp. conductance	16	18	12	7	µS/cm
Water temperature	17.9	18.3	23.0	22.0	°C
Alkalinity as CaCO ₃	1	1	3	2	mg/L
Turbidity	1	1	1	3	NTU
Volume purged	10	39	7.0	7.8	well volume
Sampling code					
Synchronous water level	231.5 (03/23/95)	231.8 (08/07/95)	232.0 (03/12/96)	231.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.5	7.2	2.2	1	JEV	µg/L	GE	0
		Cyanide	<8.3		<10	4.2	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<4.5	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.8	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			81	1		µg/L	GE	2
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.75	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.78	1	V	µg/L	GE	0
		Copper, total recoverable				<3.7	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.7			4.3	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.030	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	300			660	1	V	µg/L	GE	0
		Sodium, total recoverable				1,300	1		µg/L	GE	0
		Sulfate	<1,700			360	1	JE	µg/L	GE	0
		Total phosphates (as P)				80	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	28	25		16	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.5E-01			4.4E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	4.0E-01			8.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 30CC

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105724.2 E47993.3	33.337884 °N 81.745843 °W	164.0-158.4 ft msl	354 ft msl	4" PVC	S	UL

SAMPLE DATE	01/10/95	08/21/95	01/26/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.6	227.6	225.9	225.6	ft msl
pH	4.8	4.8	5.0	4.6	pH
Sp. conductance	23	23	20	8	µS/cm
Water temperature	18.5	18.8	24.0	22.0	°C
Alkalinity as CaCO ₃	1	0	2	0	mg/L
Turbidity	1	1	1	2	NTU
Volume purged	2.9	4.8	2.9	3.1	well volume
Sampling code			P		
Synchronous water level	226.2 (03/23/95)	227.5 (08/07/95)	226.1 (03/12/96)	225.5 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.3	6.5	2.3	6.4	1		µg/L	GE	0
		Cyanide	93	<20	<10	1.9	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<4.1	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	0.96	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
PCB 1016										
PCB 1221										
PCB 1232										
PCB 1242										
PCB 1248										
PCB 1254										
PCB 1260										
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.27	1	JE	µg/L	GE	0
		Copper, total recoverable				4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	13			13	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	840			1,400	1	V	µg/L	GE	0
		Sodium, total recoverable				1,700	1		µg/L	GE	0
		Sulfate	1,000			940	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	12	9.7		<12	1	V	µg/L	GE	0

Radionuclides

Gross alpha	7.0E-01		6.7E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	3.7E-01		4.6E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	6.0E-01		0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 31B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101981.3 E50078.7	33.333016 °N 81.733069 °W	157.3-152.3 ft msl	348.3 ft msl	4" PVC	S	LL

SAMPLE DATE	02/01/95	09/18/95	01/23/96	07/31/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.1	220.9	213.7	218.4	ft msl
pH	4.7	4.9	5.1	4.8	pH
Sp. conductance	27	49	26	26	µS/cm
Water temperature	19.4	19.4	19.8	27.0	°C
Alkalinity as CaCO ₃	0	1	3	0	mg/L
Turbidity	0	2	1	0	NTU
Volume purged	4.1	3.4	3.8	12	well volume
Sampling code					
Synchronous water level	220.8 (03/23/95)	223.2 (08/08/95)	220.5 (03/14/96)	213.8 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Barium, total recoverable	4.8	7.3	5.0	4.0	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<7.7	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.9	1.8	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<17	<20	<2.0	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<17	<20	<2.0	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<17	<20	1.4	<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<20	<2.0	<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<100	<2.0	<20	10		µg/L	GE	0
	■	Tetrachloroethylene	760	39	4,400	410	10		µg/L	GE	2
		1,1,1-Trichloroethane	<17	<20	<2.0	<20	10		µg/L	GE	0
	■	Trichloroethylene	600	300	2,800	240	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	2,000			2,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.92	1	V	µg/L	GE	0
		Copper, total recoverable		3.1		<3.7	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.0			2.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.12	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,400			1,100	1	V	µg/L	GE	0
		Sodium, total recoverable	2,000			2,200	1		µg/L	GE	0
		Sulfate	<1,700			420	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	2.9	6.0		4.0	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00			1.7E+00	1		pCi/L	GP	
		Nonvolatile beta	1.5E+00			1.5E+00	1		pCi/L	GP	
		Radium, total alpha-emitting	1.4E+00			6.0E-01	1		pCi/L	GP	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 31C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101979.6 E50089.9	33.333030 °N 81.733037 °W	236.1-216.1 ft msl	348.1 ft msl	4" PVC	S	M

SAMPLE DATE 01/25/95 09/18/95 01/23/96 07/31/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.0	236.5	235.7	235.4	ft msl
pH	5.8	5.4	5.5	5.5	pH
Sp. conductance	112	109	100	81	µS/cm
Water temperature	18.4	19.4	18.4	26.0	°C
Alkalinity as CaCO ₃	4	4	8	3	mg/L
Turbidity	1	2	1	1	NTU
Volume purged	6.9	5.8	8.6	6.1	well volume
Sampling code					
Synchronous water level	235.9 (03/23/95)	236.3 (08/08/95)	235.9 (03/14/96)	235.0 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	20	14	15	15	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	3.0	1.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.4	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<840	<2,000	<2,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethane	<840	<2,000	<2,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethylene	<840	<2,000	<2,000	<2,000	1000		µg/L	GE	0
		trans-1,2-Dichloroethylene	<840	<2,000	<2,000	<2,000	1000		µg/L	GE	0
		PCB 1016	<0.82	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1221	<0.82	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1232	<0.82	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1242	<0.82	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1248	<0.82	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1254	<0.82	<13	<0.13	<0.13	1		µg/L	GE	0
		PCB 1260	<0.82	<13	<0.13	<0.13	1	J	µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<840	<10,000	<2,000	<2,000	1000		µg/L	GE	0
■		Tetrachloroethylene	43,000	19,000	63,000	36,000	1000		µg/L	GE	2
		1,1,1-Trichloroethane	<840	<2,000	<2,000	<2,000	1000		µg/L	GE	0
■		Trichloroethylene	42,000	47,000	42,000	18,000	1000		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	40			23	1		µg/L	GE	0
■		Chloride	5,500			4,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.2	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.1	1	V	µg/L	GE	0
		Copper, total recoverable		1.6		<3.4	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.7			7.9	1	V	µg/L	GE	0
		Mercury, total recoverable	0.21	0.086		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	6,800			5,700	4	V	µg/L	GE	1
■		Sodium, total recoverable	12,000			11,000	1		µg/L	GE	0
■		Sulfate	8,800			8,300	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	16	15		16	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.3E+01			6.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.0E+01			5.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+01			3.5E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 31CC

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101983.1 E50067.9	33.333002 °N 81.733101 °W	181.4-176.7 ft msl	348.6 ft msl	4" PVC	S	UL

SAMPLE DATE	02/01/95	09/18/95	01/23/96	07/31/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.0	220.9	213.8	217.8	ft msl
pH	5.2	6.1	5.8	5.6	pH
Sp. conductance	55	90	38	44	µS/cm
Water temperature	19.5	19.9	19.6	26.0	°C
Alkalinity as CaCO ₃	1	20	15	1	mg/L
Turbidity	1	2	2	1	NTU
Volume purged	2.6	2.9	4.2	3.6	well volume
Sampling code					
Synchronous water level	220.8 (03/23/95)	223.3 (08/08/95)	220.4 (03/14/96)	213.8 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	15	11	12	16	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	Y	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.93	<10	2.4	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.9	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<8.4	<500	<20	<20	10	Y	µg/L	GE	0
		1,1-Dichloroethane	<8.4	<500	<20	<20	10	Y	µg/L	GE	0
		1,1-Dichloroethylene	<8.4	<500	<20	<20	10	Y	µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.4	<500	<20	<20	10	Y	µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.4	<2,500	<20	<20	10	Y	µg/L	GE	0
■		Tetrachloroethylene	160	15,000	820	560	10	Y	µg/L	GE	2
		1,1,1-Trichloroethane	<8.4	<500	<20	<20	10	Y	µg/L	GE	0
■		Trichloroethylene	490	7,800	1,500	980	10	Y	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	38			33	1		µg/L	GE	1
		Chloride				2,000	1	Y	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.74	1	V	µg/L	GE	0
		Copper, total recoverable				<2.0	1	V	µg/L	GE	0
		Fluoride				<100	1	Y	µg/L	GE	0
		Manganese, total recoverable	8.8			6.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.030		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	3,300			1,900	1	VY	µg/L	GE	0
		Sodium, total recoverable				2,200	1		µg/L	GE	0
		Sulfate	2,300			1,200	1	Y	µg/L	GE	0
		Total phosphates (as P)				<50	1	Y	µg/L	GE	0
		Uranium, total recoverable				9.9	1	JE	µg/L	GE	0
		Zinc, total recoverable	9.9	4.3		9.5	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00			4.9E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.4E+00			8.5E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 32

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99655.6 E52733.9	33.332210 °N 81.721553 °W	218.1-198.1 ft msl	255.1 ft msl	4" PVC	S	M

SAMPLE DATE	01/10/95	08/25/95	01/23/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.5	224.7	225.0	224.5	ft msl
pH	5.1	4.9	5.4	5.0	pH
Sp. conductance	26	26	20	20	µS/cm
Water temperature	18.9	18.3	24.0	26.0	°C
Alkalinity as CaCO ₃	1	0	4	1	mg/L
Turbidity	1	1	2	2	NTU
Volume purged	20	10	5.7	3.2	well volume
Sampling code					
Synchronous water level	225.6 (03/22/95)	221.9 (08/08/95)	225.0 (03/14/96)	224.2 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	1.3	<1.2	1.3	1	JE	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<0.94	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.9	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			13	1	JE	µg/L	GE	0
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.67	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				4.2	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3	0.55		0.74	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	900			1,200	1	V	µg/L	GE	0
		Sodium, total recoverable				3,300	1		µg/L	GE	0
		Sulfate	1,100			980	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1	J	µg/L	GE	0
		Uranium, total recoverable				10	1	JE	µg/L	GE	1
		Zinc, total recoverable	<3.3	3.8		<3.1	1	V	µg/L	GE	0

Radionuclides

Gross alpha	8.6E-01		1.1E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	1.3E+00		8.2E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	1.0E-01		2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 32B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99676.0 E52742.5	33.332269 °N 81.721570 °W	132.5-127.5 ft msl	255.4 ft msl	2" PVC	V	LL

SAMPLE DATE 01/10/95 08/25/95 01/23/96 08/02/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	210.5	212.4	211.7	211.4	ft msl
pH	5.0	4.9	5.4	4.8	pH
Sp. conductance	21	22	16	22	µS/cm
Water temperature	18.9	19.3	22.0	25.0	°C
Alkalinity as CaCO ₃	1	0	2	1	mg/L
Turbidity	0	0	0	3	NTU
Volume purged	2.2	3.4	2.2	2.2	well volume
Sampling code					
Synchronous water level	212.9 (03/22/95)	212.2 (08/08/95)	212.0 (03/14/96)	211.4 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	4.7	5.5	<3.9	5.0	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	46	<5.0	1.4	2.0	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<1.6	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.2	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<26	1	V	µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.54	1	JE	µg/L	GE	0
		Copper, total recoverable				7.6	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.5			<6.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.035		0.066	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	910			1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				1,400	1	V	µg/L	GE	0
		Sulfate	<1,700			280	1	JE	µg/L	GE	0
		Total phosphates (as P)				190	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	6.7	3.9		<9.3	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00			4.4E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.5E+00			1.3E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			2.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 32C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99684.9 E52746.9	33.332296 °N 81.721576 °W	188.6-183.7 ft msl	255.7 ft msl	2" PVC	V	UL

SAMPLE DATE	01/10/95	08/25/95	01/23/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.8	217.2	216.8	216.4	ft msl
pH	5.4	5.1	5.0	5.2	pH
Sp. conductance	25	25	18	22	µS/cm
Water temperature	20.0	20.0	22.0	26.0	°C
Alkalinity as CaCO ₃	1	1	4	1	mg/L
Turbidity	0	0	0	3	NTU
Volume purged	2.6	2.9	2.8	2.4	well volume
Sampling code					
Synchronous water level	218.0 (03/22/95)	217.1 (08/08/95)	217.1 (03/14/96)	216.5 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.2	6.3	7.4	9.9	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	13	2.2	<2.2	5.8	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<0.82	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.3	<3.2	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			13	1	JE	µg/L	GE	0
		Chloride				2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable			2.0	0.51	1	JE	µg/L	GE	0
		Copper, total recoverable			<4.1	4.0	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.4		2.7	1.9	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				1,100	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	970			2,000	1		µg/L	GE	0
		Sodium, total recoverable			2,000	2,000	1		µg/L	GE	0
		Sulfate	<1,700			150	1	JE	µg/L	GE	0
		Total phosphates (as P)				30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	5.5	7.4	9.0	<4.9	1	V	µg/L	GE	0

Radionuclides

Gross alpha	6.1E-02		2.8E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	1.2E+00		7.7E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	7.0E-01		3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 33

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N98031.0 E51736.3	33.326990 °N 81.721020 °W	228.7-208.7 ft msl	255.9 ft msl	4" PVC	S	M

SAMPLE DATE	01/27/95	09/25/95	02/07/96	07/31/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.2	218.0	217.7	217.2	ft msl
pH	4.9	5.2	4.2	5.8	pH
Sp. conductance	63	69	104	38	µS/cm
Water temperature	18.5	19.0	19.0	24.0	°C
Alkalinity as CaCO ₃	0	1	0	1	mg/L
Turbidity	0	0	1	1	NTU
Volume purged	6.9	6.6	5.1	13	well volume
Sampling code					
Synchronous water level	219.2 (03/23/95)	218.1 (08/08/95)	217.7 (03/14/96)	217.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	<5.0	2.5	3.3	3.6	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.5	<4.6	1.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	2.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.9	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	4.2	2.2	1.9	1.6	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	7.1	4.0	4.2	2.6	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	20		<20	14	1	JE	µg/L	GE	0
		Chloride				5,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	0.84	<1.4	1	V	µg/L	GE	0
		Cobalt, total recoverable			0.39	<0.96	1	V	µg/L	GE	0
		Copper, total recoverable			6.6	<4.5	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		2.1	2.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.022		0.54	1	J	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	3,600			6,500	4	V	µg/L	GE	1
		Sodium, total recoverable			14,000	14,000	1		µg/L	GE	0
		Sulfate	1,800			960	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.4	7.9	5.1	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00			6.5E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	9.7E-01			1.4E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 33A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N98006.7 E51738.0	33.326939 °N 81.720969 °W	88.4-82.8 ft msl	255.4 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/27/95	09/25/95	02/01/96	07/31/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	204.4	205.5	205.4	204.9	ft msl
pH	4.9	5.3	5.0	6.4	pH
Sp. conductance	23	22	24	18	µS/cm
Water temperature	18.3	18.8	18.0	24.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	0	1	2	0	NTU
Volume purged	3.0	2.8	2.2	3.5	well volume
Sampling code					
Synchronous water level	205.8 (03/23/95)	205.5 (08/08/95)	205.5 (03/14/96)	205.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.3	5.0	5.3	3.8	1	V	µg/L	GE	0
		Cyanide	<8.3	97	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.6	1.2	3.4	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	0.85	<10	1.0	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.5	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	1.2	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	20	13	13	9.5	1		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	110			13	1	JE	µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.7	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.93	1	V	µg/L	GE	0
		Copper, total recoverable				<2.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	1.4			<1.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.15	<0.20		<0.20	1	J	µg/L	GE	0
		Nitrate as nitrogen	970						µg/L		
		Nitrate-nitrite as nitrogen	850			1,200	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	
		Sulfate	1,600			500	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.1	6.0		5.6	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.6E+00			7.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	2.8E+00			1.6E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.4E+00			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 33B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97995.9 E51741.9	33.326921 °N 81.720937 °W	126.3-120.7 ft msl	255 ft msl	4" PVC	S	LL

SAMPLE DATE	01/27/95	09/25/95	02/01/96	07/31/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	207.5	208.3	206.2	207.6	ft msl
pH	5.0	5.3	5.4	5.9	pH
Sp. conductance	33	30	30	23	µS/cm
Water temperature	18.1	18.2	19.0	29.0	°C
Alkalinity as CaCO ₃	1	2	1	2	mg/L
Turbidity	1	0	2	1	NTU
Volume purged	3.3	4.2	1.1	6.3	well volume
Sampling code					
Synchronous water level	208.6 (03/23/95)	208.3 (08/08/95)	208.1 (03/14/96)	207.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	<5.0	1.9	2.3	4.5	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	3.7	2.3	1	JE	µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	0.81	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	3.9	<5.0	2.1	1	JE	µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene	7.9	6.9	6.0	5.0	1		µg/L	GE	2	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		■ Trichloroethylene	19	14	10	8.4	1		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	<33			17	1	JE	µg/L	GE	0	
		Chloride				2,500	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<1.6	1	V	µg/L	GE	0	
		Cobalt, total recoverable				<1.6	1	V	µg/L	GE	0	
		Copper, total recoverable				<3.9	1	V	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	<3.3		1.5	<1.7	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.046		<0.20	1	J	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	810			900	1	V	µg/L	GE	0	
		Sodium, total recoverable				4,000	1		µg/L	GE	0	
		Sulfate	2,600			1,700	1		µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	<3.3	<5.0		9.5	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	3.1E-01			4.2E-01	1	UI	pCi/L	GP	0	
		Nonvolatile beta	2.9E-01			5.1E-01	1	UI	pCi/L	GP	0	
		Radium, total alpha-emitting	2.0E-01			1.0E-01	1	UI	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 33C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97984.8 E51746.7	33.326905 °N 81.720903 °W	171.0-165.4 ft msl	255.3 ft msl	4" PVC	S	UL

SAMPLE DATE	01/27/95	09/25/95	02/01/96	08/13/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	210.4	211.4	211.2	210.9	ft msl
pH	4.9	5.2	5.0	4.8	pH
Sp. conductance	46	47	40	50	µS/cm
Water temperature	18.0	18.4	19.0	25.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	0	0	2	1	NTU
Volume purged	3.9	6.0	3.7	7.7	well volume
Sampling code					
Synchronous water level	211.6 (03/23/95)	211.3 (08/08/95)	211.2 (03/14/96)	210.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.7	3.9	3.9	4.4	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.5	1	JE	µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	2.9	1.8	2.0	2.1	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	7.0	5.2	4.9	5.6	1		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				4,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				4.3	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.1			2.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.14		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	2,700			7,500	10	V	µg/L	GE	1
■		Sodium, total recoverable				8,000	1		µg/L	GE	
		Sulfate	1,500			430	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.9		<4.6	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	8.2E-01			6.6E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.1E+00			1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			7.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 34A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104954.9 E50534.9	33.340334 °N 81.737653 °W	118.6-113.6 ft msl	384 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/20/95	09/15/95	01/25/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.8	220.2	219.7	218.4	ft msl
pH	5.6	4.6	4.6	4.9	pH
Sp. conductance	20	24	20	22	µS/cm
Water temperature	19.2	20.4	15.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	1	2	0	0	NTU
Volume purged	2.6	3.0	3.8	4.3	well volume
Sampling code					
Synchronous water level	220.2 (03/22/95)	221.6 (08/08/95)	219.5 (03/11/96)	219.6 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	5.9	4.5	4.4	4.9	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.3	2.2	1.8	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<170	<200	<50	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<170	<200	<50	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<170	<200	<50	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<200	<50	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<1,000	<50	<200	100		µg/L	GE	0
		Tetrachloroethylene	<170	160	48	<200	100		µg/L	GE	0
		1,1,1-Trichloroethane	<170	<200	<50	<200	100		µg/L	GE	0
		■ Trichloroethylene	2,700	3,100	3,100	2,700	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	23			16	1	JE	µg/L	GE	0
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.1	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.69	1	V	µg/L	GE	0
		Copper, total recoverable				0.65	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.8			3.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	920			1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				2,000	1	V	µg/L	GE	0
		Sulfate	1,400			260	1	JE	µg/L	GE	0
		Total phosphates (as P)				60	1		µg/L	GE	0
		Uranium, total recoverable				<25	1	V	µg/L	GE	0
		Zinc, total recoverable	64	29		39	1		µg/L	GE	0
Radionuclides											
		Gross alpha	7.7E-01			2.7E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.4E-01			1.1E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 34B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104944.7 E50534.9	33.340312 °N 81.737633 °W	187.0-182.0 ft msl	384 ft msl	4" PVC	S	UL

SAMPLE DATE 01/12/95 09/15/95 02/09/96 08/03/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	227.5	228.6	228.4	227.6	ft msl
pH	5.2	4.7	4.8	4.9	pH
Sp. conductance	21	28	26	26	µS/cm
Water temperature	20.7	21.1	16.0	26.0	°C
Alkalinity as CaCO ₃	2	1	1	1	mg/L
Turbidity	1	2	1	1	NTU
Volume purged	3.5	4.0	6.1	5.0	well volume
Sampling code					
Synchronous water level	228.2 (03/22/95)	230.4 (08/08/95)	227.9 (03/11/96)	227.6 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.3	6.3	5.8	5.6	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<3.9	3.0	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.7	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	18	21	16	11	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	18	18	17	11	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	30			31	1		µg/L	GE	1
		Chloride				3,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.79	1	V	µg/L	GE	0
		Copper, total recoverable				0.88	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.9	3.1		3.7	1	V	µg/L	GE	0
		Mercury, total recoverable	0.23	0.10		0.28	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	990			1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				2,200	1	V	µg/L	GE	0
		Sulfate	<1,700			160	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1	V	µg/L	GE	0
		Zinc, total recoverable	14	16		13	1		µg/L	GE	0

Radionuclides

		Gross alpha	2.2E+00			1.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.6E+00			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.8E+00			1.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 34C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104934.1 E50535.5	33.340289 °N 81.737611 °W	240.9-220.9 ft msl	383.9 ft msl	4" PVC	S	M

SAMPLE DATE 01/12/95 09/15/95 02/09/96 08/03/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.3	231.4	231.1	230.5	ft msl
pH	4.7	4.5	4.8	4.6	pH
Sp. conductance	21	25	26	22	µS/cm
Water temperature	20.7	22.1	16.0	27.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1	2	1	1	NTU
Volume purged	7.0	3.2	9.5	8.9	well volume
Sampling code					
Synchronous water level	230.8 (03/22/95)	231.4 (08/08/95)	230.7 (03/11/96)	230.4 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	4.1	4.8	4.0	3.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	13	16	16	7.9	1	J	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	0.97	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.2	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<3.3	<10	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<3.3	<10	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<3.3	<10	<2.0	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<3.3	<10	<2.0	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<3.3	<50	<2.0	<10	5		µg/L	GE	0
	■	Tetrachloroethylene	38	35	24	13	5		µg/L	GE	2
		1,1,1-Trichloroethane	<3.3	<10	<2.0	<10	5		µg/L	GE	0
	■	Trichloroethylene	130	76	77	81	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	58			48	1		µg/L	GE	1
		Chloride				1,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.72	1	V	µg/L	GE	0
		Copper, total recoverable				0.80	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.9			3.2	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.046	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,800	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1	V	µg/L	GE	0
		Sulfate	<1,700			240	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<21	1	V	µg/L	GE	0
		Zinc, total recoverable	11	27		13	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.2E+01			2.9E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.6E+00			2.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.5E+00			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 34TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104905.8 E50536.6	33.340229 °N 81.737553 °W	(91.9)-(101.9) ft msl	383.4 ft msl	4" Steel	S	CBA

SAMPLE DATE	01/12/95	08/25/95	01/22/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	203.1	201.6	203.0	202.4	ft msl
pH	6.0	5.8	6.2	6.0	pH
Sp. conductance	26	33	10	30	µS/cm
Water temperature	19.2	19.6	35.0	28.0	°C
Alkalinity as CaCO ₃	8	7	15	5	mg/L
Turbidity	4	3	5	3	NTU
Volume purged	2.5	2.3	3.4	2.2	well volume
Sampling code					
Synchronous water level	204.0 (03/22/95)	199.4 (08/08/95)	203.3 (03/11/96)	203.4 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.8	<2.4	2.7	1	JE	µg/L	GE	0
		Cyanide	<8.3	<20	<10	3.1	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	1.9	<5.0	1.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.0	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	4.3	2.4	3.1	3.2	1		µg/L	GE	1

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.70	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.38	1	JE	µg/L	GE	0
		Copper, total recoverable				2.3	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	13	12		14	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.033		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				990	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	450			1,700	1		µg/L	GE	0
		Sodium, total recoverable				430	1	JE	µg/L	GE	0
		Sulfate	<1,700			<50	1	J	µg/L	GE	0
		Total phosphates (as P)				12	1	JE	µg/L	GE	1
		Uranium, total recoverable				<10	1	V	µg/L	GE	0
		Zinc, total recoverable	9.4	13							

Radionuclides

Gross alpha	6.5E-01		2.9E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	6.5E-01		1.2E+00	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	6.0E-01		1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 35A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102098.0 E50945.2	33.334689 °N 81.731015 °W	128.8-123.2 ft msl	350.9 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/11/95	01/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	217.0		217.3		ft msl
pH	4.9		5.4		pH
Sp. conductance	29		22		µS/cm
Water temperature	19.2		24.0		°C
Alkalinity as CaCO ₃	0		3		mg/L
Turbidity	1		1		NTU
Volume purged	2.8		3.2		well volume
Sampling code					
Synchronous water level	218.3 (03/23/95)		218.2 (03/14/96)		ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.2		4.9				µg/L		
		Cyanide	<8.3		<10				µg/L		
		Lead, total recoverable	<5.0		<5.0				µg/L		
		Nickel, total recoverable	<6.7		<10				µg/L		
		Selenium, total recoverable	<3.3		<5.0				µg/L		
Organics											
		Chlorobenzene	<1.7		<2.0				µg/L		
		1,1-Dichloroethane	<1.7		<2.0				µg/L		
		1,1-Dichloroethylene	<1.7		<2.0				µg/L		
		trans-1,2-Dichloroethylene	<1.7		<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7		<2.0				µg/L		
		Tetrachloroethylene	<1.7		<2.0				µg/L		
		1,1,1-Trichloroethane	<1.7		<2.0				µg/L		
		Trichloroethylene	<1.7		<2.0				µg/L		

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33						µg/L		
		Chloride									
		Chromium, total recoverable	<6.7						µg/L		
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable	<3.3						µg/L		
		Mercury, total recoverable	<0.33						µg/L		
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	830						µg/L		
		Sodium, total recoverable									
		Sulfate	<1,700						µg/L		
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable	4.4						µg/L		
Radionuclides											
		Gross alpha	9.0E-01						pCi/L		
		Nonvolatile beta	1.1E+00						pCi/L		
		Radium, total alpha-emitting	3.0E-01						pCi/L		

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 35B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102110.8 E50947.9	33.334722 °N 81.731032 °W	169.3-163.7 ft msl	351.6 ft msl	4" PVC	S	UL

SAMPLE DATE	01/11/95	08/22/95	01/24/96	07/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.0	223.3	220.5	220.1	ft msl
pH	5.6	5.7	5.4	5.2	pH
Sp. conductance	34	40	34	42	µS/cm
Water temperature	19.2	19.6	24.0	25.0	°C
Alkalinity as CaCO ₃	7	7	9	8	mg/L
Turbidity	0	1	1	2	NTU
Volume purged	4.5	3.8	3.8	2.5	well volume
Sampling code					
Synchronous water level	221.9 (03/23/95)	223.1 (08/08/95)	221.7 (03/14/96)	220.1 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.8	4.1	3.8	4.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	<5.0	<3.6	<2.4	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			35	1	J	µg/L	GE	1
		Chloride				2,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		2.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.2	1	JE	µg/L	GE	0
		Copper, total recoverable				5.2	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			1.3	1	JEV	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	190			320	1	V	µg/L	GE	0
		Sodium, total recoverable				4,200	1	JV	µg/L	GE	0
		Sulfate	1,100			1,600	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	26	26		35	1		µg/L	GE	0

Radionuclides

Gross alpha	3.6E-01		7.5E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	6.6E-01		2.5E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	2.0E-01		1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 35TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102101.6 E50919.6	33.334655 °N 81.731089 °W	38.2-32.9 ft msl	350.3 ft msl	4" CS	S	CBA

SAMPLE DATE	01/11/95	08/22/95	01/23/96	07/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	200.7	201.4	200.2	199.4	ft msl
pH	5.1	5.0	5.2	4.0	pH
Sp. conductance	19	19	12	20	µS/cm
Water temperature	19.3	19.5	24.0	25.0	°C
Alkalinity as CaCO ₃	1	0	2	1	mg/L
Turbidity	4	3	5	8	NTU
Volume purged	2.9	2.5	2.5	2.1	well volume
Sampling code					
Synchronous water level	206.5 (03/23/95)	200.5 (08/08/95)	200.6 (03/14/96)	201.0 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	<5.0	2.9	<3.1	3.1	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	3.2	<7.5	30	3.1	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	3.1	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			49	1	J	µg/L	GE	1
		Chloride				770	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.36	1	JE	µg/L	GE	0
		Copper, total recoverable				5.8	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.1			6.2	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	320			800	1	V	µg/L	GE	0
		Sodium, total recoverable				1,400	1	JV	µg/L	GE	0
		Sulfate	<1,700			200	1	JE	µg/L	GE	0
		Total phosphates (as P)				170	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		4.3	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	4.5E-01			3.6E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.7E-01			3.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 36A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100511.3 E49514.9	33.328846 °N 81.731694 °W	100.5-94.9 ft msl	340.6 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/03/95	09/22/95	02/12/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	211.9	210.6	210.8	209.9	ft msl
pH	4.3	4.2	4.4	8.4	pH
Sp. conductance	41	39	40	880	µS/cm
Water temperature	19.7	20.5	14.0	23.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	3	0	1	NTU
Volume purged	2.3	2.2	2.3	2.3	well volume
Sampling code					
Synchronous water level	211.7 (03/23/95)	213.3 (08/08/95)	210.7 (03/13/96)	210.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	11	11	11	10	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.1	<5.0	5.5	6.5	1	J	µg/L	GE	0
		Nickel, total recoverable	6.1	5.0	7.2	6.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	2.6	3.3	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<20	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<20	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	<20	<10	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	<20	<10	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.3	<100	<10	<10	5		µg/L	GE	0
■		Tetrachloroethylene	77	86	120	95	5		µg/L	GE	2
		1,1,1-Trichloroethane	<8.3	<20	<10	<10	5		µg/L	GE	0
■		Trichloroethylene	1,600	1,700	1,900	1,300	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	61			68	1		µg/L	GE	2
		Chloride	1,700			1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<2.0	1	V	µg/L	GE	0
		Copper, total recoverable		8.4		8.7	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	38			40	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	0.030		0.15	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	400			740	1	JV	µg/L	GE	0
		Sodium, total recoverable	1,800			1,800	1	V	µg/L	GE	0
■		Sulfate	6,400			6,500	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<32	1	V	µg/L	GE	0
		Zinc, total recoverable	15	15		18	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.7E+00			1.9E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.6E+00			2.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			8.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 36B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100514.9 E49526.3	33.328872 °N 81.731671 °W	163.7-158.1 ft msl	340.8 ft msl	4" PVC	S	LL

SAMPLE DATE 01/19/95 09/22/95 02/12/96 08/02/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.4	215.9	216.0	214.8	ft msl
pH	4.7	4.5	4.8	5.4	pH
Sp. conductance	159	162	160	140	µS/cm
Water temperature	18.2	19.3	14.0	23.0	°C
Alkalinity as CaCO ₃	0	0	1	2	mg/L
Turbidity	1	5	2	6	NTU
Volume purged	3.7	4.3	2.8	3.9	well volume
Sampling code					
Synchronous water level	215.9 (03/23/95)	217.2 (08/08/95)	215.4 (03/13/96)	214.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	66	59	52	43	1	V	µg/L	GE	0
		Cyanide	<8.3	99	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.4	<4.5	2.3	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	1.9	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<42	<100	<50	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<42	<100	<50	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	<42	<100	<50	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<100	<50	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<500	<50	<100	50		µg/L	GE	0
		Tetrachloroethylene	<42	<100	<50	<100	50		µg/L	GE	0
		1,1,1-Trichloroethane	<42	<100	<50	<100	50		µg/L	GE	0
■		Trichloroethylene	1,100	1,100	980	830	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
■		Aluminum, total recoverable	120			110	1		µg/L	GE	2
		Chloride	2,700			2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<1.1	1	V	µg/L	GE	0
		Cobalt, total recoverable				<2.0	1	V	µg/L	GE	0
		Copper, total recoverable		9.0		7.3	1		µg/L	GE	0
		Fluoride				20	1	JE	µg/L	GE	0
		Manganese, total recoverable	24			19	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.039		0.18	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	18,000			15,000	10	JV	µg/L	GE	2
■		Sodium, total recoverable	7,300			5,300	1	V	µg/L	GE	0
		Sulfate	1,400			410	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<27	1	V	µg/L	GE	0
		Zinc, total recoverable	30	59		59	1		µg/L	GE	0

Radionuclides

Gross alpha	1.3E+01	5.9E+00	1	pCi/L	GP	0
Nonvolatile beta	9.6E+00	5.2E+00	1	pCi/L	GP	0
Radium, total alpha-emitting	5.6E+00	2.1E+00	1	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 36C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100518.3 E49537.2	33.328897 °N 81.731649 °W	194.2-188.6 ft msl	340.9 ft msl	4" PVC	S	UL

SAMPLE DATE	02/03/95	09/25/95	02/12/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.8	215.9	216.0	214.6	ft msl
pH	4.7			5.8	pH
Sp. conductance	56			40	µS/cm
Water temperature	18.7			21.0	°C
Alkalinity as CaCO ₃	0			5	mg/L
Turbidity	0			2	NTU
Volume purged	9.3			4.9	well volume
Sampling code		P	L		
Synchronous water level	216.0 (03/23/95)	217.2 (08/08/95)	215.5 (03/13/96)	214.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	12			10	1	V	µg/L	GE	0
		Cyanide	<8.3			<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0			<5.0	1	J	µg/L	GE	0
		Nickel, total recoverable	<6.7			0.92	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3			<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<3.3			<4.0	2		µg/L	GE	0
		1,1-Dichloroethane	<3.3			<4.0	2		µg/L	GE	0
		1,1-Dichloroethylene	<3.3			<4.0	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<3.3			<4.0	2		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<3.3			<4.0	2		µg/L	GE	0
		Tetrachloroethylene	2.6			3.2	2	JE	µg/L	GE	1
		1,1,1-Trichloroethane	<3.3			<4.0	2		µg/L	GE	0
■		Trichloroethylene	32			38	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	47			50	1		µg/L	GE	1
■		Chloride	5,300			4,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7			<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<1.5	1	V	µg/L	GE	0
		Copper, total recoverable				9.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.6			5.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33			0.076	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,100			3,000	2	V	µg/L	GE	0
		Sodium, total recoverable	5,900			4,000	1	V	µg/L	GE	0
		Sulfate	<1,700			180	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<35	1	V	µg/L	GE	0
		Zinc, total recoverable	11			12	1		µg/L	GE	0

Radionuclides

		Gross alpha	2.6E+00			2.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.3E+00			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+00			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 36D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100521.7 E49548.3	33.328923 °N 81.731627 °W	249.5-228.8 ft msl	341.6 ft msl	4" PVC	S	M

SAMPLE DATE 02/03/95 09/22/95 02/12/96 08/02/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	237.0	237.9	237.9	237.9	ft msl
pH	6.1	6.0	6.0	6.0	pH
Sp. conductance	36	63	42	52	µS/cm
Water temperature	18.4	25.3	11.0	24.0	°C
Alkalinity as CaCO ₃	9	11	11	6	mg/L
Turbidity	345	501	300	377	NTU
Volume purged	0.75	0.67	0.67	0.34	well volume
Sampling code	X	X	X	X	
Synchronous water level	237.9 (03/23/95)	237.9 (08/08/95)	238.0 (03/13/96)	237.9 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	6.9	7.2	7.1				µg/L		
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	240	180	150				µg/L		
		Nickel, total recoverable	12	5.1	8.8				µg/L		
		Selenium, total recoverable	<3.3	<5.0	2.6				µg/L		
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	1.5	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.5	<2.0	2.4	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	22						µg/L		
		Chloride	2,500			4,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.9					µg/L		
		Cobalt, total recoverable									
		Copper, total recoverable		840					µg/L		
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	110						µg/L		
		Mercury, total recoverable	<0.33	0.12					µg/L		
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	390			930	1	V	µg/L	GE	0
		Sodium, total recoverable	3,100						µg/L		
		Sulfate	<1,700			240	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			40	1	JE	µg/L	GE	0
		Uranium, total recoverable	<33						µg/L		
		Zinc, total recoverable	91	62					µg/L		
Radionuclides											
		Gross alpha	-2.5E-01			1.0E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.9E-02			7.5E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 36TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100507.7 E49503.0	33.328818 °N 81.731719 °W	53.4-48.4 ft msl	340.6 ft msl	4" CS	S	CBA

SAMPLE DATE	02/03/95	08/22/95	02/06/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	192.9	196.1	194.4	195.0	ft msl
pH	5.2	5.0	5.4	6.0	pH
Sp. conductance	25	27	24	34	µS/cm
Water temperature	19.0	19.3	20.0	25.0	°C
Alkalinity as CaCO ₃	2	2	1	0	mg/L
Turbidity	3	2	0	2	NTU
Volume purged	2.5	2.5	2.4	3.3	well volume
Sampling code					
Synchronous water level	196.4 (03/23/95)	195.5 (08/08/95)	195.5 (03/13/96)	195.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.5	5.2	5.5	4.8	1		µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.4	6.5	4.4	4.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.6	2.2	1.5	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	2.7	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride	1,900			1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.75	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable		7.4		8.6	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
■		Manganese, total recoverable	63		42	53	1		µg/L	GE	2
		Mercury, total recoverable	<0.33	0.051		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				330	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	<83			1,500	1		µg/L	GE	0
		Sodium, total recoverable	2,500			2,300	1		µg/L	GE	0
		Sulfate	<83			40	1	JE	µg/L	GE	0
		Total phosphates (as P)	<33			<20	1		µg/L	GE	0
		Uranium, total recoverable	<3.3	89		<3.8	1	V	µg/L	GE	0
		Zinc, total recoverable							µg/L	GE	0

Radionuclides

Gross alpha	5.2E-02		6.3E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	8.9E-01		6.7E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	4.0E-01		3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 37B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105289.5 E51450.0	33.342568 °N 81.735894 °W	142.3-136.7 ft msl	382.7 ft msl	4" PVC	S	MCBC

SAMPLE DATE 01/12/95 09/15/95 01/31/96 08/02/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.2	221.1	220.7	219.2	ft msl
pH	5.7	5.3	5.4	6.0	pH
Sp. conductance	22	25	28	36	µS/cm
Water temperature	20.2	20.5	20.0	21.0	°C
Alkalinity as CaCO ₃	4	5	4	5	mg/L
Turbidity	0	2	1	1	NTU
Volume purged	2.7	3.8	2.6	2.8	well volume
Sampling code					
Synchronous water level	220.7 (03/23/95)	221.5 (08/07/95)	220.5 (03/11/96)	220.3 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	9.0	5.7	6.4	7.5	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	5.1	<5.0	4.8	<5.0	1	J	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	6.0	<10	1		µg/L	GE	0
		Selenium, total recoverable	3.0	<5.7	<3.1	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<3.3	<10	<4.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<3.3	<10	<4.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<3.3	<10	<4.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<3.3	<10	<4.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<3.3	<50	<4.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene	74	55	33	48	1		µg/L	GE	2
		1,1,1-Trichloroethane	<3.3	<10	<4.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene	38	62	36	28	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			12	1	JE	µg/L	GE	0
		Chloride				1,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.38	1	V	µg/L	GE	0
		Copper, total recoverable				3.7	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.0			<1.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.14	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	860			1,100	1	JV	µg/L	GE	0
		Sodium, total recoverable				2,200	1	V	µg/L	GE	0
		Sulfate	<1,700			530	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<30	1	V	µg/L	GE	0
		Zinc, total recoverable	26	17		19	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.7E-01			5.3E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.1E-01			1.3E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	-1.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 37C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105283.2 E51439.8	33.342538 °N 81.735909 °W	180.8-175.2 ft msl	383 ft msl	4" PVC	S	LL

SAMPLE DATE	01/12/95	09/15/95	02/01/96	08/02/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.9	229.9	229.7	229.1	ft msl
pH	5.4	5.1	5.0	5.8	pH
Sp. conductance	25	29	52	30	µS/cm
Water temperature	20.0	20.2	18.0	24.0	°C
Alkalinity as CaCO ₃	4	3	1	3	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	3.0	3.8	2.5	3.9	well volume
Sampling code					
Synchronous water level	229.4 (03/23/95)	230.2 (08/07/95)	229.6 (03/11/96)	229.3 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.6	4.7	4.1	5.1	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.6	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	4.5	5.2	4.8	6.1	1	JEV	µg/L	GE	0
		Selenium, total recoverable	2.2	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	21	19	16	17	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	6.4	3.6	3.9	3.8	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<25	1	V	µg/L	GE	0
		Chloride				3,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.3		1.2	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.81	1	JE	µg/L	GE	0
		Copper, total recoverable				4.8	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	5.6	5.6		<6.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.054		0.078	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	680			660	1	JV	µg/L	GE	0
		Sodium, total recoverable				2,100	1	V	µg/L	GE	0
		Sulfate	<1,700			480	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	9.2	6.1		<8.0	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	6.4E+00			1.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.1E+00			2.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.9E+00			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 37TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105301.3 E51449.8	33.342594 °N 81.735918 °W	35.1-29.8 ft msl	382.3 ft msl	4" CS	S	CBA

SAMPLE DATE	01/19/95	09/15/95	01/31/96	09/04/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	208.2	209.0	207.0	208.4	ft msl
pH	5.8	5.1	5.2	5.2	pH
Sp. conductance	23	27	28	24	µS/cm
Water temperature	18.8	20.0	20.0	28.0	°C
Alkalinity as CaCO ₃	4	4	1	5	mg/L
Turbidity	7	4	4	2	NTU
Volume purged	2.4	2.4	2.4	3.0	well volume
Sampling code					
Synchronous water level	208.8 (03/23/95)	206.9 (08/07/95)	208.1 (03/11/96)	208.5 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Barium, total recoverable	11	10	11	12	1		µg/L	WA	0	
		Cyanide	<8.3	<20	<10	2.5	1	JE	µg/L	WA	0	
		Lead, total recoverable	13	2.7	6.5	18	1	JE	µg/L	WA	0	
		Nickel, total recoverable	<6.7	0.90	1.9	1.2	1	JE	µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<2.9	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<84	<100	<100	<5.0	1		µg/L	WA	0	
		1,1-Dichloroethane	<84	<100	<100	<5.0	1		µg/L	WA	0	
		1,1-Dichloroethylene	<84	<100	<100	<5.0	1		µg/L	WA	0	
		trans-1,2-Dichloroethylene	<84	<100	<100	<100	50		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<84	<500	<100	<5.0	1		µg/L	WA	0	
		Tetrachloroethylene	65	130	110	100	1		µg/L	WA	2	
		1,1,1-Trichloroethane	<84	<100	<100	<5.0	1		µg/L	WA	0	
		Trichloroethylene	1,700	2,900	2,000	2,000	50		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0	
		Chloride				2,400	1	V	µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		1.6	1	JE	µg/L	WA	0	
		Cobalt, total recoverable				1.1	1	JE	µg/L	GE	0	
		Copper, total recoverable				5.7	1		µg/L	GE	0	
		Fluoride				<22	1	V	µg/L	WA	0	
		Manganese, total recoverable	32			18	1	J	µg/L	WA	0	
		Mercury, total recoverable	<0.33	<0.20		0.023	1	JE	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	780			1,500	1	V	µg/L	GE	0	
		Sodium, total recoverable				2,200	1	V	µg/L	WA	0	
		Sulfate	1,300			460	1		µg/L	WA	0	
		Total phosphates (as P)				7.8	1	JE	µg/L	WA	0	
		Uranium, total recoverable				53	1	JE3	µg/L	WA	2	
		Zinc, total recoverable	15	11		19	1	JE	µg/L	WA	0	
		Radionuclides										
		Gross alpha	1.1E+00			1.3E+00	1	J1	pCi/L	TM	0	
		Nonvolatile beta	1.1E+00			2.0E-01	1	UI	pCi/L	TM	0	
		Radium, total alpha-emitting	5.0E-01			4.0E-01	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 38C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102373.1 E49762.0	33.333365 °N 81.734666 °W	169.0-164.3 ft msl	358.8 ft msl	4" PVC	S	LL

SAMPLE DATE 01/20/95 09/20/95 01/23/96 08/06/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.4	220.9	218.6	219.3	ft msl
pH	6.6	6.3	6.4	6.0	pH
Sp. conductance	42	50	49	782	µS/cm
Water temperature	18.7	20.3	19.8	28.0	°C
Alkalinity as CaCO ₃	10	1	17	15	mg/L
Turbidity	1	3	0	3	NTU
Volume purged	3.7	4.0	3.7	1.4	well volume
Sampling code				X	
Synchronous water level	221.1 (03/22/95)	224.3 (08/08/95)	220.2 (03/11/96)	218.8 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	30	29	30	42	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.6	<5.0	2.2	1	JE	µg/L	GE	0

Organics

		Chlorobenzene	<170	<100	<200	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<170	<100	<200	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	<170	<100	<200	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<100	<200	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<500	<200	<100	50		µg/L	GE	0
■		Tetrachloroethylene	3,800	3,100	3,000	2,900	50		µg/L	GE	2
		1,1,1-Trichloroethane	<170	<100	<200	<100	50		µg/L	GE	0
■		Trichloroethylene	4,600	3,900	4,200	3,600	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	32			<57	1	V	µg/L	GE	0
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.92	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.74	1	JE	µg/L	GE	0
		Copper, total recoverable				2.7	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.8			6.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.10	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,800			1,900	2	V	µg/L	GE	0
		Sodium, total recoverable				3,200	1	JV	µg/L	GE	0
		Sulfate	1,300			240	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.8	<4.7		7.5	1		µg/L	GE	0

Radionuclides

		Gross alpha	1.6E+00			1.3E+00	1	UIV	pCi/L	GP	0
		Nonvolatile beta	1.2E+00			1.9E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 39B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100844.6 E48376.9	33.327724 °N 81.735339 °W	149.6-144.0 ft msl	341.8 ft msl	4" PVC	S	LL

SAMPLE DATE	01/26/95	09/25/95	01/23/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	213.9	212.9	211.8	211.7	ft msl
pH	4.2	4.4	4.6	4.6	pH
Sp. conductance	285	274	276	260	µS/cm
Water temperature	18.6	18.8	18.0	21.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	0	0	1	NTU
Volume purged	2.8	3.6	4.1	3.6	well volume
Sampling code					
Synchronous water level	213.4 (03/23/95)	215.5 (08/08/95)	212.3 (03/13/96)	211.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	47	46	48	42	1	V	µg/L	GE	0
		Cyanide	<8.3	1.2	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.4	<10	<4.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<8.4	<10	<4.0	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	11	8.3	11	14	5		µg/L	GE	2
		trans-1,2-Dichloroethylene	<8.4	<10	<4.0	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.4	<50	<4.0	<10	5		µg/L	GE	0
		Tetrachloroethylene	170	150	140	150	5		µg/L	GE	2
		1,1,1-Trichloroethane	<8.4	<10	<4.0	<10	5		µg/L	GE	0
		Trichloroethylene	350	310	310	310	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	98			80	1	V	µg/L	GE	2
		Chloride	4,400			4,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.90	1	JE	µg/L	GE	0
		Copper, total recoverable		<2.9		2.4	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	13			<12	1	V	µg/L	GE	0
		Mercury, total recoverable	0.46	0.38		0.33	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	30,000			28,000	20	V	µg/L	GE	2
		Sodium, total recoverable	37,000			33,000	1	V	µg/L	GE	0
		Sulfate	1,500			<1,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	4.1	6.1		<5.3	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	6.5E+00			8.5E+00	1		pCi/L	GP	1
		Nonvolatile beta	1.9E+01			1.7E+01	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.4E+00			2.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 39C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100852.1 E48386.7	33.327757 °N 81.735328 °W	199.6-194.0 ft msl	341.5 ft msl	4" PVC	S	UL

SAMPLE DATE	01/26/95	09/22/95	01/23/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.8	216.9	215.6	215.7	ft msl
pH	4.3	4.4	4.6	5.0	pH
Sp. conductance	47	47	44	52	µS/cm
Water temperature	18.4	19.5	17.9	21.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1	0	0	1	NTU
Volume purged	6.6	3.6	5.9	3.2	well volume
Sampling code					
Synchronous water level	216.9 (03/23/95)	218.4 (08/08/95)	216.2 (03/13/96)	215.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.7	8.0	8.1	8.1	1	V	µg/L	GE	0
		Cyanide	<8.3	6.7	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	2.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	0.90	<10	<1.5	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	1.9	<4.3	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	3.9	3.2	3.4	1.7	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	34	30	29	31	1		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	68			96	1	V	µg/L	GE	2
		Chloride	3,300			3,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.60	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.81	1	JE	µg/L	GE	0
		Copper, total recoverable		<3.0		8.2	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	5.5			<6.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.090	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	2,700			2,900	2	V	µg/L	GE	0
		Sodium, total recoverable	3,000			2,700	1	V	µg/L	GE	0
		Sulfate	1,600			280	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.4		<11	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	8.4E-01			9.0E-01	1		pCi/L	GP	0
		Nonvolatile beta	7.0E-01			1.2E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			2.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 39D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100858.7 E48396.0	33.327786 °N 81.735316 °W	239.7-219.0 ft msl	341.8 ft msl	4" PVC	S	M

SAMPLE DATE	01/26/95	08/22/95	01/25/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.8	233.4	233.3	232.6	ft msl
pH	4.9	5.0		5.6	pH
Sp. conductance	29	34		40	µS/cm
Water temperature	18.7	19.6		25.0	°C
Alkalinity as CaCO ₃	1	1		1	mg/L
Turbidity	1	3		1	NTU
Volume purged	10	5.4	3.0	7.4	well volume
Sampling code			X		
Synchronous water level	232.8 (03/23/95)	233.2 (08/08/95)	232.9 (03/13/96)	232.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	3.9	4.9	9.3	5.2	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	6.8	<13	210	8.4	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.0	23	2.9	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	1.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	4.4	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	2.5	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33		<110	40	1		µg/L	GE	1
		Chloride	3,500			3,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.6		6.1	1		µg/L	GE	0
		Cobalt, total recoverable				0.23	1	JE	µg/L	GE	0
		Copper, total recoverable		16		30	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.5		16	6.4	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	9.9	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	630		1,000	1,500	1	V	µg/L	GE	0
		Sodium, total recoverable	2,400			2,400	1		µg/L	GE	0
		Sulfate	1,700		270	200	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83			<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	5.6		<5.7	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	3.4E+00		2.0E+00	5.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.1E+00		1.1E+00	2.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.6E+00			2.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 39TA

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N100830.6 E48357.7	33.327662 °N 81.735363 °W	49.7-44.4 ft msl	341.8 ft msl	4" CS	S	CBA

SAMPLE DATE	01/26/95	08/22/95	01/24/96	07/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	193.4	193.9	193.2	192.7	ft msl
pH	4.8	5.1	5.2	5.4	pH
Sp. conductance	20	19	18	28	µS/cm
Water temperature	18.9	19.3	24.0	24.0	°C
Alkalinity as CaCO ₃	0	0	4	0	mg/L
Turbidity	8	8	15	5	NTU
Volume purged	3.2	4.7	2.7	3.6	well volume
Sampling code					
Synchronous water level	194.4 (03/23/95)	193.3 (08/08/95)	193.4 (03/13/96)	193.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	2.8	3.5	2.7	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<14	<3.2	2.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<3.5	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			34	1		µg/L	GE	1
		Chloride	2,600			2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	33	<4.0	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable		7.0		6.7	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	15		16	14	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			210	1	V	µg/L	GE	0
		Sodium, total recoverable	1,400		1,500	1,400	1		µg/L	GE	0
		Sulfate	2,500			1,100	1		µg/L	GE	0
		Total phosphates (as P)	250			30	1	JE	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	10		17	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	7.7E-01			2.3E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	9.5E-01			1.4E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 40A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97672.8 E48279.4	33.320553 °N 81.729426 °W	116.2-110.6 ft msl	321.2 ft msl	4" PVC	S	MCBC

SAMPLE DATE 02/06/95 08/22/95 02/05/96 07/12/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	202.5	204.2	203.1	202.8	ft msl
pH	4.5	4.3		5.0	pH
Sp. conductance	53	54		62	µS/cm
Water temperature	18.8	19.4		25.0	°C
Alkalinity as CaCO ₃	0	0		0	mg/L
Turbidity	1	0		1	NTU
Volume purged	2.5	2.4	1.0	2.6	well volume
Sampling code			X		
Synchronous water level	204.0 (03/23/95)	204.1 (08/08/95)	203.4 (03/13/96)	203.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	18	17	17	18	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<4.4	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	4.5	2.9	2.9	3.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.4	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	80			76	1		µg/L	GE	2
		Chloride	2,100			2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.60	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.8	1	JE	µg/L	GE	0
		Copper, total recoverable		<1.1		2.1	1	JE	µg/L	GE	0
		Fluoride				40	1	JE	µg/L	GE	0
		Manganese, total recoverable	38			40	1		µg/L	GE	1
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			350	1	V	µg/L	GE	0
		Sodium, total recoverable	2,000			2,000	1		µg/L	GE	0
■		Sulfate	12,000			12,000	1		µg/L	GE	0
		Total phosphates (as P)	<83			<50	1	J	µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	20	22		22	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	2.0E+00			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.0E+00			1.0E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 40B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97685.0 E48281.6	33.320584 °N 81.729444 °W	154.7-149.1 ft msl	321.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/19/95	09/22/95	01/25/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	205.3	205.5	204.8	204.5	ft msl
pH	4.7	4.5	4.8	5.2	pH
Sp. conductance	44	53	57	64	µS/cm
Water temperature	18.1	19.9	15.0	24.0	°C
Alkalinity as CaCO ₃	1	0	0	0	mg/L
Turbidity	1	9	1	2	NTU
Volume purged	3.8	5.2	3.8	4.2	well volume
Sampling code					
Synchronous water level	205.7 (03/23/95)	205.7 (08/08/95)	205.2 (03/13/96)	204.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	11	13	13	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.0	<5.0	1.6	1.8	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	0.94	<10	<0.92	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<42	<2.0	<20	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<42	<2.0	<20	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	<42	<2.0	<20	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<42	<2.0	<20	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<42	<10	<20	<100	50		µg/L	GE	0
		Tetrachloroethylene	<42	<2.0	<20	<100	50		µg/L	GE	0
		1,1,1-Trichloroethane	<42	<2.0	<20	<100	50		µg/L	GE	0
■		Trichloroethylene	1,700	1,500	1,600	1,700	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	31			<52	1	V	µg/L	GE	0
		Chloride	2,300			2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.89	1	JE	µg/L	GE	0
		Copper, total recoverable		<10		9.9	1		µg/L	GE	0
		Fluoride				73	1	JE	µg/L	GE	0
		Manganese, total recoverable	15			<16	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.054	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,600			4,800	4	V	µg/L	GE	0
		Sodium, total recoverable	3,600			3,600	1	V	µg/L	GE	0
		Sulfate	2,300			1,300	1		µg/L	GE	0
		Total phosphates (as P)	<83			130	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	17	12		<13	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	2.6E+00			3.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.8E+00			4.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.9E+00			9.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 40C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97697.8 E48283.5	33.320615 °N 81.729464 °W	192.4-186.8 ft msl	322 ft msl	4" PVC	S	UL

SAMPLE DATE	02/06/95	09/22/95	01/26/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	204.8	205.5	204.8	204.5	ft msl
pH	5.5	5.4	5.2	6.0	pH
Sp. conductance	62	57	240	802	µS/cm
Water temperature	19.4	20.9	10.0	23.0	°C
Alkalinity as CaCO ₃	5	5	6	20	mg/L
Turbidity	1	9	2	2	NTU
Volume purged	2.1	4.3	0.76	0.35	well volume
Sampling code			X	X	
Synchronous water level	205.7 (03/23/95)	205.7 (08/08/95)	205.1 (03/13/96)	204.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.5	10	11	15	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.6	4.7	6.5	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.5	3.6	<2.6	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.3	<1.5	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	9.4	5.4	4.2	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	120			140	1	V	µg/L	GE	2
		Chloride	1,700			2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.77		0.96	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.44	1	JE	µg/L	GE	0
		Copper, total recoverable		7.7		10	1		µg/L	GE	0
		Fluoride				1,200	1		µg/L	GE	0
		Manganese, total recoverable	47	41		33	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	310			330	1	V	µg/L	GE	0
		Sodium, total recoverable	2,200			2,500	1	V	µg/L	GE	0
■		Sulfate	10,000			14,000	1		µg/L	GE	0
■		Total phosphates (as P)	1,200			1,700	1		µg/L	GE	0
		Uranium, total recoverable	<33			<20	1		µg/L	GE	0
		Zinc, total recoverable	15	11		<19	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	3.6E-01			1.3E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	7.6E-02			1.3E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	0.0E+00			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 41B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102194.5 E53417.8	33.338940 °N 81.724690 °W	114.2-108.6 ft msl	324 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/03/95	09/20/95	02/12/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	217.3	218.8	218.7	217.5	ft msl
pH	5.8	5.6	5.0	6.8	pH
Sp. conductance	26	25	24	40	µS/cm
Water temperature	18.2	19.1	13.0	21.0	°C
Alkalinity as CaCO ₃	3	2	2	2	mg/L
Turbidity	0	3	0	2	NTU
Volume purged	2.6	3.3	3.4	2.5	well volume
Sampling code					
Synchronous water level	218.8 (03/23/95)	218.8 (08/08/95)	218.7 (03/14/96)	217.9 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.2	10	11	10	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.4	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	9.1	9.7	9.4	4.5	1		µg/L	GE	1
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.3	3.2	2.5	2.4	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.30	1	JE	µg/L	GE	0
		Copper, total recoverable				11	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			2.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.018	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				1,500	1		µg/L	GE	0
		Sulfate	<1,700			110	1	JE	µg/L	GE	0
		Total phosphates (as P)				30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<4.0		8.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.1E+00			2.7E+00	1	UIV	pCi/L	GP	0
		Nonvolatile beta	8.2E-01			1.9E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.4E+00			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 41TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102176.5 E53429.7	33.338920 °N 81.724624 °W	26.7-21.4 ft msl	323.7 ft msl	4" CS	S	CBA

SAMPLE DATE 01/03/95 08/22/95 02/02/96 07/16/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	206.4	207.9	206.7	207.0	ft msl
pH	5.0	4.9	4.8	5.0	pH
Sp. conductance	24	24	26	24	µS/cm
Water temperature	18.6	19.3	18.0	26.0	°C
Alkalinity as CaCO ₃	1	0	5	4	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	2.2	2.3	2.1	2.2	well volume
Sampling code					
Synchronous water level	207.9 (03/23/95)	207.3 (08/08/95)	207.5 (03/14/96)	207.4 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	5.8	6.7	5.6	5.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	8.4	<12	11	10	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.7	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.95		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.75	1	V	µg/L	GE	0
		Copper, total recoverable				10	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	34	38		34	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	0.052		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,000			1,600	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	0
		Sulfate	<1,700			850	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<14	1	V	µg/L	GE	0
		Zinc, total recoverable	<3.3	4.1		4.1	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	6.6E-01			8.9E-01	1		pCi/L	GP	0
		Nonvolatile beta	6.7E-01			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 42B

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104569.8 E51582.8	33.341194 °N 81.734144 °W	166.3-160.7 ft msl	376.4 ft msl	4" PVC	S	LL

SAMPLE DATE 02/07/95 09/18/95 02/08/96 08/05/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	227.1	227.8	227.2	226.1	ft msl
pH	4.6	4.5	4.8	4.8	pH
Sp. conductance	24	24	22	22	µS/cm
Water temperature	19.0	20.5	15.0	27.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	1	0	0	NTU
Volume purged	3.5	3.6	3.8	3.9	well volume
Sampling code					
Synchronous water level	227.0 (03/23/95)	228.3 (08/07/95)	227.0 (03/11/96)	226.7 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.7	3.1	3.7	3.6	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.3	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<8.3	2.1	2.0	2.1	1		µg/L	GE	0
		1,1,1-Trichloroethane	<8.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	38	30	23	23	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.56	1	JE	µg/L	GE	0
		Copper, total recoverable				2.2	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			1.6	1	JE	µg/L	GE	0
		Mercury, total recoverable	0.40	0.24		0.60	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	960			1,500	1	V	µg/L	GE	0
		Sodium, total recoverable				2,200	1		µg/L	GE	0
		Sulfate	<1,700			240	1	JE	µg/L	GE	0
		Total phosphates (as P)				110	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.7E+00			1.9E+00	1	UIV	pCi/L	GP	0
		Nonvolatile beta	6.0E-01			8.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.3E+00			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 42C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104581.9 E51582.8	33.341221 °N 81.734168 °W	204.3-198.7 ft msl	376.4 ft msl	4" PVC	S	UL

SAMPLE DATE	02/07/95	08/25/95	02/13/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.4	228.2	232.6	232.2	ft msl
pH	4.9	5.0	4.2	5.0	pH
Sp. conductance	29	29	30	24	µS/cm
Water temperature	19.2	20.1	20.0	22.0	°C
Alkalinity as CaCO ₃	1	0	0	1	mg/L
Turbidity	0	0	1	3	NTU
Volume purged	4.0	4.8	3.1	3.7	well volume
Sampling code					
Synchronous water level	232.6 (03/23/95)	232.9 (08/07/95)	232.7 (03/11/96)	232.2 (08/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	7.3	6.8	6.7	6.3	1		µg/L	GE	0
		Cyanide	<8.3	<20	<2.7	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.6	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.0	<10	2.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.4	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	2.7	2.7	4.1	3.5	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	21			<20	1	J	µg/L	GE	0
		Chloride				2,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.37	1	V	µg/L	GE	0
		Copper, total recoverable				6.1	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	5.8			4.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.096		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				2,400	1		µg/L	GE	0
		Sulfate	<1,700			290	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				30	1		µg/L	GE	2
		Zinc, total recoverable	<3.3	5.6		3.0	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	3.1E+00			1.4E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	5.9E-01			1.6E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.4E+00			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 42D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104595.2 E51582.5	33.341250 °N 81.734194 °W	247.2-226.6 ft msl	376.4 ft msl	4" PVC	B	M

SAMPLE DATE 02/07/95 09/19/95 02/21/96 08/15/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.0	235.0	234.4	233.9	ft msl
pH	4.5	4.9	4.8	4.8	pH
Sp. conductance	22	22	200	22	µS/cm
Water temperature	18.4	20.9	24.0	21.0	°C
Alkalinity as CaCO ₃	0	0	1	10	mg/L
Turbidity	166	378	93	10	NTU
Volume purged	3.1	2.7	0.39	3.1	well volume
Sampling code					
Synchronous water level	234.2 (03/23/95)	234.4 (08/07/95)	234.4 (03/11/96)	233.6 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	110	30	8.7	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	10	31	8.2	2.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	5.2	10	<4.0	3.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.2	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	8.8	<2.0	7.3	8.4	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	43	<2.0	54	51	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	350			180	1	J	µg/L	GE	2
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	4.3	42		1.9	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				12	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	140			18	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.019		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,200	1	V	µg/L	GE	0
		Sodium, total recoverable				2,000	1		µg/L	GE	0
		Sulfate	<1,700			270	1	JE	µg/L	GE	0
		Total phosphates (as P)				<30	1	V	µg/L	GE	0
		Uranium, total recoverable				53	1		µg/L	GE	2
		Zinc, total recoverable	7.1	<22		6.8	1	J	µg/L	GE	0

Radionuclides

		Gross alpha	5.2E+00			3.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.5E+00			2.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.9E+00			1.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 42TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104545.6 E51581.7	33.341139 °N 81.734100 °W	45.8-40.5 ft msl	376.6 ft msl	4" CS	S	CBA

SAMPLE DATE	02/07/95	09/18/95	02/08/96	08/05/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	207.3	207.6	203.9	205.5	ft msl
pH	5.0	5.0	5.1	5.2	pH
Sp. conductance	20	20	19	18	µS/cm
Water temperature	18.8	20.0	15.0	26.0	°C
Alkalinity as CaCO ₃	1	1	1	0	mg/L
Turbidity	4	4	3	3	NTU
Volume purged	2.3	2.8	3.1	3.1	well volume
Sampling code					
Synchronous water level	207.5 (03/23/95)	205.6 (08/07/95)	206.4 (03/11/96)	207.2 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	3.2	2.9	3.5	3.2	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	8.9	6.3	30	9.1	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.90	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	15	6.1	18	21	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	29	33	34	42	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				1.2	1	JE	µg/L	GE	0
		Copper, total recoverable				6.8	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	19			15	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.76	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	640			1,000	1	V	µg/L	GE	0
		Sodium, total recoverable				1,500	1		µg/L	GE	0
		Sulfate	<1,700			270	1	JE	µg/L	GE	0
		Total phosphates (as P)				40	1	JE	µg/L	GE	0
		Uranium, total recoverable				<7.5	1	V	µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	9.5E-01			1.5E+00	1	UIV	pCi/L	GP	0
		Nonvolatile beta	6.1E-01			1.1E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107275.8 E49281.8	33.343418 °N 81.745469 °W	40.3-35.0 ft msl	357.5 ft msl	4" CS	S	CBA

SAMPLE DATE	01/30/95	08/28/95	02/08/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	204.4	204.8	202.8	203.5	ft msl
pH	4.9	4.8	4.6	4.4	pH
Sp. conductance	18	18	20	20	µS/cm
Water temperature	18.7	19.3	19.0	26.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	10	7	5	28	NTU
Volume purged	4.8	3.6	2.7	2.1	well volume
Sampling code					
Synchronous water level	204.5 (03/22/95)	203.3 (08/07/95)	203.9 (03/11/96)	204.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	1.6	2.2	2.2	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	7.8	7.5	12	11	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	2.2	2.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.1	2.2	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			44	1		µg/L	GE	1
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.48	1	V	µg/L	GE	0
		Copper, total recoverable				33	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	27			23	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.14		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	79			500	1		µg/L	GE	0
		Sodium, total recoverable				1,400	1		µg/L	GE	0
		Sulfate	<1,700			680	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.2		8.7	1		µg/L	GE	0

Radionuclides

Gross alpha	1.8E-01		2.4E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	7.1E-01		7.1E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	1.0E-01		1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 45A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103998.1 E50554.7	33.338252 °N 81.735739 °W	139.2-129.2 ft msl	380.8 ft msl	4" PVC	S	LL

SAMPLE DATE	01/20/95	09/18/95	02/12/96	08/05/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	217.5	217.8	217.5	215.7	ft msl
pH				5.6	pH
Sp. conductance				46	µS/cm
Water temperature				24.0	°C
Alkalinity as CaCO ₃				6	mg/L
Turbidity				1	NTU
Volume purged	0.052	0.34		1.8	well volume
Sampling code	P	P	L		
Synchronous water level	217.9 (03/22/95)	219.5 (08/08/95)	216.7 (03/11/96)	216.7 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable				13	1		µg/L	GE	0
		Cyanide				<10	1		µg/L	GE	0
		Lead, total recoverable				<5.0	1		µg/L	GE	0
		Nickel, total recoverable				<10	1		µg/L	GE	0
		Selenium, total recoverable				2.3	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene				<20	10		µg/L	GE	0
		1,1-Dichloroethane				<20	10		µg/L	GE	0
		1,1-Dichloroethylene				<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene				<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane				<20	10		µg/L	GE	0
	■	Tetrachloroethylene				150	10		µg/L	GE	2
		1,1,1-Trichloroethane				<20	10		µg/L	GE	0
	■	Trichloroethylene				620	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable				<20	1		µg/L	GE	0
		Chloride				3,100	1		µg/L	GE	0
		Chromium, total recoverable				0.89	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.1	1	JE	µg/L	GE	0
		Copper, total recoverable				0.78	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				2.2	1		µg/L	GE	0
		Mercury, total recoverable				0.056	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				1,300	1	V	µg/L	GE	0
		Sodium, total recoverable				3,100	1		µg/L	GE	0
		Sulfate				350	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable				<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha				1.7E+00	1	UIV	pCi/L	GP	0
		Nonvolatile beta				1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting				-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 45B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103987.9 E50555.3	33.338230 °N 81.735718 °W	190.0-180.0 ft msl	380.9 ft msl	4" PVC	S	UL

SAMPLE DATE	01/04/95	08/25/95	02/06/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	227.0	229.5	226.5	226.7	ft msl
pH	5.4	5.0	5.2	5.0	pH
Sp. conductance	36	44	64	44	µS/cm
Water temperature	17.6	19.5	22.0	26.0	°C
Alkalinity as CaCO ₃	2	1	1	1	mg/L
Turbidity	0	0	1	3	NTU
Volume purged	3.9	3.3	2.6	2.9	well volume
Sampling code					
Synchronous water level	227.7 (03/22/95)	229.0 (08/08/95)	226.8 (03/11/96)	226.4 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	<5.0	<0.42	0.14	0.59	1	JEV	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.2	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.91	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.6	2.3	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				1.2	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<1.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.057		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	150			530	1	V	µg/L	GE	0
■		Sodium, total recoverable				6,500	1		µg/L	GE	0
■		Sulfate	5,800			5,900	1		µg/L	GE	0
		Total phosphates (as P)				150	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<6.3	1	V	µg/L	GE	0

Radionuclides

Gross alpha	7.9E-01		8.3E-02	1	UI	pCi/L	GP	0
Nonvolatile beta	5.0E-01		6.4E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	5.0E-01		1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 46A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103098.6 E50548.3	33.336253 °N 81.734006 °W	130.0-120.0 ft msl	372.6 ft msl	4" PVC	S	MCBC

SAMPLE DATE 01/19/95 08/31/95 02/05/96 08/09/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	217.0	219.2	216.4	210.6	ft msl
pH	8.5	7.1	6.4	9.4	pH
Sp. conductance	145	133	120	160	µS/cm
Water temperature	17.9	24.0	25.0	30.0	°C
Alkalinity as CaCO ₃	44	67	40	30	mg/L
Turbidity	1	1	3	4	NTU
Volume purged	0.71	0.72	1.2	0.84	well volume
Sampling code	X	X	X	X	
Synchronous water level	217.0 (03/22/95)	218.4 (08/08/95)	216.3 (03/11/96)	215.7 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	17	17	19	16	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.5	4.4	23	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.89	1.9	11	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.4	<5.0	<2.2	1	V	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	95			620	1	J	µg/L	GE	2
		Chloride				5,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		18	1		µg/L	GE	0
		Cobalt, total recoverable				1.1	1	JE	µg/L	GE	0
		Copper, total recoverable				39	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.4			57	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	0.018		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			2,500	2	JV	µg/L	GE	0
		Sodium, total recoverable				6,900	1		µg/L	GE	0
		Sulfate	11,000			5,000	1		µg/L	GE	0
		Total phosphates (as P)				160	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	5.6		240	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.8E-01			6.1E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	4.0E+00			4.1E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 46C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103098.5 E50548.7	33.336253 °N 81.734005 °W	247.0-237.0 ft msl	372.6 ft msl	2" PVC	B	M

SAMPLE DATE	01/18/95	08/30/95	02/23/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	238.3	240.8	239.1	237.2	ft msl
pH	5.2	5.7	4.2		pH
Sp. conductance	33	38	50		µS/cm
Water temperature	19.9	20.0	20.0		°C
Alkalinity as CaCO ₃	1	6	1		mg/L
Turbidity	378	127	60		NTU
Volume purged	4.6	11	2.9		well volume
Sampling code				D	
Synchronous water level	240.7 (03/22/95)	240.6 (08/08/95)	236.4 (03/11/96)	240.8 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

251 Appendix VIII/254 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	12	18	15				µg/L		
		Cyanide	<8.3	<20	<10				µg/L		
		Lead, total recoverable	8.8	6.2	5.7				µg/L		
		Nickel, total recoverable	4.2	3.2	2.9				µg/L		
		Selenium, total recoverable	<3.3	<5.0	<5.0				µg/L		
Organics											
		Chlorobenzene	<1.7	<200	<2.0				µg/L		
		1,1-Dichloroethane	<1.7	<200	<2.0				µg/L		
		1,1-Dichloroethylene	<1.7	<200	<2.0				µg/L		
		trans-1,2-Dichloroethylene	<1.7	<200	<2.0				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<1,000	<2.0				µg/L		
		Tetrachloroethylene	<1.7	<200	<2.0				µg/L		
		1,1,1-Trichloroethane	<1.7	<200	<2.0				µg/L		
		Trichloroethylene	1.0	<200	<2.0				µg/L		

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	3,400						µg/L		
		Chloride									
		Chromium, total recoverable	5.5	9.0					µg/L		
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable	37						µg/L		
		Mercury, total recoverable	<0.33	<0.20					µg/L		
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,600						µg/L		
		Sodium, total recoverable									
		Sulfate	<1,700						µg/L		
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable	28	30					µg/L		
Radionuclides											
		Gross alpha	1.4E+01						pCi/L		
		Nonvolatile beta	8.3E+00						pCi/L		
		Radium, total alpha-emitting	5.9E+00						pCi/L		

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 47B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106978.5 E52207.2	33.347539 °N 81.737186 °W	171.5-165.9 ft msl	368.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/26/95	09/14/95	01/29/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.7	226.7	228.9	227.4	ft msl
pH	6.1	5.6	5.6	5.4	pH
Sp. conductance	62	74	62	76	µS/cm
Water temperature	17.6	19.0	19.0	25.0	°C
Alkalinity as CaCO ₃	9	8	1	1	mg/L
Turbidity	1	2	1	1	NTU
Volume purged	3.9	4.2	2.1	3.8	well volume
Sampling code					
Synchronous water level	226.3 (03/22/95)	228.8 (08/07/95)	228.9 (03/11/96)	228.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Barium, total recoverable	47	25	19	69	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	<5.0	2.4	1	JE	µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	1.2	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<1.9	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<100	<2.0	<100	50		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<100	<2.0	<100	50		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<100	<2.0	<100	50		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<100	<2.0	<100	50		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<500	<2.0	<100	50		µg/L	GE	0	
		Tetrachloroethylene	2.9	<100	1.8	<100	50		µg/L	GE	0	
		1,1,1-Trichloroethane	<1.7	<100	<2.0	<100	50		µg/L	GE	0	
		■ Trichloroethylene	2,000	2,300	1,900	2,100	50		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla	
		Inorganics										
		Aluminum, total recoverable	62			63	1		µg/L	GE	2	
		■ Chloride				5,700	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0	
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0	
		Copper, total recoverable				2.2	1	JE	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	10			17	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	0.060		0.25	1		µg/L	GE	0	
		Nitrate as nitrogen										
		■ Nitrate-nitrite as nitrogen	3,000			4,300	4	V	µg/L	GE	0	
		■ Sodium, total recoverable				6,300	1	V	µg/L	GE	0	
		Sulfate	1,600			180	1	JE	µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	<3.3	8.5		2.7	1	JE	µg/L	GE	0	
		Radionuclides										
		Gross alpha	6.6E+00			3.6E+00	1		pCi/L	GP	0	
		Nonvolatile beta	4.5E+00			4.1E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	3.9E+00			2.2E+00	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 47C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106969.2 E52195.5	33.347499 °N 81.737199 °W	202.6-197.0 ft msl	369 ft msl	4" PVC	S	UL

SAMPLE DATE	01/26/95	09/14/95	01/29/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.9	233.8	234.2	233.6	ft msl
pH	5.7	5.7	6.2	5.8	pH
Sp. conductance	46	56	54	50	µS/cm
Water temperature	18.0	19.0	19.0	25.0	°C
Alkalinity as CaCO ₃	7	13	1	6	mg/L
Turbidity	1	2	2	0	NTU
Volume purged	6.2	6.0	3.0	6.7	well volume
Sampling code					
Synchronous water level	233.4 (03/22/95)	233.8 (08/07/95)	234.1 (03/11/96)	233.6 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	27	25	32	23	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	3.6	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.8	<1.5	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.7	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<170	<400	<200	<400	200		µg/L	GE	0
		1,1-Dichloroethane	<170	<400	<200	<400	200		µg/L	GE	0
		1,1-Dichloroethylene	<170	<400	<200	<400	200		µg/L	GE	0
		trans-1,2-Dichloroethylene	<170	<400	<200	<400	200		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<170	<2,000	<200	<400	200		µg/L	GE	0
		Tetrachloroethylene	<170	<400	<200	<400	200		µg/L	GE	0
		1,1,1-Trichloroethane	<170	<400	<200	<400	200		µg/L	GE	0
■		Trichloroethylene	11,000	8,800	5,600	4,900	200		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	<33			<39	1	V	µg/L	GE	0
		Chloride				4,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				11	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	15			<16	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.018		0.085	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600			2,000	2	V	µg/L	GE	0
		Sodium, total recoverable				3,800	1	V	µg/L	GE	0
		Sulfate	1,600			240	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.7	5.9		<10	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	2.0E+00			6.7E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.5E+00			1.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.0E-01			2.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 47D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106960.1 E52184.0	33.347460 °N 81.737212 °W	246.1-226.5 ft msl	368.8 ft msl	4" PVC	S	M

SAMPLE DATE	01/03/95	08/24/95	02/06/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.0	234.7	234.7	234.5	ft msl
pH	5.4	4.8	5.2	5.0	pH
Sp. conductance	75	83	70	88	µS/cm
Water temperature	18.0	18.8	19.0	26.0	°C
Alkalinity as CaCO ₃	2	0	1	1	mg/L
Turbidity	1	1	1	11	NTU
Volume purged	13	5.8	3.7	2.5	well volume
Sampling code					
Synchronous water level	234.3 (03/22/95)	234.4 (08/07/95)	234.9 (03/11/96)	234.3 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	28	27	28	28	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.5	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.3	<10	0.91	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.0	1.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	28			<20	1		µg/L	GE	0
		Chloride				8,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				1.6	1	JEV	µg/L	GE	0
		Copper, total recoverable				<3.0	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	28			26	1	V	µg/L	GE	1
		Mercury, total recoverable	0.37	0.38		0.21	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	4,400			5,600	5	V	µg/L	GE	1
		Sodium, total recoverable				11,000	1		µg/L	GE	0
		Sulfate	<1,700			230	1	JE	µg/L	GE	0
		Total phosphates (as P)				230	1		µg/L	GE	0
		Uranium, total recoverable				14	1	JE	µg/L	GE	1
		Zinc, total recoverable	2.1	6.0		3.5	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.0E+01			1.1E+01	1		pCi/L	GP	1
		Nonvolatile beta	3.9E+00			6.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	6.4E+00			4.0E+00	1	V	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 47TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106987.7 E52219.0	33.347578 °N 81.737173 °W	55.1-50.1 ft msl	368.7 ft msl	4" CS	S	CBA

SAMPLE DATE	01/26/95	09/14/95	01/29/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	217.4	218.4	217.6	216.4	ft msl
pH	5.5	5.3	5.8	4.9	pH
Sp. conductance	22	26	24	25	µS/cm
Water temperature	18.3	19.7	21.0	25.0	°C
Alkalinity as CaCO ₃	2	5	1	0	mg/L
Turbidity	21	19	135	13	NTU
Volume purged	2.4	2.2	2.4	3.0	well volume
Sampling code					
Synchronous water level	218.0 (03/22/95)	217.8 (08/07/95)	218.0 (03/11/96)	217.6 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	20	18	20	13	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	5.4	<5.0	1	J	µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	5.3	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<1.7	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<17	<50	<50	<40	20		µg/L	GE	0	
		1,1-Dichloroethane	<17	<50	<50	<40	20		µg/L	GE	0	
		1,1-Dichloroethylene	<17	<50	<50	<40	20		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<17	<50	<50	<40	20		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<17	<250	<50	<40	20		µg/L	GE	0	
		Tetrachloroethylene	<17	<50	<50	<40	20		µg/L	GE	0	
		1,1,1-Trichloroethane	<17	<50	<50	<40	20		µg/L	GE	0	
		■ Trichloroethylene	740	760	570	670	20		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0	
		Chloride				2,000	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0	
		Cobalt, total recoverable				<0.44	1	V	µg/L	GE	0	
		Copper, total recoverable				1.8	1	JE	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	24			16	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.20		0.029	1	JE	µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	1,100			1,500	1	V	µg/L	GE	0	
		Sodium, total recoverable				2,000	1	V	µg/L	GE	0	
		Sulfate	1,500			150	1	JE	µg/L	GE	0	
		Total phosphates (as P)				250	1		µg/L	GE	0	
		Uranium, total recoverable				<25	1	V	µg/L	GE	0	
		Zinc, total recoverable	15	20		6.3	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	2.4E+00			1.2E+00	1		pCi/L	GP	0	
		Nonvolatile beta	2.9E+00			1.4E+00	1	UI	pCi/L	GP	0	
		Radium, total alpha-emitting	1.4E+00			3.0E-01	1	UI	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 48A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107936.6 E54099.8	33.352747 °N 81.734066 °W	129.4-124.7 ft msl	361.6 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/09/95	08/24/95	01/31/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.2	224.5	224.3	222.6	ft msl
pH	6.3	5.6	5.8	5.4	pH
Sp. conductance	26	26	28	24	µS/cm
Water temperature	18.4	19.4	19.0	28.0	°C
Alkalinity as CaCO ₃	4	1	7	4	mg/L
Turbidity	1	2	2	9	NTU
Volume purged	2.7	5.0	2.6	2.2	well volume
Sampling code					
Synchronous water level	223.7 (03/22/95)	224.0 (08/07/95)	224.1 (03/11/96)	223.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	13	11	13	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	2.3	1	JE	µg/L	GE	0
		Lead, total recoverable	3.1	<5.0	1.6	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.1	1.7	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.3	<4.2	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.53	1	V	µg/L	GE	0
		Copper, total recoverable				11	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.5			2.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.039	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,900	1		µg/L	GE	0
		Sodium, total recoverable				1,300	1		µg/L	GE	0
		Sulfate	<1,700			<1,000	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<11	1	V	µg/L	GE	0
		Zinc, total recoverable	26	17		18	1		µg/L	GE	0
Radionuclides											
		Gross alpha	9.4E-01			8.2E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+00			1.3E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 48B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107945.0 E54112.2	33.352786 °N 81.734049 °W	158.3-153.6 ft msl	361.4 ft msl	4" PVC	S	LL

SAMPLE DATE	01/09/95	09/13/95	02/12/96	08/03/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.5	225.6	225.5	224.2	ft msl
pH	6.6	5.8	5.7	5.4	pH
Sp. conductance	35	35	30	30	µS/cm
Water temperature	18.3	19.2	14.0	25.0	°C
Alkalinity as CaCO ₃	7	7	6	5	mg/L
Turbidity	2	4	3	1	NTU
Volume purged	3.4	4.7	5.4	3.7	well volume
Sampling code					
Synchronous water level	225.0 (03/22/95)	225.3 (08/07/95)	225.5 (03/11/96)	225.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	12	9.9	9.7	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.4	1.9	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	3.8	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	1.5	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<17	<10	<10	<10	5		µg/L	GE	0
1,1-Dichloroethane	<17	<10	<10	<10	5		µg/L	GE	0
1,1-Dichloroethylene	<17	<10	<10	<10	5		µg/L	GE	0
trans-1,2-Dichloroethylene	<17	<10	<10	<10	5		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<17	<50	<10	<10	5		µg/L	GE	0
Tetrachloroethylene	<17	<10	<10	<10	5		µg/L	GE	0
1,1,1-Trichloroethane	<17	<10	<10	<10	5		µg/L	GE	0
■ Trichloroethylene	88	84	56	61	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	48			88	1	V	µg/L	GE	2
		Chloride				2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.91	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				1.9	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<4.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.10	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,300			1,400	1	JV	µg/L	GE	0
		Sodium, total recoverable				1,800	1	V	µg/L	GE	0
		Sulfate	<1,700			160	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.7		<5.0	1	V	µg/L	GE	0

Radionuclides

Gross alpha	2.0E+00		1.4E+00	1		pCi/L	GP	0
Nonvolatile beta	1.7E+00		1.4E+00	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	1.2E+00		4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

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WELL MSB 48C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107917.5 E54077.0	33.352668 °N 81.734089 °W	180.2-175.4 ft msl	362.3 ft msl	4" PVC	S	UL

SAMPLE DATE 01/09/95 09/13/95 02/12/96 08/03/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.0	226.1	225.9	224.7	ft msl
pH	7.2	6.5	6.4	6.2	pH
Sp. conductance	55	55	46	42	µS/cm
Water temperature	18.7	19.3	14.0	25.0	°C
Alkalinity as CaCO ₃	14	14	13	8	mg/L
Turbidity	11	21	24	9	NTU
Volume purged	4.7	8.8	11	12	well volume
Sampling code					
Synchronous water level	225.5 (03/22/95)	225.9 (08/07/95)	225.9 (03/11/96)	225.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	16	11	14	13	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.4	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<1.1	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.5	1.8	1.6	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	6.0	6.4	3.4	4.0	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
■		Aluminum, total recoverable	70			110	1	V	µg/L	GE	2
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.1		1.4	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.38	1	JE	µg/L	GE	0
		Copper, total recoverable				2.5	1	JE	µg/L	GE	0
		Fluoride				82	1	JE	µg/L	GE	0
		Manganese, total recoverable	2.0			<2.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.11	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,300			1,800	1	JV3	µg/L	GE	0
		Sodium, total recoverable				2,900	1	V	µg/L	GE	0
		Sulfate	1,400			900	1	JE	µg/L	GE	0
■		Total phosphates (as P)				340	1		µg/L	GE	0
		Uranium, total recoverable				<7.5	1	V	µg/L	GE	0
		Zinc, total recoverable	<3.3	3.8		<3.0	1	V	µg/L	GE	0

Radionuclides

	Gross alpha	2.8E+00		9.1E-01	1	pCi/L	GP	0
	Nonvolatile beta	3.3E+00		3.4E+00	1	pCi/L	GP	0
	Radium, total alpha-emitting	6.0E-01		2.0E-01	1	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 48D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107914.4 E54056.3	33.352627 °N 81.734137 °W	243.5-222.0 ft msl	362.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/10/95	08/24/95	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.0	233.8		248.8	ft msl
pH	9.2				pH
Sp. conductance	206				µS/cm
Water temperature	7.8				°C
Alkalinity as CaCO ₃	52				mg/L
Turbidity	21				NTU
Volume purged	0.55				well volume
Sampling code	X	P		P	
Synchronous water level	233.2 (03/22/95)	233.7 (08/07/95)		248.8 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.8						µg/L		
		Cyanide	<8.3						µg/L		
		Lead, total recoverable	19						µg/L		
		Nickel, total recoverable	<6.7						µg/L		
		Selenium, total recoverable	<3.3						µg/L		
Organics											
		Chlorobenzene	<1.7						µg/L		
		1,1-Dichloroethane	<1.7						µg/L		
		1,1-Dichloroethylene	<1.7						µg/L		
		trans-1,2-Dichloroethylene	<1.7						µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7						µg/L		
		Tetrachloroethylene	<1.7						µg/L		
		1,1,1-Trichloroethane	<1.7						µg/L		
		Trichloroethylene	<1.7						µg/L		

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	470						µg/L		
		Chloride									
		Chromium, total recoverable	5.8						µg/L		
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable	15						µg/L		
		Mercury, total recoverable	<0.33						µg/L		
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	68						µg/L		
		Sodium, total recoverable									
		Sulfate	1,800						µg/L		
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable	7.0						µg/L		
Radionuclides											
		Gross alpha	7.7E+00						pCi/L		
		Nonvolatile beta	7.2E+00						pCi/L		
		Radium, total alpha-emitting	2.0E-01						pCi/L		

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 48TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107925.8 E54089.2	33.352706 °N 81.734073 °W	107.8-102.5 ft msl	361.9 ft msl	4" CS	S	CBA

SAMPLE DATE	01/09/95	08/24/95	01/31/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.1	224.2	224.1	222.5	ft msl
pH	6.4	6.1	6.0	6.0	pH
Sp. conductance	35	37	36	40	µS/cm
Water temperature	19.3	19.4	19.0	25.0	°C
Alkalinity as CaCO ₃	9	1	9	7	mg/L
Turbidity	4	4	10	33	NTU
Volume purged	2.7	3.1	2.4	2.1	well volume
Sampling code					
Synchronous water level	223.5 (03/22/95)	223.7 (08/07/95)	223.9 (03/11/96)	223.6 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	FL
Inorganics											
		Barium, total recoverable	8.2	7.6	7.5	7.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<8.6	1	V	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.1	2.0	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.5	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	FL
Inorganics											
		Aluminum, total recoverable	22			<20	1		µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.8	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.59	1	V	µg/L	GE	0
		Copper, total recoverable				<3.4	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	32			44	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,700	2	V	µg/L	GE	0
		Sodium, total recoverable				2,100	1		µg/L	GE	0
		Sulfate	<1,700			320	1	JE	µg/L	GE	0
		Total phosphates (as P)				100	1		µg/L	GE	0
		Uranium, total recoverable				13	1	JE	µg/L	GE	1
		Zinc, total recoverable	<3.3	4.5		3.4	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	6.0E-01			1.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.3E+00			8.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+00			5.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 49A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99759.0 E45864.6	33.321221 °N 81.739842 °W	76.7-72.0 ft msl	334.7 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/11/95	08/24/95	02/12/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	198.3	198.8	197.9	197.1	ft msl
pH	5.3	5.9	6.8	6.0	pH
Sp. conductance	23	33	100	100	µS/cm
Water temperature	18.9	19.6	20.0	26.0	°C
Alkalinity as CaCO ₃	1	1	10	40	mg/L
Turbidity	1	1	1	2	NTU
Volume purged	2.8	3.7	2.0	2.3	well volume
Sampling code					
Synchronous water level	198.8 (03/22/95)	198.5 (08/07/95)	197.9 (03/12/96)	197.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.0	13	27	37	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	3.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.5	1.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.8	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	1.8	2.5	2.6	2.7	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	22			120	1	J	µg/L	GE	2
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		1.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.1	1	JE	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.7			7.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	420			840	1	V	µg/L	GE	0
		Sodium, total recoverable				2,000	1	JV	µg/L	GE	0
■		Sulfate	2,800			3,200	1		µg/L	GE	0
		Total phosphates (as P)				90	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	5.5	10		3.4	1	JE	µg/L	GE	0

Radionuclides

Gross alpha	2.1E+00		1.2E+00	1		pCi/L	GP	0
Nonvolatile beta	2.2E+00		1.9E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	1.4E+00		6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 49B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99737.8 E45868.2	33.321180 °N 81.739792 °W	116.3-110.7 ft msl	334.1 ft msl	4" PVC	S	LL

SAMPLE DATE	01/11/95	09/12/95	02/20/96	08/13/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	204.2	204.1	203.4	203.4	ft msl
pH	7.5	5.6	5.8	5.8	pH
Sp. conductance	66	61	48	84	µS/cm
Water temperature	18.6	19.4	20.0	22.0	°C
Alkalinity as CaCO ₃	19	7	10	6	mg/L
Turbidity	0	1	1	1	NTU
Volume purged	2.4	3.4	2.1	2.7	well volume
Sampling code					
Synchronous water level	204.4 (03/22/95)	204.7 (08/07/95)	203.4 (03/12/96)	202.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
		Inorganics									
		Barium, total recoverable	23	20	20	22	1		µg/L	WA	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.82	0.82	3.5	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	2.4	1	JE	µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<50	<2.0	<2.0	1		µg/L	GE	0
		■ Tetrachloroethylene	21	32	19	39	5		µg/L	GE	2
		■ 1,1,1-Trichloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		■ Trichloroethylene	150	170	130	160	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
		Inorganics									
		Aluminum, total recoverable	57			40	1		µg/L	GE	1
		Chloride				2,400	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0		2.9	1	JE	µg/L	WA	0
		Cobalt, total recoverable				1.2	1	JE	µg/L	GE	0
		Copper, total recoverable				10	1		µg/L	GE	0
		Fluoride				<17	1	V	µg/L	WA	0
		Manganese, total recoverable	5.8			7.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.11	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		■ Nitrate-nitrite as nitrogen	3,100			4,500	4	V	µg/L	GE	0
		Sodium, total recoverable				4,600	1		µg/L	GE	
		Sulfate	<1,700			1,100	1		µg/L	WA	0
		Total phosphates (as P)				12	1	JE	µg/L	WA	
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.6	6.8		9.8	1	JE	µg/L	WA	0
		Radionuclides									
		Gross alpha	3.5E+00			2.6E+00	1		pCi/L	TM	0
		Nonvolatile beta	2.7E+00			7.3E+00	1		pCi/L	TM	0
		Radium, total alpha-emitting	2.0E+00			1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 49D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99724.9 E45856.4	33.321132 °N 81.739798 °W	236.4-216.7 ft msl	334.3 ft msl	4' PVC	S	M

SAMPLE DATE	01/12/95	08/25/95	02/12/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	229.7	230.5	229.7	229.2	ft msl
pH	5.9	5.8	5.8	5.6	pH
Sp. conductance	28	23	54	26	µS/cm
Water temperature	15.2	21.7	20.0	25.0	°C
Alkalinity as CaCO ₃	5	5	10	10	mg/L
Turbidity	2	8	1	4	NTU
Volume purged	1.8	1.7	0.12	0.12	well volume
Sampling code	X		X	X	
Synchronous water level	229.5 (03/22/95)	230.5 (08/07/95)	229.8 (03/12/96)	229.1 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	9.0	11	8.7	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	5.4	9.5	5.3	4.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	5.2	1.4	1.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.3	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	100			<20	1		µg/L	GE	0
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.7		1.8	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.71	1	V	µg/L	GE	0
		Copper, total recoverable				27	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.9			7.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.027		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	730			1,100	1	V	µg/L	GE	0
		Sodium, total recoverable				1,200	1		µg/L	GE	0
		Sulfate	<1,700			200	1	JE	µg/L	GE	0
		Total phosphates (as P)				70	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	83	25		<23	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	4.1E+00			3.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.4E+00			1.5E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E+00			1.7E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 51B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N96992.7 E52818.0	33.326460 °N 81.716152 °W	160.0-154.4 ft msl	263.2 ft msl	4" PVC	S	LL

SAMPLE DATE	01/06/95	08/25/95	02/09/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	204.9	205.2	205.3	204.6	ft msl
pH	5.8	5.6	4.8	6.0	pH
Sp. conductance	30	31	100	40	µS/cm
Water temperature	17.4	18.1	20.0	25.0	°C
Alkalinity as CaCO ₃	6	5	11	12	mg/L
Turbidity	0	1	1	6	NTU
Volume purged	4.0	4.1	2.5	2.4	well volume
Sampling code					
Synchronous water level	205.6 (03/23/95)	205.1 (08/08/95)	205.2 (03/14/96)	204.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	16	33	23	25	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.1	3.3	1.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.9	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.90	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.2			<4.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.022		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	230			840	1		µg/L	GE	0
		Sodium, total recoverable				1,500	1		µg/L	GE	0
		Sulfate	<1,700			270	1	JE	µg/L	GE	0
		Total phosphates (as P)				30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	4.1		<5.5	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	2.0E+00			1.3E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	3.0E+00			2.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.3E+00			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 52B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103077.7 E53418.4	33.340893 °N 81.726407 °W	171.4-165.8 ft msl	321.7 ft msl	4" PVC	S	LL

SAMPLE DATE	02/01/95	09/20/95	02/12/96	08/13/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.2	220.0	220.8	219.7	ft msl
pH	5.5	5.6	5.4	6.0	pH
Sp. conductance	46	47	44	54	µS/cm
Water temperature	18.2	18.6	13.0	22.0	°C
Alkalinity as CaCO ₃	8	8	9	6	mg/L
Turbidity	2	4	1	2	NTU
Volume purged	4.6	3.8	6.4	2.8	well volume
Sampling code					
Synchronous water level	220.8 (03/23/95)	151.7 (08/08/95)	220.8 (03/14/96)	220.2 (09/17/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.2	8.3	8.2	8.4	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	4.6	2.9	1.5	2.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.8	1	JE	µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	7.3	6.5	4.2	5.8	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	5.5	4.3	3.2	3.6	1		µg/L	GE	1

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	47			75	1		µg/L	GE	2
		Chloride				4,000	1		µg/L	GE	0
		Chromium, total recoverable	4.4	4.2		3.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				2.6	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.7			3.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen	760						µg/L		
		Nitrate-nitrite as nitrogen	790			1,100	1	V	µg/L	GE	0
		Sodium, total recoverable				2,300	1		µg/L	GE	0
		Sulfate	300			260	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	5.4	<13		<3.9	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	1.8E+00			1.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.2E+00			7.6E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 53B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106443.6 E54574.3	33.350222 °N 81.729911 °W	152.3-147.6 ft msl	344.3 ft msl	4" PVC	S	LL

SAMPLE DATE	01/12/95	08/29/95	02/12/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	223.1	224.1	223.7	222.2	ft msl
pH	5.1	5.2	5.4	5.0	pH
Sp. conductance	17	17	20	20	µS/cm
Water temperature	18.0	18.0	18.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	0	0	1	11	NTU
Volume purged	3.0	5.1	2.3	1.4	well volume
Sampling code					
Synchronous water level	223.5 (03/22/95)	223.7 (08/07/95)	224.0 (03/14/96)	223.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	4.2	3.7	5.0	9.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.6	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.85	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.8	1.5	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	1.3	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.67	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.23	1	V	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<2.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				920	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	160			1,900	1		µg/L	GE	0
		Sodium, total recoverable				190	1	JE	µg/L	GE	0
		Sulfate	<1,700			100	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				<11	1	V	µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0					µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00			9.9E-01	1		pCi/L	GP	0
		Nonvolatile beta	6.7E-01			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.0E-01			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 53C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106456.2 E54540.5	33.350194 °N 81.730024 °W	192.6-187.8 ft msl	345.2 ft msl	4" PVC	S	UL

SAMPLE DATE	01/12/95	08/29/95	02/12/96	07/19/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.0	225.0	224.6	223.1	ft msl
pH	5.0	5.1	5.2	5.2	pH
Sp. conductance	23	23	22	26	µS/cm
Water temperature	18.2	18.3	19.0	28.0	°C
Alkalinity as CaCO ₃	1	0	1	2	mg/L
Turbidity	1	0	1	8	NTU
Volume purged	5.1	4.4	3.0	3.4	well volume
Sampling code					
Synchronous water level	224.4 (03/22/95)	224.6 (08/07/95)	224.9 (03/14/96)	224.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.4	3.7	4.4	4.7	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.2	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.90	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.1	3.4	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	1.6	1.8	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	2.9	2.2	1.5	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				1.7	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<1.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				240	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	660			1,500	1		µg/L	GE	0
		Sodium, total recoverable				180	1	JE	µg/L	GE	0
		Sulfate	<1,700			80	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				<7.2	1	V	µg/L	GE	0
		Zinc, total recoverable	3.0	<5.0					µg/L	GE	0
Radionuclides											
		Gross alpha	4.0E+00			7.2E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	2.8E+00			1.4E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	8.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 54B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108446.8 E52970.5	33.352031 °N 81.738033 °W	136.4-130.8 ft msl	373.4 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/04/95	08/24/95	01/31/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.9	223.9	223.9	222.2	ft msl
pH	6.0	5.6	6.0	6.4	pH
Sp. conductance	20	25	20	42	µS/cm
Water temperature	18.5	19.8	24.0	25.0	°C
Alkalinity as CaCO ₃	3	1	6	1	mg/L
Turbidity	1	1	2	1	NTU
Volume purged	2.5	2.5	3.1	3.6	well volume
Sampling code					
Synchronous water level	223.3 (03/22/95)	223.5 (08/07/95)	223.7 (03/11/96)	223.3 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.8	9.5	5.9	5.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.6	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	0.95	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	20			66	1	J	µg/L	GE	2
		Chloride				1,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.0			2.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	900			980	1		µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	0
		Sulfate	<1,700			270	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	4.5		<2.9	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	6.7E+00			1.8E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	1.8E+01			6.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.2E+00			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 54C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108447.4 E52955.7	33.352008 °N 81.738073 °W	175.6-170.0 ft msl	373.4 ft msl	4" PVC	S	LL

SAMPLE DATE	01/05/95	08/24/95	01/31/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.1	228.4	228.6	299.4	ft msl
pH			9.6	9.4	pH
Sp. conductance			80	100	µS/cm
Water temperature			24.0	26.0	°C
Alkalinity as CaCO ₃			51	40	mg/L
Turbidity			208	46	NTU
Volume purged			7.6	2.2	well volume
Sampling code	P	P			
Synchronous water level	227.6 (03/22/95)	228.2 (08/07/95)	228.3 (03/11/96)	227.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable			44	55	1	V	µg/L	GE	0
		Cyanide			<10	<10	1		µg/L	GE	0
		Lead, total recoverable			3.3	1.5	1	JE	µg/L	GE	0
		Nickel, total recoverable			1.2	1.0	1	JE	µg/L	GE	0
		Selenium, total recoverable			<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene			<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane			<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene			<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene			<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane			<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene			<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane			<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene			<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable				360	1	V	µg/L	GE	2
		Chloride				1,400	1		µg/L	GE	0
		Chromium, total recoverable				<4.5	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				3.4	1	V	µg/L	GE	0
		Mercury, total recoverable				<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				1,800	2	V	µg/L	GE	0
		Sodium, total recoverable				2,600	1	V	µg/L	GE	0
		Sulfate				420	1	JE	µg/L	GE	0
		Total phosphates (as P)				270	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable				6.6	1		µg/L	GE	0

Radionuclides

		Gross alpha				3.7E+00	1		pCi/L	GP	0
		Nonvolatile beta				2.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting				1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 54D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108461.5 E52984.5	33.352086 °N 81.738025 °W	244.8-223.8 ft msl	373.6 ft msl	4" PVC	S	UL

SAMPLE DATE	01/04/95	08/24/95	01/30/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.7	234.2	235.0	234.2	ft msl
pH	5.3	4.6	5.6	5.6	pH
Sp. conductance	18	20	18	42	µS/cm
Water temperature	17.9	19.0	25.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	0	mg/L
Turbidity	1	1	3	0	NTU
Volume purged	16	13	7.5	20	well volume
Sampling code					
Synchronous water level	233.7 (03/22/95)	234.0 (08/07/95)	234.6 (03/11/96)	234.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	3.5	3.5	3.5	3.7	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	5.3	6.2	8.9	6.7	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.1	1.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<3.3	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			79	1	J	µg/L	GE	2
		Chloride				730	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.23	1	JE	µg/L	GE	0
		Copper, total recoverable				7.8	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.2			3.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,700	1		µg/L	GE	0
		Sodium, total recoverable				1,400	1		µg/L	GE	0
		Sulfate	<1,700			560	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	4.1		<4.5	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E+00			3.1E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	2.9E+00			2.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.3E+00			1.4E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 54TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108446.3 E52985.8	33.352055 °N 81.737992 °W	80.9-75.3 ft msl	373.5 ft msl	4" CS	S	CBA

SAMPLE DATE	01/04/95	08/24/95	01/30/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.3	221.3	220.9	217.7	ft msl
pH	8.2	7.5	6.2	7.2	pH
Sp. conductance	36	48	38	94	µS/cm
Water temperature	18.8	20.1	23.0	25.0	°C
Alkalinity as CaCO ₃	8	8	14	13	mg/L
Turbidity	4	5	7	5	NTU
Volume purged	3.4	2.9	2.5	2.7	well volume
Sampling code					
Synchronous water level	220.7 (03/22/95)	220.8 (08/07/95)	221.0 (03/11/96)	220.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.2	7.9	8.5	7.9	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<2.0	2.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.0	<5.0	<1.7	1	V	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	27			130	1	J	µg/L	GE	2
		Chloride				1,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.4		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.3			6.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				1,200	1		µg/L	GE	0
		Nitrate-nitrite as nitrogen	860			1,600	1		µg/L	GE	0
		Sodium, total recoverable				320	1	JE	µg/L	GE	0
		Sulfate	<1,700			<50	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				24	1	V	µg/L	GE	0
		Zinc, total recoverable	29	30					µg/L	GE	0
Radionuclides											
		Gross alpha	3.0E-01			4.6E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	7.2E-01			9.5E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 55B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108342.4 E52006.2	33.350225 °N 81.740370 °W	152.7-148.0 ft msl	368.7 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/04/95	08/25/95	01/30/96	07/24/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.7	223.7	223.3	222.0	ft msl
pH	4.2	3.8	4.2	4.0	pH
Sp. conductance	57	62	58	66	µS/cm
Water temperature	18.3	19.3	22.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	1	0	11	NTU
Volume purged	2.9	3.0	3.3	2.4	well volume
Sampling code					
Synchronous water level	223.0 (03/22/95)	223.3 (08/07/95)	223.3 (03/11/96)	223.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	8.2	7.7	7.4	7.4	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	3.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	15	2.6	4.3	1.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.1	<2.1	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	7.7	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	360			390	1	J	µg/L	GE	2
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.63		0.67	1	JE	µg/L	GE	0
		Cobalt, total recoverable				2.0	1	JE	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.5			9.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			230	1	V	µg/L	GE	0
		Sodium, total recoverable				1,700	1		µg/L	GE	0
		Sulfate	9,800			11,000	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	4.0	7.1		<9.0	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	7.7E+00			4.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	5.3E+00			5.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.9E+00			6.9E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 55C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108324.6 E52029.7	33.350224 °N 81.740273 °W	189.3-184.6 ft msl	369.4 ft msl	4" PVC	S	LL

SAMPLE DATE	01/04/95	08/25/95	01/30/96	08/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	229.9	231.1	231.0	230.4	ft msl
pH	5.5	5.0	5.4	4.4	pH
Sp. conductance	23	25	22	24	µS/cm
Water temperature	17.9	19.0	21.0	22.0	°C
Alkalinity as CaCO ₃	1	1	2	4	mg/L
Turbidity	0	1	1	1	NTU
Volume purged	6.0	4.8	3.9	5.4	well volume
Sampling code					
Synchronous water level	230.0 (03/22/95)	230.8 (08/07/95)	230.8 (03/11/96)	230.3 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.8	4.7	4.0	4.5	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.7	2.9	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	0.91	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.0	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	0.060	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016				<0.13	1		µg/L	GE	0
PCB 1221				<0.13	1		µg/L	GE	0
PCB 1232				<0.13	1		µg/L	GE	0
PCB 1242				<0.13	1		µg/L	GE	0
PCB 1248				<0.13	1		µg/L	GE	0
PCB 1254				<0.13	1		µg/L	GE	0
PCB 1260				<0.13	1		µg/L	GE	0
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	0.10	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	0.21	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			22	1	J	µg/L	GE	0
		Chloride				2,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				4.8	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.0			3.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.16	1	JE	µg/L	GE	0
		Nitrate as nitrogen				1,500	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	1,300			2,600	1		µg/L	GE	0
		Sodium, total recoverable				440	1	JE	µg/L	GE	0
		Sulfate	<1,700			<50	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				<5.0	1		µg/L	GE	0
		Zinc, total recoverable	5.5	8.1		<5.0	1		µg/L	GE	0

Radionuclides

Gross alpha	1.1E+00		9.5E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	6.3E-01		1.9E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	6.0E-01		5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 55D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108391.4 E52032.5	33.350377 °N 81.740396 °W	245.9-224.7 ft msl	367.7 ft msl	4" PVC	S	UL

SAMPLE DATE	01/04/95	08/25/95	01/30/96	07/24/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.7	234.3	234.8	234.1	ft msl
pH	5.1	4.8	5.2	4.8	pH
Sp. conductance	17	22	20	24	µS/cm
Water temperature	17.7	19.5	23.0	25.0	°C
Alkalinity as CaCO ₃	10	1	3	1	mg/L
Turbidity	2	5	3	18	NTU
Volume purged	24	13	15	3.9	well volume
Sampling code					
Synchronous water level	233.7 (03/22/95)	234.0 (08/07/95)	234.5 (03/11/96)	234.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	6.9	7.7	7.3	10	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	8.6	18	11	13	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.5	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.5	<1.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<51	1	V	µg/L	GE	0
		Chloride				1,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.0		<2.3	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				8.0	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.0			12	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.043	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600			1,800	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1	V	µg/L	GE	0
		Sulfate	<1,700			180	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.3	16		6.8	1		µg/L	GE	0
Radionuclides											
		Gross alpha	7.2E+00			6.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.7E+00			3.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.8E+00			3.8E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 55HC

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108338.7 E52020.1	33.350240 °N 81.740326 °W	218.8-214.1 ft msl	368.7 ft msl	4" PVC	S	UL

SAMPLE DATE	01/27/95	08/25/95	02/05/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.6	234.0	233.7	233.7	ft msl
pH	12.5	10.7	6.2	10.0	pH
Sp. conductance	807	221	540	120	µS/cm
Water temperature	15.2	25.1	20.0	21.0	°C
Alkalinity as CaCO ₃	245	29	98	22	mg/L
Turbidity	5	16	57	167	NTU
Volume purged	0.70	0.84	0.86	0.86	well volume
Sampling code	X		X	X	
Synchronous water level	233.4 (03/22/95)	233.7 (08/07/95)	234.1 (03/11/96)	233.6 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	660	360	550	400	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	7.6	1.7	5.5	1		µg/L	GE	0
		Nickel, total recoverable	<67	1.3	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.9	<2.5	<3.9	1	V	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	630			560	1	J	µg/L	GE	2
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<67	3.0		4.1	1		µg/L	GE	0
		Cobalt, total recoverable				0.59	1	JE	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<33			11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	620			1,900	1	V	µg/L	GE	0
■		Sodium, total recoverable				7,900	1		µg/L	GE	0
		Sulfate	3,100			1,600	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<33	8.6		<5.2	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	8.6E+00			2.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	5.8E+00			4.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.1E+00			1.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 55TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108322.8 E52014.7	33.350196 °N 81.740309 °W	91.6-86.2 ft msl	368.7 ft msl	4" CS	S	CBA

SAMPLE DATE	01/06/95	08/25/95	01/30/96	07/24/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.0	215.9	215.0	214.4	ft msl
pH	5.7	5.4	5.8	4.8	pH
Sp. conductance	20	23	22	26	µS/cm
Water temperature	18.9	19.5	23.0	24.0	°C
Alkalinity as CaCO ₃	1	1	3	1	mg/L
Turbidity	1	2	1	4	NTU
Volume purged	2.7	2.6	2.8	2.3	well volume
Sampling code					
Synchronous water level	215.4 (03/22/95)	215.1 (08/07/95)	215.4 (03/11/96)	215.2 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Barium, total recoverable	3.8	4.3	4.4	4.8	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.8	2.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.3	0.87	0.99	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.5	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fl
Inorganics											
		Aluminum, total recoverable	<33		25	<45	1	V	µg/L	GE	0
		Chloride				1,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	<1.6	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				<0.96	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	31		32	34	1	V	µg/L	GE	1
		Mercury, total recoverable	<0.33	2.1	<0.10	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				740	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	420		460	1,400	1	V	µg/L	GE	0
		Sodium, total recoverable				1,900	1		µg/L	GE	0
		Sulfate	1,700			<50	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				7.9	1		µg/L	GE	0
		Zinc, total recoverable	5.1	7.3					µg/L	GE	0
Radionuclides											
		Gross alpha	1.2E+00		4.8E-01	8.0E-01	1		pCi/L	GP	0
		Nonvolatile beta	2.2E+00		-4.7E-02	6.7E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 56D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108463.5 E44207.9	33.337755 °N 81.761141 °W	232.4-211.1 ft msl	279.5 ft msl	4" PVC	S	M

SAMPLE DATE	01/05/95	08/25/95	02/08/96	07/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.6	222.0	221.4	221.0	ft msl
pH	5.4	4.4	4.6	4.8	pH
Sp. conductance	17	18	40	20	µS/cm
Water temperature	16.4	18.0	20.0	25.0	°C
Alkalinity as CaCO ₃	2	1	0	0	mg/L
Turbidity	4	2	1	19	NTU
Volume purged	10	9.8	12	3.2	well volume
Sampling code					
Synchronous water level	222.0 (03/22/95)	222.0 (08/07/95)	221.0 (03/11/96)	220.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.9	3.5	3.4	3.3	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	4.6	4.8	<5.3	7.2	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	2.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.7	2.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	34			52	1	J	µg/L	GE	2
		Chloride				2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.65		0.86	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.29	1	JE	µg/L	GE	0
		Copper, total recoverable				16	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.2			3.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.064		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	400			210	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1	JV	µg/L	GE	0
		Sulfate	<1,700			220	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	5.2		3.3	1	JE	µg/L	GE	0

Radionuclides

Gross alpha	5.3E+00		2.3E+00	1		pCi/L	GP	0
Nonvolatile beta	3.2E+00		2.1E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	4.5E+00		1.9E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 65D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101915.5 E49413.7	33.331784 °N 81.734692 °W	243.9-224.4 ft msl	349.2 ft msl	4" PVC	S	M

SAMPLE DATE 01/19/95 09/25/95 01/31/96 08/07/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.5	235.1	234.5	234.2	ft msl
pH	4.3	4.7	4.8	4.0	pH
Sp. conductance	28	25	28	180	µS/cm
Water temperature	16.8	19.8		32.0	°C
Alkalinity as CaCO ₃	1	0	0	1	mg/L
Turbidity	6	1	4	2	NTU
Volume purged	0.15	2.1	0.15	0.47	well volume
Sampling code	X	X	X	X	
Synchronous water level	234.5 (03/22/95)	234.9 (08/08/95)	234.2 (03/14/96)	233.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	8.0	7.2	7.4	7.9	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	18	2.6	6.3	8.4	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.1	1.5	1	JE	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		■ Tetrachloroethylene	67	75	60	39	1		µg/L	GE	2
		1,1,1-Trichloroethane	8.5	<2.0	<2.0	2.6	1		µg/L	GE	0
		■ Trichloroethylene	26	30	26	18	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	65			59	1		µg/L	GE	2
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.42	1	JE	µg/L	GE	0
		Copper, total recoverable				23	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.4			6.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.12	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	880			1,600	1	V	µg/L	GE	0
		Sodium, total recoverable				1,900	1		µg/L	GE	0
		Sulfate	1,600			980	1	JE	µg/L	GE	0
		Total phosphates (as P)				190	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	110	7.7		16	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.0E+00			1.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+00			2.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.3E+00			7.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 66B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105842.0 E51064.6	33.343160 °N 81.737984 °W	143.9-139.2 ft msl	383.4 ft msl	4" PVC	S	LL

SAMPLE DATE 01/11/95 09/14/95 02/09/96 08/08/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.1	220.9	220.2	219.4	ft msl
pH	11.0	8.1	8.6	9.4	pH
Sp. conductance	107	67	74	72	µS/cm
Water temperature	20.3	20.0	16.0	26.0	°C
Alkalinity as CaCO ₃	44	23	27	17	mg/L
Turbidity	1	2	1	0	NTU
Volume purged	2.9	4.0	4.7	4.9	well volume
Sampling code					
Synchronous water level	220.6 (03/22/95)	221.5 (08/07/95)	220.4 (03/11/96)	220.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	31	18	21	19	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<1.2	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	3.5	4.1	2.6	3.7	1		µg/L	GE	1
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	12	27	29	33	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	150			79	1		µg/L	GE	2
		Chloride				1,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.30	1	JE	µg/L	GE	0
		Copper, total recoverable				6.1	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			1.3	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.19	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200			1,700	1	V	µg/L	GE	0
		Sodium, total recoverable				2,100	1		µg/L	GE	0
		Sulfate	<1,700			170	1	JE	µg/L	GE	0
		Total phosphates (as P)				<40	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.9		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.7E-01			7.5E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.8E+00			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			-1.0E-01	1	WJ	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 66C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105842.1 E51053.5	33.343142 °N 81.738014 °W	170.9-166.2 ft msl	383.4 ft msl	4" PVC	S	UL

SAMPLE DATE	01/11/95	09/14/95	02/09/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	229.1	229.8	230.2	229.3	ft msl
pH	5.7	4.8	4.8	5.2	pH
Sp. conductance	25	30	28	30	µS/cm
Water temperature	20.0	20.3	17.0	30.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	1	2	0	0	NTU
Volume purged	3.2	3.6	4.6	4.1	well volume
Sampling code					
Synchronous water level	229.7 (03/22/95)	230.4 (08/07/95)	229.9 (03/11/96)	229.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	7.5	7.2	7.3	7.4	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<2.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<20	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	12	19	14	18	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	290	360	330	310	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.77	1	JE	µg/L	GE	0
		Copper, total recoverable				4.0	1	JEV	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	22			19	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.022	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,900			2,400	2	V	µg/L	GE	0
		Sodium, total recoverable				2,500	1		µg/L	GE	0
		Sulfate	<1,700			170	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	6.5	7.9		12	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.6E+00			1.6E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.6E+00			3.3E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.2E+00			7.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 66TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105842.6 E51096.7	33.343214 °N 81.737901 °W	35.5-30.8 ft msl	382.7 ft msl	4" PVC	S	CBA

SAMPLE DATE	01/11/95	08/29/95	02/05/96	07/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	207.2	208.5	206.0	206.4	ft msl
pH	5.9	5.1	4.8	4.8	pH
Sp. conductance	18	23	24	20	µS/cm
Water temperature	19.1	19.5	18.0	26.0	°C
Alkalinity as CaCO ₃	1	1	3	1	mg/L
Turbidity	0	0	0	2	NTU
Volume purged	2.7	2.4	2.2	2.2	well volume
Sampling code					
Synchronous water level	208.0 (03/22/95)	206.4 (08/07/95)	207.5 (03/11/96)	207.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.4	3.2	3.4	3.4	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.0	1.2	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.0	<1.7	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	5.3	6.4	4.9	6.6	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.6	3.6	3.5	3.5	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			44	1	J	µg/L	GE	1
		Chloride				1,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.88	1	JE	µg/L	GE	0
		Copper, total recoverable				2.1	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	12			12	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	670			1,000	1	V	µg/L	GE	0
		Sodium, total recoverable				1,500	1	JV	µg/L	GE	0
		Sulfate	1,200			1,500	1		µg/L	GE	0
		Total phosphates (as P)				220	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.6	<3.3		6.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	6.5E-01			7.4E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.6E+00			4.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	-1.0E-01			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 67D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106830.7 E51971.5	33.346827 °N 81.737519 °W	241.0-221.5 ft msl	365 ft msl	4" PVC	S	M

SAMPLE DATE	01/30/95	09/15/95	02/13/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.5	234.1	234.7	233.9	ft msl
pH	6.0	5.4	5.5	5.6	pH
Sp. conductance	44	52	44	46	µS/cm
Water temperature	19.0	20.7	19.0	27.0	°C
Alkalinity as CaCO ₃	9	1	8	5	mg/L
Turbidity	0	2	0	0	NTU
Volume purged	4.8	4.3	5.3	7.4	well volume
Sampling code					
Synchronous water level	233.7 (03/22/95)	233.9 (08/07/95)	234.6 (03/12/96)	233.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	D*	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	31	28	31	18	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	8.2	6.7	8.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<84	<400	<400	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<84	<400	<400	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	<84	<400	<400	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<84	<400	<400	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<84	<2,000	<400	<100	50		µg/L	GE	0
		Tetrachloroethylene	<84	<400	<400	<100	50		µg/L	GE	0
		1,1,1-Trichloroethane	<84	<400	<400	<100	50		µg/L	GE	0
■		Trichloroethylene	2,800	3,300	1,800	1,900	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			19	1	JE	µg/L	GE	0
		Chloride				3,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.54	1	JE	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.2			4.6	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600			2,200	2	V	µg/L	GE	0
		Sodium, total recoverable				2,100	1		µg/L	GE	0
		Sulfate	<1,700			230	1	JE	µg/L	GE	0
		Total phosphates (as P)				<40	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	40	42		4.2	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.8E+00			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.3E+00			1.5E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E+00			4.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 68B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106744.9 E52308.5	33.347188 °N 81.736465 °W	133.0-128.3 ft msl	356.9 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/07/95	09/15/95	02/13/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	219.8	221.2	220.9	218.8	ft msl
pH	4.8	4.9	4.7	5.0	pH
Sp. conductance	26	24	23	24	µS/cm
Water temperature	18.4	19.5	18.0	25.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	0	1	0	0	NTU
Volume purged	3.4	2.7	4.3	4.7	well volume
Sampling code					
Synchronous water level	220.8 (03/22/95)	220.9 (08/07/95)	221.0 (03/12/96)	220.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.8	5.3	5.2	4.8	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	0.86	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.8	<5.0	2.4	1	JE	µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<10	<10	<4.0	2		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<10	<10	<4.0	2		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<10	<10	<4.0	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<10	<10	<4.0	2		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<50	<10	<4.0	2		µg/L	GE	0
■		Tetrachloroethylene	12	21	16	18	2		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<10	<10	<4.0	2		µg/L	GE	0
■		Trichloroethylene	110	150	110	120	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	23			15	1	JE	µg/L	GE	0
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.27	1	JE	µg/L	GE	0
		Copper, total recoverable				<1.3	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.4			2.2	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.021	1	JE	µg/L	GE	0
		Nitrate as nitrogen	1,500						µg/L		
		Nitrate-nitrite as nitrogen	1,700			1,600	1	V	µg/L	GE	0
		Sodium, total recoverable				2,000	1		µg/L	GE	0
		Sulfate	350			280	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<2.5	5.8		3.0	1	JE	µg/L	GE	0

Radionuclides

		Gross alpha	2.8E+00			9.7E-01	1		pCi/L	GP	0
		Nonvolatile beta	2.9E+00			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.7E+00			2.0E-01	1	UJI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 68C

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106730.5 E52304.9	33.347150 °N 81.736446 °W	171.7-167.0 ft msl	356.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/30/95	09/15/95	02/13/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.5	226.1	228.4	226.8	ft msl
pH	5.1	4.8	4.4	5.0	pH
Sp. conductance	27	29	30	26	µS/cm
Water temperature	18.6	19.5	18.0	26.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	1	2	0	1	NTU
Volume purged	3.2	4.2	4.6	3.4	well volume
Sampling code					
Synchronous water level	225.8 (03/22/95)	228.6 (08/07/95)	228.7 (03/12/96)	227.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Barium, total recoverable	6.4	5.6	5.6	4.6	1		µg/L	GE	0
		Cyanide	<8.3	<20	<2.2	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.5	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.5	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<17	<50	<40	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<17	<50	<40	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<17	<50	<40	<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<17	<50	<40	<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<250	<40	<20	10		µg/L	GE	0
		Tetrachloroethylene	24	29	<40	<20	10		µg/L	GE	0
		1,1,1-Trichloroethane	<17	<50	<40	<20	10		µg/L	GE	0
		Trichloroethylene	1,100	1,000	640	480	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Aluminum, total recoverable	<33			<20	1		µg/L	GE
		Chloride				1,900	1		µg/L	GE
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE
		Cobalt, total recoverable				0.30	1	JE	µg/L	GE
		Copper, total recoverable				3.7	1	JEV	µg/L	GE
		Fluoride				<100	1		µg/L	GE
		Manganese, total recoverable	4.2			3.1	1		µg/L	GE
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	1,600			2,000	2	V	µg/L	GE
		Sodium, total recoverable				2,200	1		µg/L	GE
		Sulfate	<1,700			180	1	JE	µg/L	GE
		Total phosphates (as P)				<50	1		µg/L	GE
		Uranium, total recoverable				<20	1		µg/L	GE
		Zinc, total recoverable	<3.3	4.2		5.2	1		µg/L	GE
Radionuclides										
		Gross alpha	4.1E+00			1.2E+00	1		pCi/L	GP
		Nonvolatile beta	3.4E+00			3.0E+00	1		pCi/L	GP
		Radium, total alpha-emitting	1.4E+00			1.0E-01	1	UJI	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 69B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107776.1 E52432.9	33.349670 °N 81.738144 °W	144.5-139.8 ft msl	381.5 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/09/95	08/29/95	02/01/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.7	223.0	222.4	220.6	ft msl
pH	6.1	5.9	5.9	5.8	pH
Sp. conductance	26	31	28	34	µS/cm
Water temperature	18.8	19.2	15.0	25.0	°C
Alkalinity as CaCO ₃	4	6	16	5	mg/L
Turbidity	1	0	0	2	NTU
Volume purged	3.0	3.2	3.4	2.3	well volume
Sampling code					
Synchronous water level	222.2 (03/22/95)	222.5 (08/07/95)	222.5 (03/11/96)	222.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	9.1	8.9	10	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.2	1.9	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.6	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	3.8	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				1,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.97	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.51	1	V	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			<3.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	490			820	1		µg/L	GE	0
		Sodium, total recoverable				1,700	1		µg/L	GE	0
		Sulfate	1,100			1,200	1		µg/L	GE	0
		Total phosphates (as P)				150	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<2.9	1	V	µg/L	GE	0

Radionuclides

Gross alpha	1.5E+00		1.5E+00	1	J	pCi/L	GP	0
Nonvolatile beta	2.5E+00		2.3E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	9.0E-01		5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 69C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107780.1 E52447.5	33.349703 °N 81.738113 °W	175.7-171.0 ft msl	381.6 ft msl	4" PVC	S	LL

SAMPLE DATE	01/10/95	09/14/95	02/13/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.0	228.8	229.2	228.4	ft msl
pH	6.4	9.6	5.1	5.4	pH
Sp. conductance	47	64	38	44	µS/cm
Water temperature	14.9	20.2	18.0	25.0	°C
Alkalinity as CaCO ₃	5	6	5	2	mg/L
Turbidity	3	3	0	1	NTU
Volume purged	0.94	1.1	3.6	3.5	well volume
Sampling code	X	X			
Synchronous water level	228.3 (03/22/95)	229.5 (08/07/95)	229.4 (03/11/96)	229.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	15	13	8.8	8.5	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.5	1.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.4	<10	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<8.4	<10	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<8.4	<10	<10	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.4	<10	<10	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.4	<50	<10	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<8.4	<10	<10	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<8.4	<10	<10	<2.0	1		µg/L	GE	0
		Trichloroethylene	96	93	33	34	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	29			<20	1	J	µg/L	GE	0
		Chloride				2,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.71	1	JE	µg/L	GE	0
		Copper, total recoverable				5.4	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	25			12	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,600			2,300	2	JV	µg/L	GE	0
		Sodium, total recoverable				3,800	1		µg/L	GE	0
		Sulfate	<1,700						µg/L	GE	0
		Total phosphates (as P)				30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	12	11		8.6	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.1E-01			1.4E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.6E+00			1.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+00			6.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 69D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107784.3 E52462.0	33.349736 °N 81.738083 °W	239.8-220.3 ft msl	382 ft msl	4" PVC	S	M

SAMPLE DATE	01/09/95	08/29/95	02/01/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.8	234.3	234.9	234.4	ft msl
pH	4.6	4.7	4.4	4.6	pH
Sp. conductance	23	29	24	32	µS/cm
Water temperature	19.2	21.7	15.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	4	2	2	11	NTU
Volume purged	6.2	2.7	3.2	4.4	well volume
Sampling code					
Synchronous water level	234.0 (03/22/95)	234.2 (08/07/95)	234.8 (03/11/96)	234.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	6.6	17	8.1	8.9	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	11	1.6	1.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	24	4.8	3.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.1	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	64			150	1	J	µg/L	GE	2
		Chloride				1,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	42		4.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.3	1	JE	µg/L	GE	0
		Copper, total recoverable				8.9	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.0			8.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,800			2,400	2	V	µg/L	GE	0
		Sodium, total recoverable				1,100	1		µg/L	GE	0
		Sulfate	<1,700			<1,000	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.5	34		<15	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	1.3E+01			1.1E+01	1	J	pCi/L	GP	1
		Nonvolatile beta	4.9E+00			4.9E+00	1		pCi/L	GP	0
■		Radium, total alpha-emitting	8.4E+00			6.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 69TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107772.5 E52418.4	33.349639 °N 81.738175 °W	80.3-74.6 ft msl	381.4 ft msl	4" PVC	S	CBA

SAMPLE DATE	01/09/95	08/29/95	03/19/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.1	217.2	217.3	215.9	ft msl
pH	6.0	5.8	5.6	7.8	pH
Sp. conductance	23	29	48	56	µS/cm
Water temperature	19.2	19.4	20.0	27.0	°C
Alkalinity as CaCO ₃	4	3	71	7	mg/L
Turbidity	28	14	44	8	NTU
Volume purged	3.6	5.0	2.7	2.4	well volume
Sampling code					
Synchronous water level	216.7 (03/22/95)	216.3 (08/07/95)	216.6 (03/11/96)	216.8 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Barium, total recoverable	4.6	9.0	10	6.7	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.9	2.5	2.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.5	<25	4.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.0	0.29	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Fla
Inorganics											
		Aluminum, total recoverable	<33			<20	1	J	µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.5		3.2	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable				8.4	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	7.9			17	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	920			940	1		µg/L	GE	0
		Sodium, total recoverable				2,500	1		µg/L	GE	0
		Sulfate	<1,700			450	1	JE	µg/L	GE	0
		Total phosphates (as P)				<40	1	V	µg/L	GE	0
		Uranium, total recoverable				24	1		µg/L	GE	2
		Zinc, total recoverable	4.4	15		18	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	1.3E+00			6.3E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta	9.9E-01			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 70C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101785.2 E45012.0	33.324308 °N 81.746029 °W	178.8-174.1 ft msl	361.8 ft msl	4" PVC	S	UL

SAMPLE DATE	01/17/95	09/25/95	01/30/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	218.5	218.7	218.7	218.0	ft msl
pH	5.6	5.7	5.3	5.6	pH
Sp. conductance	206	207	170	180	µS/cm
Water temperature	18.7	18.9	15.0	24.0	°C
Alkalinity as CaCO ₃	5	7	13	6	mg/L
Turbidity	0	0	0	1	NTU
Volume purged	3.4	3.5	4.7	4.1	well volume
Sampling code					
Synchronous water level	218.6 (03/22/95)	218.6 (08/07/95)	218.6 (03/12/96)	217.6 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	46	54	41	44	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.7	1.7	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.3	0.96	<10	1		µg/L	GE	0
		Selenium, total recoverable	2.0	1.9	<3.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<17	<20	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<17	<20	<10	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	85	53	84	61	5		µg/L	GE	2
		trans-1,2-Dichloroethylene	<10	<20	<10	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<17	<100	<10	<10	5		µg/L	GE	0
		Tetrachloroethylene	220	310	360	410	5		µg/L	GE	2
		1,1,1-Trichloroethane	25	21	<10	17	5		µg/L	GE	0
		Trichloroethylene	220	620	1,000	1,300	25	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			16	1	JE	µg/L	GE	0
		Chloride				5,300	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.99	1	JE	µg/L	GE	0
		Copper, total recoverable				<1.4	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	17	17		14	1		µg/L	GE	0
		Mercury, total recoverable	0.46	0.57		0.27	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	16,000			19,000	10	V	µg/L	GE	2
		Sodium, total recoverable				21,000	1		µg/L	GE	
		Sulfate	1,300			160	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.3	7.5		5.2	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.3E+00			3.8E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.7E+00			4.0E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	3.1E+00			2.5E+00	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 70D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101781.8 E44997.3	33.324276 °N 81.746061 °W	228.3-208.2 ft msl	362.2 ft msl	4" PVC	S	M

SAMPLE DATE	01/17/95	09/26/95	01/30/96	08/08/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.4	222.2	222.2	221.6	ft msl
pH	4.9	5.0	4.8	6.4	pH
Sp. conductance	44	41	40	50	µS/cm
Water temperature	17.0	22.6	15.0	21.0	°C
Alkalinity as CaCO ₃	1	1	1	4	mg/L
Turbidity	19	44	4	23	NTU
Volume purged	0.46	0.33	6.8	1.0	well volume
Sampling code	X	X		X	
Synchronous water level	222.1 (03/22/95)	222.0 (08/07/95)	222.2 (03/12/96)	221.3 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	7.5	20	9.7	8.0	1		µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	4.3	1.3	1.5	1	JE	µg/L	GE	0	
		Nickel, total recoverable	<6.7	2.8	1.5	1.2	1	JE	µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<2.6	2.0	1	JE	µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene	1.9	<2.0	3.1	1.2	1	JE	µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene	7.4	4.6	10	6.7	1		µg/L	GE	2	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	95			190	1		µg/L	GE	2	
		Chloride				2,100	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	4.7		2.6	1	JE	µg/L	GE	0	
		Cobalt, total recoverable				0.33	1	JE	µg/L	GE	0	
		Copper, total recoverable				22	1	V	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	7.9			7.0	1		µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.040		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	2,100			2,900	2	V	µg/L	GE	0	
		Sodium, total recoverable				3,000	1		µg/L	GE	0	
		Sulfate	1,300			210	1	JE	µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	8.1	20		16	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	8.4E+00			7.8E+00	1		pCi/L	GP	1	
		Nonvolatile beta	8.6E+00			5.6E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	4.7E+00			1.6E+00	1	J	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 71B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103801.6 E44054.7	33.327201 °N 81.752472 °W	135.9-131.1 ft msl	344.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/13/95	08/30/95	02/13/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	217.8	218.2	217.9	217.6	ft msl
pH	11.4	11.8	9.8	6.8	pH
Sp. conductance	457	1946	102	86	µS/cm
Water temperature	20.3	18.8	16.0	26.0	°C
Alkalinity as CaCO ₃	190	299	54	30	mg/L
Turbidity	251	8	623	240	NTU
Volume purged	1.0	1.0	3.5	2.6	well volume
Sampling code	X	X			
Synchronous water level	217.9 (03/22/95)	218.2 (08/07/95)	218.2 (03/12/96)	217.0 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	86	150	28	28	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	11	2.3	3.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	6.4	<5.0	<5.0	<5.0	1		µg/L	GE	0

Organics

		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	1.4	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	1,000			130	1	J	µg/L	GE	2
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	5.6	20		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	24			3.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	220			1,000	1	V	µg/L	GE	0
		Sodium, total recoverable				2,100	1		µg/L	GE	0
		Sulfate	2,200			200	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	72	3.4		<4.3	1	V	µg/L	GE	0

Radionuclides

		Gross alpha	8.7E+00			1.2E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	7.8E+00			1.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.4E+00			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 72B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N96387.6 E48350.3	33.317828 °N 81.726740 °W	156.7-152.0 ft msl	328.2 ft msl	4" PVC	S	LL

SAMPLE DATE	01/18/95	08/29/95	02/09/96	08/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	200.2	200.7	200.5	199.7	ft msl
pH	6.6	6.4	6.0	5.4	pH
Sp. conductance	47	56	100	32	µS/cm
Water temperature	18.4	18.8	20.0	21.0	°C
Alkalinity as CaCO ₃	7	20	10	24	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	3.2	4.2	4.1	5.8	well volume
Sampling code					
Synchronous water level	200.8 (03/23/95)	200.6 (08/08/95)	200.4 (03/13/96)	199.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	17	17	26	16	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.0	1.6	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	0.91	<10	1.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.5	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016				<0.13	1		µg/L	GE	0
		PCB 1221				<0.13	1		µg/L	GE	0
		PCB 1232				<0.13	1		µg/L	GE	0
		PCB 1242				<0.13	1		µg/L	GE	0
		PCB 1248				<0.13	1		µg/L	GE	0
		PCB 1254				<0.13	1		µg/L	GE	0
		PCB 1260				<0.13	1		µg/L	GE	0
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<0.050	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	53			91	1	J	µg/L	GE	2
		Chloride				2,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.39	1	JE	µg/L	GE	0
		Copper, total recoverable				1.5	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	10			8.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.12	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	330			470	1	V	µg/L	GE	0
		Sodium, total recoverable				1,700	1		µg/L	GE	0
		Sulfate	1,100			930	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.4	<4.4		<3.6	1	V	µg/L	GE	0
		Radionuclides									
		Gross alpha	9.7E-01			1.1E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	4.4E-01			9.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 73B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99270.3 E45694.0	33.319862 °N 81.739341 °W	135.5-130.8 ft msl	339.6 ft msl	4" PVC	S	LL

SAMPLE DATE	01/17/95	09/12/95	02/13/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	202.7	202.8	202.3	201.9	ft msl
pH	4.6	4.4	5.0	5.0	pH
Sp. conductance	32	38	36	46	µS/cm
Water temperature	19.0	19.2	18.0	22.0	°C
Alkalinity as CaCO ₃	0	0	1	0	mg/L
Turbidity	1	1	1	2	NTU
Volume purged	3.1	4.2	3.9	3.0	well volume
Sampling code					
Synchronous water level	203.0 (03/22/95)	203.1 (08/07/95)	202.4 (03/12/96)	201.5 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.6	9.2	9.7	11	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.0	1.4	1.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	1.4	<5.0	<2.0	1	V	µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene	3.3	6.4	4.4	5.7	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	44	59	34	39	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	59			54	1	J	µg/L	GE	2
		Chloride				2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		0.97	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.7	1	JE	µg/L	GE	0
		Copper, total recoverable				1.8	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	9.5			9.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.25		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,300			1,800	1	V	µg/L	GE	0
■		Sodium, total recoverable				2,200	1		µg/L	GE	0
		Sulfate	3,800			3,100	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.0	6.6		6.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	8.9E-01			2.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.3E+00			1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	8.0E-01			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 74B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99197.4 E50443.2	33.327457 °N 81.726694 °W	147.5-142.8 ft msl	314.5 ft msl	4" PVC	S	LL

SAMPLE DATE	01/25/95	09/25/95	02/07/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	211.6	212.3	211.5	211.0	ft msl
pH	6.9	6.3	6.6	6.8	pH
Sp. conductance	38	37	48	48	µS/cm
Water temperature	17.7	18.4	19.0	21.0	°C
Alkalinity as CaCO ₃	11	8	10	10	mg/L
Turbidity	1	0	1	3	NTU
Volume purged	3.1	5.4	2.3	2.7	well volume
Sampling code					
Synchronous water level	212.1 (03/23/95)	212.2 (08/08/95)	211.6 (03/14/96)	210.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	36	33	34	33	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<17	<50	<20	<40	20		µg/L	GE	0	
		1,1-Dichloroethane	<17	<50	<20	<40	20		µg/L	GE	0	
		1,1-Dichloroethylene	<17	<50	<20	<40	20		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<17	<50	<20	<40	20		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<17	<250	<20	<40	20		µg/L	GE	0	
		Tetrachloroethylene	<17	<50	<20	<40	20		µg/L	GE	0	
		1,1,1-Trichloroethane	<17	<50	<20	<40	20		µg/L	GE	0	
		Trichloroethylene	730	620	590	570	20		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	23			<20	1	J	µg/L	GE	0	
		Chloride				1,800	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		0.76	1	JE	µg/L	GE	0	
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0	
		Copper, total recoverable				2.1	1	JE	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	4.5			6.2	1	V	µg/L	GE	0	
		Mercury, total recoverable	<0.33	<0.090		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	710			920	1	JV	µg/L	GE	0	
		Sodium, total recoverable				2,100	1		µg/L	GE	0	
		Sulfate	2,500			1,500	1		µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	<3.3	10		4.0	1	JE	µg/L	GE	0	
		Radionuclides										
		Gross alpha	4.5E-01			6.9E-01	1	J	pCi/L	GP	0	
		Nonvolatile beta	9.2E-01			8.9E-01	1	UJI	pCi/L	GP	0	
		Radium, total alpha-emitting	9.0E-01			3.0E-01	1	UI	pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 74C

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99191.1 E50457.1	33.327466 °N 81.726645 °W	177.8-173.1 ft msl	315 ft msl	4" PVC	S	UL

SAMPLE DATE	01/19/95	09/26/95	02/08/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	210.6	211.7	211.3	211.0	ft msl
pH	10.7	9.9	5.2	9.4	pH
Sp. conductance	403	167	200	120	µS/cm
Water temperature	16.9	19.0	10.0	25.0	°C
Alkalinity as CaCO ₃	123	38	38	32	mg/L
Turbidity	6	30	8	8	NTU
Volume purged	0.85	0.71	0.80	0.77	well volume
Sampling code	X	X	X	X	
Synchronous water level	212.0 (03/23/95)	212.1 (08/08/95)	211.5 (03/14/96)	210.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	39	170	74	78	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	8.8	3.6	1.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	3.8	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	48	8.6	7.0	6.5	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	160			50	1	J	µg/L	GE	2
		Chloride									
		Chromium, total recoverable	<6.7	1.7		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				7.0	1		µg/L	GE	0
		Fluoride									
		Manganese, total recoverable	3.2			7.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	<83			430	1	V	µg/L	GE	0
■		Sodium, total recoverable				4,600	1		µg/L	GE	0
■		Sulfate	11,000			14,000	1		µg/L	GE	0
		Total phosphates (as P)				40	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	6.9	33		9.9	1		µg/L	GE	0

Radionuclides

Gross alpha	9.1E-01	7.9E-01	1	J	pCi/L	GP	0
Nonvolatile beta	8.2E+00	3.2E+00	1	J	pCi/L	GP	0
Radium, total alpha-emitting	2.0E-01	3.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 74D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99185.3 E50469.7	33.327473 °N 81.726601 °W	237.1-217.1 ft msl	315.1 ft msl	4" PVC	S	M

SAMPLE DATE	01/19/95	09/26/95	02/07/96	07/24/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	231.5	233.8	232.9	232.2	ft msl
pH	5.7	8.4	6.2	5.4	pH
Sp. conductance	67	45	58	40	µS/cm
Water temperature	16.6	18.3	20.0	26.0	°C
Alkalinity as CaCO ₃	20	4	10	10	mg/L
Turbidity	6	8	7	98	NTU
Volume purged	0.84	0.82	4.3	0.30	well volume
Sampling code	X	X	X	X	
Synchronous water level	231.3 (03/23/95)	233.9 (08/08/95)	232.6 (03/14/96)	232.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	11	8.9	10	18	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	6.7	12	33	31	1		µg/L	GE	1	
		Nickel, total recoverable	<6.7	1.6	3.4	3.9	1	JE	µg/L	GE	0	
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene	3.3	<2.0	11	5.5	1		µg/L	GE	2	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		Trichloroethylene	2.4	<2.0	19	8.2	1		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	75			560	1	V	µg/L	GE	2	
		Chloride				2,000	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	1.8		<9.0	1	V	µg/L	GE	0	
		Cobalt, total recoverable				<1.1	1	V	µg/L	GE	0	
		Copper, total recoverable				200	1	V	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	18			28	1	V	µg/L	GE	1	
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	910			1,900	1	V	µg/L	GE	0	
		Sodium, total recoverable				4,500	1	V	µg/L	GE	0	
		Sulfate	2,000			460	1	JE	µg/L	GE	0	
		Total phosphates (as P)				80	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	53	27		61	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	7.4E-01			2.3E+00	1		pCi/L	GP	0	
		Nonvolatile beta	3.6E+00			2.3E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	4.0E-01			8.0E-01	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 75B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N98937.4 E48875.5	33.324322 °N 81.730317 °W	161.7-156.9 ft msl	326.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/20/95	09/22/95	01/25/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	210.9	210.8	210.1	209.9	ft msl
pH	6.2	5.1	5.4	6.0	pH
Sp. conductance	61	48	50	56	µS/cm
Water temperature	18.6	19.8	14.0	21.0	°C
Alkalinity as CaCO ₃	11	3	9	13	mg/L
Turbidity	7	15	6	18	NTU
Volume purged	3.1	3.2	4.0	4.3	well volume
Sampling code					
Synchronous water level	211.5 (03/23/95)	211.5 (08/08/95)	210.4 (03/14/96)	209.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	24	28	32	35	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	2.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.3	<10	2.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.4	<20	<4.0	<20	10		µg/L	GE	0
		1,1-Dichloroethane	<8.4	<20	<4.0	<20	10		µg/L	GE	0
		1,1-Dichloroethylene	<8.4	<20	<4.0	<20	10		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.4	<20	<4.0	<20	10		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<8.4	<100	<4.0	<20	10		µg/L	GE	0
		Tetrachloroethylene	<8.4	<20	<4.0	<20	10		µg/L	GE	0
		1,1,1-Trichloroethane	<8.4	<20	<4.0	<20	10		µg/L	GE	0
■		Trichloroethylene	1,100	1,300	1,200	1,200	20		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	44			440	1	J	µg/L	GE	2
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.1		2.5	1	JE	µg/L	GE	0
		Cobalt, total recoverable				3.3	1	JE	µg/L	GE	0
		Copper, total recoverable				9.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
■		Manganese, total recoverable	27	56		76	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,400			3,200	4	JV	µg/L	GE	0
		Sodium, total recoverable				2,900	1		µg/L	GE	0
		Sulfate	3,000			1,500	1		µg/L	GE	0
		Total phosphates (as P)				70	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.0	8.4		10	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.5E+00			2.4E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	2.4E+00			3.0E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+00			1.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 75C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N98942.3 E48859.7	33.324307 °N 81.730368 °W	193.5-188.8 ft msl	327.5 ft msl	4" PVC	S	UL

SAMPLE DATE	01/19/95	08/29/95	02/07/96	07/23/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	209.1	211.6	210.0	209.7	ft msl
pH	5.1	5.5	4.0	5.0	pH
Sp. conductance	84	66	400	56	µS/cm
Water temperature	16.9	18.0	19.0	28.0	°C
Alkalinity as CaCO ₃	8	5	20	3	mg/L
Turbidity	6	13	21	18	NTU
Volume purged	0.53	0.47	0.072	0.15	well volume
Sampling code	X	X	X	X	
Synchronous water level	210.9 (03/23/95)	211.2 (08/08/95)	210.2 (03/14/96)	209.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	18	18	19	18	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1	J	µg/L	GE	0	
		Lead, total recoverable	8.0	20	15	30	1		µg/L	GE	1	
		Nickel, total recoverable	<6.7	3.3	4.0	3.2	1	JE	µg/L	GE	0	
		Selenium, total recoverable	<3.3	<4.7	5.2	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	28			100	1	J	µg/L	GE	2	
		Chloride				1,800	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0	
		Cobalt, total recoverable				1.8	1	JE	µg/L	GE	0	
		Copper, total recoverable				770	1		µg/L	GE	1	
		Fluoride				23	1	JE	µg/L	GE	0	
		Manganese, total recoverable	36			39	1	V	µg/L	GE	1	
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	<83			260	1	V	µg/L	GE	0	
		Sodium, total recoverable				5,800	1	JV	µg/L	GE	0	
		Sulfate	14,000			13,000	1		µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	12	22		34	1		µg/L	GE	0	
		Radionuclides										
		Gross alpha	3.7E-01			1.2E+00	1		pCi/L	GP	0	
		Nonvolatile beta	3.8E+00			3.2E+00	1		pCi/L	GP	0	
		Radium, total alpha-emitting	2.0E-01			1.1E+00	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 76C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103061.6 E45344.0	33.327671 °N 81.747638 °W	186.0-181.3 ft msl	352.4 ft msl	4" PVC	S	UL

SAMPLE DATE	01/19/95	09/11/95	01/30/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.7	221.7	221.8	221.3	ft msl
pH	6.4	6.2	6.0	7.6	pH
Sp. conductance	52	54	46	180	µS/cm
Water temperature	18.4	19.3	14.0	25.0	°C
Alkalinity as CaCO ₃	16	15	15	98	mg/L
Turbidity	6	3	2	11	NTU
Volume purged	3.4	4.0	3.5	0.69	well volume
Sampling code				X	
Synchronous water level	221.7 (03/22/95)	221.8 (08/07/95)	221.8 (03/12/96)	220.9 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	14	14	12	24	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	4.3	2.1	9.2	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	2.2	3.7	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<3.6	<5.0	1		µg/L	GE	0
Organics											
●		Chlorobenzene	<420	<500	<1,000	<200	100	J1	µg/L	GE	0
●		1,1-Dichloroethane	<420	<500	<1,000	<200	100	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<420	<500	<1,000	<200	100	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<420	<500	<1,000	<200	100	J1	µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<420	<2,500	<1,000	<200	100	J1	µg/L	GE	0
●		Tetrachloroethylene	<420	<500	<1,000	<200	100	J1	µg/L	GE	0
●		1,1,1-Trichloroethane	<420	<500	<1,000	<200	100	J1	µg/L	GE	0
● ■		Trichloroethylene	12,000	12,000	5,700	5,600	100	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	130			430	1	J	µg/L	GE	2
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		2.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				3.7	1	JE	µg/L	GE	0
		Fluoride				43	1	JE	µg/L	GE	0
		Manganese, total recoverable	3.3			4.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.091		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600			980	1	JV	µg/L	GE	0
■		Sodium, total recoverable				27,000	1		µg/L	GE	0
■		Sulfate	1,800			3,700	1		µg/L	GE	0
		Total phosphates (as P)				90	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	10	7.4		14	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.1E+00			1.8E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	5.1E+00			2.4E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 77B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107065.8 E54217.4	33.351014 °N 81.732062 °W	145.1-140.4 ft msl	357.2 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/12/95	08/29/95	02/12/96	07/22/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.6	223.7	223.2	222.1	ft msl
pH	6.9	9.3	7.4	8.4	pH
Sp. conductance	50	78	70	60	µS/cm
Water temperature	18.3	18.4	15.0	26.0	°C
Alkalinity as CaCO ₃	9	21	10	16	mg/L
Turbidity	1	1	1	8	NTU
Volume purged	4.9	3.5	2.7	2.3	well volume
Sampling code					
Synchronous water level	223.2 (03/22/95)	223.3 (08/07/95)	223.7 (03/14/96)	222.9 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	20	23	31	20	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.3	1.8	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.8	1.9	1.5	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	72			550	1	V	µg/L	GE	2
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		4.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<0.60	1	V	µg/L	GE	0
		Copper, total recoverable				3.0	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.6	3.3		6.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	390			400	1		µg/L	GE	0
■		Sodium, total recoverable				5,400	1		µg/L	GE	0
		Sulfate	<1,700			820	1	JE	µg/L	GE	0
■		Total phosphates (as P)				330	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	<5.0		<5.1	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	6.8E-01			6.3E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	2.1E+00			4.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			1.1E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 77C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107078.3 E54225.9	33.351056 °N 81.732064 °W	173.2-168.5 ft msl	357.2 ft msl	4" PVC	S	LL

SAMPLE DATE	01/12/95	09/14/95	02/21/96	08/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.7	225.7	225.5	224.1	ft msl
pH	6.0	6.0	4.8	6.2	pH
Sp. conductance	41	42	40	42	µS/cm
Water temperature	18.1	18.3	20.0	26.0	°C
Alkalinity as CaCO ₃	8	11	10	5	mg/L
Turbidity	2	6	2	4	NTU
Volume purged	5.0	4.7	1.9	3.7	well volume
Sampling code					
Synchronous water level	225.2 (03/22/95)	225.4 (08/07/95)	225.8 (03/14/96)	225.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	12	12	13	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	5.6	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<8.4	<10	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<8.4	<10	<2.0	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<8.4	<10	<2.0	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.4	<10	<2.0	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,1,2-Tetrachloroethane	<8.4	<50	<2.0	<10	5		µg/L	GE	0
		Tetrachloroethylene	<8.4	<10	<2.0	<10	5		µg/L	GE	0
		1,1,1-Trichloroethane	<8.4	<10	<2.0	<10	5		µg/L	GE	0
■		Trichloroethylene	110	71	44	52	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	36			<20	1	J	µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				0.82	1	JE	µg/L	GE	0
		Copper, total recoverable				2.5	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.7			3.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,300			1,600	1	JV3	µg/L	GE	0
		Sodium, total recoverable				2,500	1		µg/L	GE	0
		Sulfate	<1,700			210	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	7.8		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.7E+00			1.2E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	2.0E+00			1.8E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	1.3E+00			5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

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WELL MSB 79B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99296.9 E47300.2	33.322544 °N 81.735164 °W	140.8-136.1 ft msl	347.9 ft msl	4" PVC	S	LL
SAMPLE DATE		01/18/95	09/26/95	02/12/96	08/12/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		209.1	208.6	208.3	207.9	ft msl
pH		12.0	11.7	11.4	12.1	pH
Sp. conductance		2650	2900	1000	3020	µS/cm
Water temperature		16.7	18.5		31.0	°C
Alkalinity as CaCO ₃		631	695	218	753	mg/L
Turbidity		10	9	7	2	NTU
Volume purged		0.98	1.1	0.91	0.021	well volume
Sampling code		X	X	X		
Synchronous water level		209.1 (03/22/95)	209.6 (08/08/95)	208.1 (03/13/96)	207.7 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	510	490	150	490	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	11	11	4.7	11	1		µg/L	GE	0
		Nickel, total recoverable	<67	3.5	<10	2.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	2.8	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene	9.8	10	9.3	5.1	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene	20	22	28	20	1		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
	■	Aluminum, total recoverable	2,900			2,100	1	JV	µg/L	GE	2
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<67	6.3		3.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.8	1	JE	µg/L	GE	0
		Copper, total recoverable				12	1		µg/L	GE	0
		Fluoride				1,200	5		µg/L	GE	0
		Manganese, total recoverable	<33			<0.40	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.015		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	610			1,400	1	JV	µg/L	GE	0
	■	Sodium, total recoverable				29,000	1		µg/L	GE	0
	■	Sulfate	<1,700			3,200	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<33	8.3		<5.0	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.4E+01			7.0E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	1.0E+02			1.7E+01	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	3.3E+00			2.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

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■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 79C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N99290.2 E47286.8	33.322508 °N 81.735186 °W	199.6-194.9 ft msl	347.8 ft msl	4" PVC	S	UL

SAMPLE DATE	01/17/95	09/25/95	02/09/96	08/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	211.0	210.9	210.7	210.0	ft msl
pH	6.9	6.9	6.0	6.6	pH
Sp. conductance	97	100	86	84	µS/cm
Water temperature	18.6	19.6	15.0	25.0	°C
Alkalinity as CaCO ₃	14	24	19	10	mg/L
Turbidity	5	1	1	1	NTU
Volume purged	16	3.5	13	9.6	well volume
Sampling code					
Synchronous water level	211.3 (03/22/95)	211.6 (08/08/95)	210.4 (03/13/96)	209.8 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	17	14	16	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	<10	1.4	1	JE	µg/L	GE	0
		Selenium, total recoverable	2.2	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<4.0	2.2	1.9	1	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<20	<2.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene	31	12	26	32	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<4.0	<2.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene	54	28	53	48	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
	■	Aluminum, total recoverable	170			120	1	JV	µg/L	GE	2
		Chloride				2,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.83		1.3	1	JE	µg/L	GE	0
		Cobalt, total recoverable				2.0	1	JE	µg/L	GE	0
		Copper, total recoverable				1.3	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.8			5.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.073		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen	3,700			4,500	4	V	µg/L	GE	0
		Sodium, total recoverable				4,500	1		µg/L	GE	0
		Sulfate	2,000			800	1	JE	µg/L	GE	0
		Total phosphates (as P)				80	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.3	3.7		3.9	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	2.1E+00			2.1E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	1.4E+00			4.2E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	1.5E+00			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 81B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103762.7 E55230.4	33.345366 °N 81.722967 °W	146.1-141.4 ft msl	267 ft msl	4" PVC	S	LL

SAMPLE DATE	01/11/95	09/20/95	02/13/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.7	226.6	221.5	220.4	ft msl
pH	6.1	5.4	5.2	5.2	pH
Sp. conductance	25	30	19	24	µS/cm
Water temperature	18.7	18.9	19.0	24.0	°C
Alkalinity as CaCO ₃	6	5	4	1	mg/L
Turbidity	1	4	0	1	NTU
Volume purged	3.1	1.9	6.0	5.9	well volume
Sampling code					
Synchronous water level	221.4 (03/22/95)	221.3 (08/08/95)	221.6 (03/14/96)	221.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable	26	20	20	18	1	V	µg/L	GE	0	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0	
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0	
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0	
		Selenium, total recoverable	<3.3	<1.7	<5.0	<5.0	1		µg/L	GE	0	
		Organics										
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable	<33			<20	1	J	µg/L	GE	0	
		Chloride				3,300	1		µg/L	GE	0	
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0	
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0	
		Copper, total recoverable				3.0	1	JE	µg/L	GE	0	
		Fluoride				<100	1		µg/L	GE	0	
		Manganese, total recoverable	24			15	1	V	µg/L	GE	0	
		Mercury, total recoverable	4.2	5.1		6.0	1		µg/L	GE	2	
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen	240			580	1	JV	µg/L	GE	0	
		Sodium, total recoverable				2,000	1		µg/L	GE	0	
		Sulfate	<1,700			300	1	JE	µg/L	GE	0	
		Total phosphates (as P)				<50	1		µg/L	GE	0	
		Uranium, total recoverable				<20	1		µg/L	GE	0	
		Zinc, total recoverable	<3.3	<3.1		4.8	1	JE	µg/L	GE	0	
		Radionuclides										
		Gross alpha	8.6E-01			6.5E-01	1	J	pCi/L	GP	0	
		Nonvolatile beta	1.2E+00			1.6E+00	1	J	pCi/L	GP	0	
		Radium, total alpha-emitting	4.0E-01			6.0E-01	1		pCi/L	GP	0	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 82A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107529.5 E51978.4	33.348383 °N 81.738861 °W	126.1-121.4 ft msl	374.3 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/27/95	09/14/95	01/30/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.5	223.2	223.0	228.7	ft msl
pH	12.0	11.7	11.2	11.2	pH
Sp. conductance	666	987	540	800	µS/cm
Water temperature	16.3	23.7	15.0	27.0	°C
Alkalinity as CaCO ₃	190	171	199	138	mg/L
Turbidity	4	2	1	3	NTU
Volume purged	0.84	0.69	0.96	1.0	well volume
Sampling code	X	X	X	X	
Synchronous water level	221.2 (03/22/95)	222.8 (08/07/95)	217.6 (03/11/96)	228.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	160	190	170	150	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	9.1	2.3	4.2	3.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.9	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.9	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<33	<50	<20	<8.0	4		µg/L	GE	0
		1,1-Dichloroethane	<33	<50	<20	<8.0	4		µg/L	GE	0
		1,1-Dichloroethylene	<33	<50	<20	<8.0	4		µg/L	GE	0
		trans-1,2-Dichloroethylene	<33	<50	<20	<8.0	4		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<33	<250	<20	<8.0	4		µg/L	GE	0
		Tetrachloroethylene	<33	<50	<20	<8.0	4		µg/L	GE	0
		1,1,1-Trichloroethane	<33	<50	<20	<8.0	4		µg/L	GE	0
■		Trichloroethylene	95	180	58	90	4		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	890		670	760	1	J	µg/L	GE	2
		Chloride				1,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	0.74	0.81	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				2.1	1	JE	µg/L	GE	0
		Fluoride				260	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		1.2	<0.60	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.044	0.47	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	100		170	570	1	V	µg/L	GE	0
■		Sodium, total recoverable				27,000	1		µg/L	GE	0
■		Sulfate	27,000			25,000	10		µg/L	GE	0
		Total phosphates (as P)				30	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	5.3	3.4		<5.0	1		µg/L	GE	0

Radionuclides

Gross alpha	2.0E+00	1.0E+00	1.7E+00	1		pCi/L	GP	0
Nonvolatile beta	6.6E+00	1.4E+01	1.2E+01	1		pCi/L	GP	0
Radium, total alpha-emitting	1.6E+00		1.2E+00	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 82B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107533.4 E51993.3	33.348416 °N 81.738829 °W	148.2-143.5 ft msl	374.2 ft msl	4" PVC	S	MCBC

SAMPLE DATE	01/10/95	08/28/95	02/01/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.1	222.6	221.7	220.0	ft msl
pH	4.2	4.4	4.0	5.2	pH
Sp. conductance	36	33	39	74	µS/cm
Water temperature	18.8	19.8	14.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged	2.9	3.2	4.2	5.0	well volume
Sampling code					
Synchronous water level	221.5 (03/22/95)	221.8 (08/07/95)	221.7 (03/11/96)	221.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	7.4	7.4	6.6	7.4	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.1	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.0	1.2	0.96	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	110			<130	1	V	µg/L	GE	0
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<2.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				<1.2	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	15			11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.073		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	96			290	1	V	µg/L	GE	0
		Sodium, total recoverable				1,800	1	V	µg/L	GE	0
		Sulfate	6,300			7,000	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	13	5.8		6.1	1		µg/L	GE	0
Radionuclides											
		Gross alpha	6.9E+00			1.1E+01	1		pCi/L	GP	1
		Nonvolatile beta	6.9E+00			9.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.1E+01			4.7E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 82C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107521.9 E51949.4	33.348319 °N 81.738923 °W	177.7-173.0 ft msl	373.9 ft msl	4" PVC	S	LL

SAMPLE DATE	01/10/95	08/29/95	02/01/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.6	230.5	230.5	229.5	ft msl
pH	5.9	6.3	5.4	6.2	pH
Sp. conductance	28	39	30	98	µS/cm
Water temperature	18.8	19.4	14.0	25.0	°C
Alkalinity as CaCO ₃	2	9	5	1	mg/L
Turbidity	1	3	0	0	NTU
Volume purged	3.2	2.8	6.0	5.0	well volume
Sampling code					
Synchronous water level	229.0 (03/22/95)	230.3 (08/07/95)	230.3 (03/11/96)	229.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	26	31	19	20	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	7.5	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	1.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<40	1	V	µg/L	GE	0
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.8		<2.7	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.5	1	V	µg/L	GE	0
		Copper, total recoverable				<2.3	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.1	4.4		3.9	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,900	1	V	µg/L	GE	0
		Sodium, total recoverable				2,700	1	V	µg/L	GE	0
		Sulfate	<1,700			170	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.4	12		4.3	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	6.1E-01			1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	6.0E-01			6.8E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	7.0E-01			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 82D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107518.1 E51934.6	33.348286 °N 81.738954 °W	236.9-216.8 ft msl	373.6 ft msl	4" PVC	S	M

SAMPLE DATE	01/11/95	08/29/95	02/01/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.5	234.2	234.6	234.0	ft msl
pH	6.1	6.0	5.0	6.2	pH
Sp. conductance	25	32	30	98	µS/cm
Water temperature	18.7	20.3	14.0	25.0	°C
Alkalinity as CaCO ₃	3	5	1	1	mg/L
Turbidity	1	7	0	2	NTU
Volume purged	4.9	1.6	7.7	5.8	well volume
Sampling code		X			
Synchronous water level	233.7 (03/22/95)	234.0 (08/07/95)	234.5 (03/11/96)	234.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	5.3	5.1	3.4	4.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	9.1	<5.0	2.2	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	5.0	<10	0.86	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	7.7	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33			<37	1	V	µg/L	GE	0
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	3.8		<1.7	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.95	1	V	µg/L	GE	0
		Copper, total recoverable				11	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	10	16		7.3	1	V	µg/L	GE	0
		Mercury, total recoverable	0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,400			1,900	1	V	µg/L	GE	0
		Sodium, total recoverable				3,500	1	V	µg/L	GE	0
		Sulfate	<1,700			1,200	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	13	26		18	1		µg/L	GE	0
		Radionuclides									
		Gross alpha	2.9E+00			3.0E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.1E+00			7.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.7E+00			1.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 82TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107525.7 E51964.2	33.348351 °N 81.738891 °W	93.8-88.4 ft msl	373.7 ft msl	4" CS	S	CBA

SAMPLE DATE	01/10/95	09/13/95	01/29/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	215.3	216.1	215.3	214.4	ft msl
pH	5.6	5.3	5.8	5.2	pH
Sp. conductance	23	27	28	25	µS/cm
Water temperature	19.0	20.0	20.0	25.0	°C
Alkalinity as CaCO ₃	4	1	3	2	mg/L
Turbidity	20	9	11	15	NTU
Volume purged	3.1	2.7	4.5	3.3	well volume
Sampling code					
Synchronous water level	215.8 (03/22/95)	215.6 (08/07/95)	215.7 (03/11/96)	215.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	4.8	4.4	4.1	4.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.4	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.1	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		■ Trichloroethylene	45	51	53	47	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33		52	31	1	J	µg/L	GE	1
		Chloride				1,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	0.71	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				3.4	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		■ Manganese, total recoverable	57	62	47	57	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	<0.20	<0.11	<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	480		400	820	1	JV	µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	0
		Sulfate	1,900			1,900	1		µg/L	GE	0
		Total phosphates (as P)				40	1	JE	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	7.1	10		6.6	1		µg/L	GE	0
		Radionuclides									
		Gross alpha	1.7E+00		1.3E+00	9.5E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.7E+00		1.2E+00	1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	8.0E-01			3.0E-01	1	J	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 83B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108426.7 E52421.4	33.351090 °N 81.739440 °W	146.3-141.6 ft msl	371.8 ft msl	4" PVC	S	MCBC
SAMPLE DATE		01/10/95	08/28/95	01/31/96	07/26/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		222.5	223.8	223.4	222.0	ft msl
pH		6.2	5.3	5.6	5.4	pH
Sp. conductance		19	21	20	42	µS/cm
Water temperature		18.5	19.4	25.0	24.0	°C
Alkalinity as CaCO ₃		3	7	2	1	mg/L
Turbidity		1	1	1	0	NTU
Volume purged		3.3	3.0	3.3	4.1	well volume
Sampling code						
Synchronous water level		223.0 (03/22/95)	223.2 (08/07/95)	223.3 (03/11/96)	223.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Barium, total recoverable	8.2	7.8	7.3	8.2	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	2.3	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	1.3	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.7	1.3	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.2	<3.8	<1.7	1	V	µg/L	GE	0
<i>Organics</i>											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
<i>Inorganics</i>											
		Aluminum, total recoverable	<33			20	1	JE	µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.3		<1.9	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable				<2.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.7	2.5		2.5	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.096	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	400			700	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	0
		Sulfate	1,200			1,400	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	2.1	<3.4		4.7	1	JE	µg/L	GE	0
<i>Radionuclides</i>											
		Gross alpha	3.3E+00			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	3.9E+00			2.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	5.7E+00			1.0E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 83C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108405.3 E52384.7	33.350983 °N 81.739495 °W	182.8-178.0 ft msl	372 ft msl	4" PVC	S	LL

SAMPLE DATE	01/10/95	08/28/95	02/01/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.7	230.1	230.0	229.0	ft msl
pH	10.4	10.0	7.6	6.8	pH
Sp. conductance	63	93	55	100	µS/cm
Water temperature	18.2	19.5	14.0	25.0	°C
Alkalinity as CaCO ₃	23	30	29	10	mg/L
Turbidity	1	1	0	0	NTU
Volume purged	4.6	2.6	2.8	7.2	well volume
Sampling code					
Synchronous water level	225.0 (03/22/95)	229.8 (08/07/95)	229.9 (03/11/96)	229.4 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	14	21	12	15	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.5	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.5	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.9	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	130			<110	1	V	µg/L	GE	0
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<2.1	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable				<1.1	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	<3.3			2.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,500			1,900	1	V	µg/L	GE	0
		Sodium, total recoverable				2,500	1	V	µg/L	GE	0
		Sulfate	<1,700			210	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	<3.3	3.4		6.5	1		µg/L	GE	0

Radionuclides

Gross alpha	1.9E+00		1.3E+00	1		pCi/L	GP	0
Nonvolatile beta	1.0E+00		1.5E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	8.0E-01		2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 83D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108418.4 E52391.2	33.351022 °N 81.739503 °W	236.1-216.7 ft msl	371.6 ft msl	4" PVC	S	M

SAMPLE DATE 01/11/95 08/29/95 02/02/96 07/25/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.7	234.3	234.8	234.2	ft msl
pH	7.3	8.0	6.4	6.8	pH
Sp. conductance	263	139	180	100	µS/cm
Water temperature	8.0	22.5	0.5	29.0	°C
Alkalinity as CaCO ₃	44	63	83	24	mg/L
Turbidity	3	7	5	18	NTU
Volume purged	0.90	0.35	0.59	0.52	well volume
Sampling code	X	X	X	X	
Synchronous water level	233.9 (03/22/95)	234.1 (08/07/95)	234.7 (03/11/96)	234.1 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	10	9.8	11	9.3	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.3	<5.0	6.4	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	1.4	2.9	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.8	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	120			220	1	V	µg/L	GE	2
		Chloride				850	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.5		<3.4	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.2	1	V	µg/L	GE	0
		Copper, total recoverable				6.3	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.1			11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	590			1,200	1	V	µg/L	GE	0
■		Sodium, total recoverable				9,200	1	V	µg/L	GE	0
		Sulfate	1,100			860	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	11	12		16	1		µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E-01			1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.7E+00			4.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 83TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108416.3 E52410.9	33.351050 °N 81.739447 °W	75.7-70.2 ft msl 371.7 ft msl	4" PVC	S	CBA	

SAMPLE DATE	01/10/95	08/28/95	01/31/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	216.4	217.5	216.8	215.8	ft msl
pH	6.1	5.3	5.4	6.2	pH
Sp. conductance	16	18	16	46	µS/cm
Water temperature	18.7	19.7	24.0	25.0	°C
Alkalinity as CaCO ₃	3	1	2	1	mg/L
Turbidity	0	1	2	0	NTU
Volume purged	2.4	2.4	2.8	3.4	well volume
Sampling code					
Synchronous water level	216.9 (03/22/95)	216.6 (08/07/95)	216.9 (03/11/96)	216.7 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	3.5	3.5	3.3	3.9	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.6	1.3	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.5	1.7	1.3	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.7	<1.5	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<29	1	V	µg/L	GE	0
		Chloride				1,200	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.67		<2.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.0	1	V	µg/L	GE	0
		Copper, total recoverable				<4.4	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.0			4.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	680			900	1	V	µg/L	GE	0
		Sodium, total recoverable				1,300	1	V	µg/L	GE	0
		Sulfate	<1,700			520	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	8.6	<9.3		11	1		µg/L	GE	0

Radionuclides

Gross alpha	3.9E-01		4.9E-01	1	UI	pCi/L	GP	0
Nonvolatile beta	2.5E-01		3.0E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	7.0E-01		1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 84A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108982.1 E51971.2	33.351582 °N 81.741707 °W	129.4-124.5 ft msl	361.5 ft msl	4" PVC	S	MCBC

SAMPLE DATE 08/29/95 02/02/96 07/26/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		217.3	215.9	213.8	ft msl
pH		9.9	9.0	9.8	pH
Sp. conductance		943	940	400	µS/cm
Water temperature		21.0	15.0	25.0	°C
Alkalinity as CaCO ₃		405	214	60	mg/L
Turbidity		138	81	36	NTU
Volume purged		0.35	0.63	0.56	well volume
Sampling code		X	X	X	
Synchronous water level		216.1 (08/07/95)	173.7 (03/11/96)	185.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable		8.8	19	25	1	V	µg/L	GE	0
		Cyanide		<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable		6.5	5.6	3.5	1	JE	µg/L	GE	0
		Nickel, total recoverable		1.5	1.8	1.3	1	JE	µg/L	GE	0
		Selenium, total recoverable		<5.0	<2.6	<3.3	1	V	µg/L	GE	0
Organics											
		Chlorobenzene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane		<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
	■	Aluminum, total recoverable			1,500	290	1		µg/L	GE	2
		Chloride				3,400	1		µg/L	GE	0
		Chromium, total recoverable		6.1	3.8	<2.5	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.4	1	V	µg/L	GE	0
		Copper, total recoverable				<3.4	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable			21	18	1	V	µg/L	GE	0
		Mercury, total recoverable		<0.20	<0.079	0.17	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen			<10	230	1	V	µg/L	GE	0
	■	Sodium, total recoverable				90,000	1		µg/L	GE	0
	■	Sulfate			38,000	45,000	10		µg/L	GE	0
	■	Total phosphates (as P)				870	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable		15		12	1		µg/L	GE	0
Radionuclides											
		Gross alpha			9.8E-01	-6.1E-02	1	UI	pCi/L	GP	0
		Nonvolatile beta			3.1E+01	1.4E+01	1		pCi/L	GP	0
		Radium, total alpha-emitting				2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 84C

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108967.9 E51973.7	33.351555 °N 81.741672 °W	194.9-190.2 ft msl	361.9 ft msl	4" PVC	S	LL

SAMPLE DATE	01/30/95	08/28/95	02/01/96	07/26/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.9	231.3	231.1	230.3	ft msl
pH	5.5	5.5	5.6	5.4	pH
Sp. conductance	33	33	34	16	µS/cm
Water temperature	18.1	19.3	18.0	25.0	°C
Alkalinity as CaCO ₃	1	2	6	2	mg/L
Turbidity	0	1	1	4	NTU
Volume purged	6.2	4.2	3.4	2.3	well volume
Sampling code					
Synchronous water level	230.4 (03/22/95)	231.0 (08/07/95)	231.0 (03/11/96)	230.5 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.4	6.0	5.2	5.6	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.0	2.5	1.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	0.70	1.3	1.0	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.1	<5.0	<1.5	1	V	µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1		µg/L	GE	0
		Chloride				2,000	1		µg/L	GE	0
		Chromium, total recoverable	1.9	<4.0		<1.1	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.48	1	V	µg/L	GE	0
		Copper, total recoverable				<7.9	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.1	1.7		2.1	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.13	<0.20		<0.11	1	V	µg/L	GE	0
		Nitrate as nitrogen	1,700						µg/L		
		Nitrate-nitrite as nitrogen	1,500			1,900	2	V	µg/L	GE	0
		Sodium, total recoverable				2,500	1		µg/L	GE	0
		Sulfate	6,900			200	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	6.9	<8.4		13	1		µg/L	GE	0

Radionuclides

Gross alpha	1.8E+00		1.1E+00	1		pCi/L	GP	0
Nonvolatile beta	1.9E+00		1.1E+00	1	UI	pCi/L	GP	0
Radium, total alpha-emitting	7.0E-01		4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 85B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107827.0 E53122.7	33.350909 °N 81.736426 °W	137.3-132.6 ft msl	380.3 ft msl	4" PVC	S	CBA

SAMPLE DATE	01/10/95	08/28/95	02/01/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	222.3	223.6	223.0	221.6	ft msl
pH	6.3	5.5	6.0	5.4	pH
Sp. conductance	24	26	30	24	µS/cm
Water temperature	18.7	19.9	19.0	25.0	°C
Alkalinity as CaCO ₃	3	1	9	4	mg/L
Turbidity	3	1	4	6	NTU
Volume purged	2.7	3.3	3.3	2.1	well volume
Sampling code					
Synchronous water level	222.8 (03/22/95)	223.0 (08/07/95)	223.1 (03/11/96)	222.8 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	9.9	9.8	17	16	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.8	1.3	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.4	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.7	<2.0	2.1	1.5	1	JE	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<45	1	V	µg/L	GE	0
		Chloride				1,700	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<2.3	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.0	1	V	µg/L	GE	0
		Copper, total recoverable				<0.95	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.3			<2.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,400			1,700	1	V	µg/L	GE	0
		Sodium, total recoverable				2,500	1	V	µg/L	GE	0
		Sulfate	<1,700			280	1	JE	µg/L	GE	0
		Total phosphates (as P)				100	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	15	9.6		8.5	1		µg/L	GE	0
Radionuclides											
		Gross alpha	8.1E-01			7.0E-01	1		pCi/L	GP	0
		Nonvolatile beta	8.9E-01			1.1E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 85C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107835.2 E53151.4	33.350974 °N 81.736366 °W	173.6-168.8 ft msl	380.9 ft msl	4" PVC	S	LL

SAMPLE DATE	01/10/95	09/13/95	02/12/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.4	226.3	226.1	224.9	ft msl
pH	9.2	5.7	5.8	6.0	pH
Sp. conductance	77	47	44	46	µS/cm
Water temperature	16.3	19.9	15.0	25.0	°C
Alkalinity as CaCO ₃	20	5	5	3	mg/L
Turbidity	4	2	1	1	NTU
Volume purged	0.81	2.7	3.4	3.0	well volume
Sampling code	X				
Synchronous water level	225.7 (03/22/95)	226.3 (08/07/95)	226.3 (03/11/96)	226.0 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	54	19	20	20	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.4	<5.0	3.4	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	71	40	28	36	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	85			<20	1	J	µg/L	GE	0
		Chloride				2,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				1.1	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	13			2.0	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	3,300			2,700	2	JV	µg/L	GE	0
		Sodium, total recoverable				4,000	1		µg/L	GE	0
		Sulfate	<1,700			190	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.8	5.9		6.5	1		µg/L	GE	0
Radionuclides											
		Gross alpha	2.6E+00			4.5E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta	2.3E+00			1.6E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	9.0E-01			7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 85D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107822.8 E53108.8	33.350877 °N 81.736454 °W	236.3-216.2 ft msl	380.8 ft msl	4" PVC	S	M

SAMPLE DATE	01/10/95	08/28/95	02/01/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	233.6	234.1	234.6	233.8	ft msl
pH	7.2	4.9	6.0	6.0	pH
Sp. conductance	79	53	52	52	µS/cm
Water temperature	17.2	20.2	19.0	26.0	°C
Alkalinity as CaCO ₃	30	2		12	mg/L
Turbidity	10	4	109	29	NTU
Volume purged	0.88	8.7	4.6	3.5	well volume
Sampling code	X				
Synchronous water level	233.6 (03/22/95)	233.9 (08/07/95)	234.5 (03/11/96)	233.8 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	13	25	30	26	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	4.4	<5.0	3.0	3.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.0	1.5	2.2	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.7	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	1.9	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	66			680	1	V	µg/L	GE	2
		Chloride				2,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.5	1	V	µg/L	GE	0
		Cobalt, total recoverable				<2.3	1	V	µg/L	GE	0
		Copper, total recoverable				6.6	1	V	µg/L	GE	0
		Fluoride				46	1	JE	µg/L	GE	0
		Manganese, total recoverable	6.4			20	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
■		Nitrate-nitrite as nitrogen	2,000			3,400	4	V	µg/L	GE	0
■		Sodium, total recoverable				5,700	1	V	µg/L	GE	0
		Sulfate	1,700			880	1	JE	µg/L	GE	0
		Total phosphates (as P)				<150	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	38	9.7		33	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.1E+00			6.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00			4.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00			3.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 85TA

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107831.2 E53137.2	33.350942 °N 81.736396 °W	88.2-82.8 ft msl 380.4 ft msl	4" Steel	S	CBA	

SAMPLE DATE	01/10/95	09/14/95	02/13/96	08/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	221.8	222.7	222.5	220.9	ft msl
pH	9.2	6.6	5.8	8.0	pH
Sp. conductance	54	86	200	66	µS/cm
Water temperature	16.3	20.3	15.0	28.0	°C
Alkalinity as CaCO ₃	36	41	31	18	mg/L
Turbidity	50	20	15	6.2	NTU
Volume purged	0.42	0.49	0.033	0.92	well volume
Sampling code	X	X	X	X	
Synchronous water level	222.2 (03/22/95)	222.4 (08/07/95)	222.5 (03/11/96)	222.2 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	18	17	25	22	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.5	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	4.6	5.0	4.3	2.4	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	24			75	1	J	µg/L	GE	2
		Chloride				2,100	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				2.0	1	JE	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	87			290	1	V	µg/L	GE	2
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				1,000	1	JV	µg/L	GE	0
		Nitrate-nitrite as nitrogen	<83			5,900	1		µg/L	GE	0
		Sodium, total recoverable				270	1	JE	µg/L	GE	0
		Sulfate	<1,700			<50	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				7.2	1		µg/L	GE	0
		Zinc, total recoverable	4.7	9.5					µg/L	GE	0
Radionuclides											
		Gross alpha	6.2E-01			1.7E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta	4.9E+00			1.3E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting	-1.0E-01			0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 86C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N108500.4 E54560.5	33.354746 °N 81.733949 °W	164.8-160.1 ft msl	357 ft msl	4" PVC	S	LL

SAMPLE DATE 01/09/95 08/28/95 02/13/96 07/25/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.6	226.6	226.3	225.5	ft msl
pH	6.5	6.4	3.8	5.8	pH
Sp. conductance	32	42	202	24	µS/cm
Water temperature	17.6	19.0	20.0	25.0	°C
Alkalinity as CaCO ₃	9	11	175	9	mg/L
Turbidity	45	33	28	19	NTU
Volume purged	3.8	3.6	0.023	2.5	well volume
Sampling code			X		
Synchronous water level	226.0 (03/22/95)	226.3 (08/07/95)	226.4 (03/11/96)	325.9 (09/16/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	13	15	19	15	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<3.1	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.6	1.9	1.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	0.97	<10	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.7	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		■ Aluminum, total recoverable	270			150	1	V	µg/L	GE	2
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.6		<2.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<0.56	1	V	µg/L	GE	0
		Copper, total recoverable				<2.6	1	V	µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	16	14		12	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.021		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			1,600	1	V	µg/L	GE	0
		Sodium, total recoverable				2,600	1	V	µg/L	GE	0
		Sulfate	<1,700			270	1	JE	µg/L	GE	0
		Total phosphates (as P)				<30	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	7.7	7.5		10	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.9E+00			6.4E-01	1		pCi/L	GP	0
		Nonvolatile beta	2.0E+00			8.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01			4.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 87B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101276.0 E51607.0	33.333952 °N 81.727673 °W	174.1-169.1 ft msl	336 ft msl	2" PVC	V	LL

SAMPLE DATE	01/10/95	08/28/95	02/02/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	218.7	221.0	219.6	218.4	ft msl
pH	6.5	6.5	5.8	5.0	pH
Sp. conductance	56	52	44	28	µS/cm
Water temperature	19.0	19.3	18.0	25.0	°C
Alkalinity as CaCO ₃	15	13	9	1	mg/L
Turbidity	1	1	2	3	NTU
Volume purged	2.6	4.1	1.9	2.3	well volume
Sampling code					
Synchronous water level	219.8 (03/22/95)	220.5 (08/08/95)	219.6 (03/14/96)	218.4 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	36	36	36	33	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.4	14	4.1	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.2	1.4	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.6	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	29			<41	1	V	µg/L	GE	0
		Chloride				1,400	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.91		<3.2	1	V	µg/L	GE	0
		Cobalt, total recoverable				<1.8	1	V	µg/L	GE	0
		Copper, total recoverable				<4.0	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	8.8			8.4	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				920	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen	560			1,500	1	V	µg/L	GE	0
		Sodium, total recoverable				1,800	1		µg/L	GE	0
		Sulfate	2,700			<50	1		µg/L	GE	0
		Total phosphates (as P)				<20	1		µg/L	GE	0
		Uranium, total recoverable				6.2	1		µg/L	GE	0
		Zinc, total recoverable	4.7	<4.7					µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E-01			5.4E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.2E+00			7.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 87C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101277.0 E51596.3	33.333937 °N 81.727703 °W	246.6-241.6 ft msl	336.6 ft msl	2" PVC	V	M

SAMPLE DATE	01/10/95	08/28/95	02/02/96	07/25/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	242.7	243.5	243.1	243.4	ft msl
pH	5.5	5.6	5.2	4.4	pH
Sp. conductance	27	28	26	10	µS/cm
Water temperature	19.1	20.6	15.0	25.0	°C
Alkalinity as CaCO ₃	3	3	3	1	mg/L
Turbidity	1	1	7	9	NTU
Volume purged	71	22	12	17	well volume
Sampling code					
Synchronous water level	243.6 (03/22/95)	243.5 (08/08/95)	243.5 (03/14/96)	242.4 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.6	3.4	9.8	5.7	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	19	1.7	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.8	15	4.1	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.2	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<42	1	V	µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	1.2		<3.0	1	V	µg/L	GE	0
		Cobalt, total recoverable				<3.5	1	V	µg/L	GE	0
		Copper, total recoverable				9.2	1	V	µg/L	GE	0
		Fluoride				260	1		µg/L	GE	0
		Manganese, total recoverable	5.5			11	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100			770	1	V	µg/L	GE	0
		Sodium, total recoverable				3,100	1	V	µg/L	GE	0
		Sulfate	<1,700			460	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	66	47		50	1		µg/L	GE	0
Radionuclides											
		Gross alpha	7.1E-02			1.0E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	2.9E-01			3.6E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 88B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97013.0 E50774.2	33.323168 °N 81.721574 °W	75.8-70.8 ft msl	238.1 ft msl	2" PVC	V	MCBC
SAMPLE DATE		01/11/95	08/28/95	02/06/96	08/13/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		201.5	201.6	201.4	201.0	ft msl
pH			4.9	5.2	4.8	pH
Sp. conductance			27	32	22	µS/cm
Water temperature			18.9	18.0	26.0	°C
Alkalinity as CaCO ₃			0	0	1	mg/L
Turbidity			1	1	1	NTU
Volume purged			2.2	0.28	2.2	well volume
Sampling code	P					
Synchronous water level		202.2 (03/23/95)	201.3 (08/08/95)	201.4 (03/14/96)	201.1 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable		6.4	6.0	6.2	1		µg/L	GE	0
		Cyanide		<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable		<5.0	<5.0	130	1		µg/L	GE	2
		Nickel, total recoverable		2.3	1.5	2.5	1	JE	µg/L	GE	0
		Selenium, total recoverable		<5.1	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene		<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane		<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene		7.9	8.1	13	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable				<20	1		µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable		0.79		1.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.59	1	JE	µg/L	GE	0
		Copper, total recoverable				59	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				15	1	V	µg/L	GE	0
		Mercury, total recoverable		<0.20		0.033	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				990	1	V	µg/L	GE	0
		Sodium, total recoverable				1,600	1		µg/L	GE	0
		Sulfate				1,900	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable		9.7		26	1	V	µg/L	GE	0

Radionuclides

Gross alpha					2.4E-01	1	UI	pCi/L	GP	0
Nonvolatile beta					5.8E-01	1	UI	pCi/L	GP	0
Radium, total alpha-emitting					5.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 88C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N97012.7 E50784.0	33.323184 °N 81.721548 °W	127.2-122.2 ft msl	237.2 ft msl	2" PVC	V	LL

SAMPLE DATE	01/11/95	09/25/95	02/07/96	08/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	204.1	203.7	203.9	203.4	ft msl
pH		5.2		5.2	pH
Sp. conductance		41		42	µS/cm
Water temperature		18.5		28.0	°C
Alkalinity as CaCO ₃		1		3	mg/L
Turbidity		15		6	NTU
Volume purged		2.3		2.3	well volume
Sampling code	P		L		
Synchronous water level	205.2 (03/23/95)	204.1 (08/08/95)	203.8 (03/14/96)	203.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable		5.6	4.1	4.1	1		µg/L	GE	0
		Cyanide		<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable		4.6	18	<5.0	1		µg/L	GE	0
		Nickel, total recoverable		4.7	1.3	<10	1		µg/L	GE	0
		Selenium, total recoverable		<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<10	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		14	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<50	<2.0	<2.0	1		µg/L	GE	0
	■	Tetrachloroethylene		88	57	23	1		µg/L	GE	2
		1,1,1-Trichloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
	■	Trichloroethylene		270	170	160	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable				<21	1	JV	µg/L	GE	0
		Chloride				3,700	1		µg/L	GE	0
		Chromium, total recoverable		6.2		1.1	1	JE	µg/L	GE	0
		Cobalt, total recoverable				0.31	1	JE	µg/L	GE	0
		Copper, total recoverable				5.2	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				8.8	1	V	µg/L	GE	0
		Mercury, total recoverable		<0.026		0.025	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
	■	Nitrate-nitrite as nitrogen				2,600	2	JV	µg/L	GE	0
	■	Sodium, total recoverable				6,500	1		µg/L	GE	0
		Sulfate				1,100	1		µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable		9.0		6.4	1		µg/L	GE	0
Radionuclides											
		Gross alpha				3.5E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta				8.8E-01	1	UJI	pCi/L	GP	0
		Radium, total alpha-emitting				2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 89B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N98374.1 E47889.9	33.321467 °N 81.731816 °W	162.0-157.0 ft msl	339.4 ft msl	2" PVC	V	LL

SAMPLE DATE	01/17/95	09/25/95	02/09/96	08/12/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	208.2	207.8	207.7	207.0	ft msl
pH		5.0	4.8	5.4	pH
Sp. conductance		30	28	30	µS/cm
Water temperature		19.3	15.0	25.0	°C
Alkalinity as CaCO ₃		1	1	1	mg/L
Turbidity		2	0	1	NTU
Volume purged		2.6	2.6	2.6	well volume
Sampling code	P				
Synchronous water level	208.6 (03/22/95)	208.7 (08/08/95)	207.4 (03/13/96)	206.7 (09/18/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable		8.6	8.4	10	1		µg/L	GE	0
		Cyanide		96	<10	<10	1		µg/L	GE	0
		Lead, total recoverable		<5.0	<5.0	7.6	1		µg/L	GE	0
		Nickel, total recoverable		3.7	2.4	4.5	1	JE	µg/L	GE	0
		Selenium, total recoverable		<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<10	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		<10	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<50	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene		<10	1.7	1.3	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene		94	93	73	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable				<20	1	J	µg/L	GE	0
		Chloride				1,500	1		µg/L	GE	0
		Chromium, total recoverable		2.7		3.8	1	JE	µg/L	GE	0
		Cobalt, total recoverable				3.3	1	JE	µg/L	GE	0
		Copper, total recoverable				13	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable				16	1	V	µg/L	GE	0
		Mercury, total recoverable		<0.088		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen				2,100	2	JV	µg/L	GE	0
		Nitrate-nitrite as nitrogen				2,300	1		µg/L	GE	0
		Sodium, total recoverable				340	1	JE	µg/L	GE	0
		Sulfate				<50	1		µg/L	GE	0
		Total phosphates (as P)				11	1	JE	µg/L	GE	1
		Uranium, total recoverable				13	1		µg/L	GE	0
		Zinc, total recoverable		8.0					µg/L	GE	0
Radionuclides											
		Gross alpha				7.9E-01	1	J	pCi/L	GP	0
		Nonvolatile beta				1.1E+00	1	J	pCi/L	GP	0
		Radium, total alpha-emitting				2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL SRW 2A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103720.8 E41634.6	33.323069 °N 81.758687 °W	98.4-88.6 ft msl	320.6 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/14/95	08/30/95	02/16/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	206.7	207.8	207.6	206.8	ft msl
pH	4.5	4.7	4.8	6.0	pH
Sp. conductance	21	19	12	52	µS/cm
Water temperature	18.7	19.9	18.0	27.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	0	1	0	1	NTU
Volume purged	3.1	2.9	5.2	2.5	well volume
Sampling code					
Synchronous water level	207.8 (03/23/95)	208.1 (08/07/95)	207.6 (03/12/96)	206.3 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	4.4	4.1	9.8	4.1	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.6	3.8	4.8	4.4	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	1.4	2.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	1.4	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	21		<30	<20	1	J	µg/L	GE	0
		Chloride				2,600	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	0.83	<4.0	1		µg/L	GE	0
		Cobalt, total recoverable			0.60	<4.0	1		µg/L	GE	0
		Copper, total recoverable			35	57	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	2.7		3.3	2.7	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.031		0.069	1	JE	µg/L	GE	0
		Nitrate as nitrogen				550	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen			1,500	1,700	1		µg/L	GE	0
		Sodium, total recoverable				1,100	1		µg/L	GE	0
		Sulfate				<40	1	V	µg/L	GE	0
		Total phosphates (as P)				47	1		µg/L	GE	2
		Uranium, total recoverable				7.4	1	J	µg/L	GE	0
		Zinc, total recoverable	7.0	11	<7.5				µg/L	GE	0
Radionuclides											
		Gross alpha	9.2E-01			5.9E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta	7.1E-01			8.3E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL SRW 2B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103729.7 E41631.7	33.323084 °N 81.758712 °W	162.6-152.8 ft msl	320.6 ft msl	4" PVC	S	UL

SAMPLE DATE	02/14/95	08/30/95	02/15/96	08/16/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	207.9	209.0	208.5	207.6	ft msl
pH	4.5	5.0	4.8	4.8	pH
Sp. conductance	19	20	11	18	µS/cm
Water temperature	18.4	18.9	18.0	28.0	°C
Alkalinity as CaCO ₃	0	0	1	1	mg/L
Turbidity	0	1	0	1	NTU
Volume purged	3.4	4.6	5.9	5.2	well volume
Sampling code					
Synchronous water level	209.1 (03/23/95)	209.0 (08/07/95)	208.6 (03/12/96)	207.5 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.1	5.9	5.1	6.1	1		µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	6.3	8.1	5.9	8.9	1	JE	µg/L	WA	0
		Nickel, total recoverable	<6.7	1.1	<10	1.4	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.9	<5.0	<5.0	1		µg/L	GE	0

Organics

Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
Trichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			29	1		µg/L	GE	1
		Chloride				2,200	1	V	µg/L	WA	0
		Chromium, total recoverable	<6.7	<4.0		2.2	1	JE	µg/L	GE	0
		Cobalt, total recoverable				1.4	1	JE	µg/L	GE	0
		Copper, total recoverable				23	1	V	µg/L	GE	0
		Fluoride				<15	1	V	µg/L	WA	0
		Manganese, total recoverable	6.5	6.2		7.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.019		0.064	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				830	1	V	µg/L	GE	0
		Sodium, total recoverable				1,400	1	V	µg/L	GE	0
		Sulfate				450	1		µg/L	WA	0
		Total phosphates (as P)				7.5	1	JE	µg/L	WA	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	3.1	5.2		11	1		µg/L	GE	0

Radionuclides

Gross alpha	1.3E+00		2.0E+00	1		pCi/L	GP	0
Nonvolatile beta	1.1E+00		1.9E+00	1		pCi/L	GP	0
Radium, total alpha-emitting	7.0E-01		1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL SRW 14A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102831.3 E41538.6	33.320946 °N 81.757209 °W	123.7-113.9 ft msl	327 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/09/95	08/30/95	02/15/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	203.6	204.6	204.7	203.5	ft msl
pH	5.1	5.0	4.6	5.2	pH
Sp. conductance	25	22	10	60	µS/cm
Water temperature	18.6	19.8	21.0	25.0	°C
Alkalinity as CaCO ₃	2	1	1	0	mg/L
Turbidity	0	2	1	3	NTU
Volume purged	3.2	2.5	6.0	2.6	well volume
Sampling code			P		
Synchronous water level	204.8 (03/22/95)	204.7 (08/07/95)	204.4 (03/12/96)	203.1 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable	4.4	4.1	4.4	4.6	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.9	2.3	5.3	3.5	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	2.0	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<2.0	<5.0	1		µg/L	GE	0
		Organics									
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		■ Trichloroethylene	14	20	40	31	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable	<33			<20	1	J	µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.18	1	V	µg/L	GE	0
		Copper, total recoverable				43	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	3.6			3.3	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		0.066	1	JE	µg/L	GE	0
		Nitrate as nitrogen				1,200	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen				1,800	1		µg/L	GE	0
		Sodium, total recoverable				360	1	JE	µg/L	GE	0
		Sulfate				<30	1	V	µg/L	GE	0
		Total phosphates (as P)				31	1		µg/L	GE	2
		Uranium, total recoverable				5.7	1	J	µg/L	GE	0
		Zinc, total recoverable	4.2	9.1							
		Radionuclides									
		Gross alpha	3.8E+00			5.1E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta	1.5E+00			5.6E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01			2.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL SRW 14B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102836.1 E41548.1	33.320972 °N 81.757193 °W	162.9-153.1 ft msl	326.9 ft msl	4" PVC	S	UL
SAMPLE DATE		02/09/95	08/30/95	02/15/96	08/15/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		205.2	206.7	206.5	205.3	ft msl
pH		5.1	5.1	4.8	7.0	pH
Sp. conductance		23	21	11	60	µS/cm
Water temperature		18.5	19.7	21.0	25.0	°C
Alkalinity as CaCO ₃		3	1	1	1	mg/L
Turbidity		0	2	0	4	NTU
Volume purged		3.4	3.0	4.9	3.8	well volume
Sampling code						
Synchronous water level		206.6 (03/22/95)	206.8 (08/07/95)	206.3 (03/12/96)	205.1 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.2	4.8	4.7	5.3	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
■		Lead, total recoverable	11	14	12	17	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	1.4	2.8	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<3.8	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	6.2	12	11	16	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1	J	µg/L	GE	0
		Chloride				1,900	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<0.46	1	V	µg/L	GE	0
		Copper, total recoverable				170	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	6.5			6.6	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				920	1	V	µg/L	GE	0
		Sodium, total recoverable				1,700	1		µg/L	GE	0
		Sulfate				300	1	JE	µg/L	GE	0
		Total phosphates (as P)				<50	1		µg/L	GE	0
		Uranium, total recoverable				26	1		µg/L	GE	2
		Zinc, total recoverable	20	27		27	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	4.0E-01			4.4E-01	1	UJI	pCi/L	GP	0
		Nonvolatile beta	1.1E+00			8.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL SRW 16A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103763.4 E42830.9	33.325117 °N 81.755620 °W	144.1-119.4 ft msl	346.8 ft msl	4" PVC	S	LL

SAMPLE DATE	02/15/95	08/31/95	02/16/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	214.1	214.8	215.0	214.2	ft msl
pH	11.6	11.3	11.0	12.0	pH
Sp. conductance	216	432	660	600	µS/cm
Water temperature	17.7	20.0	10.0	24.0	°C
Alkalinity as CaCO ₃	58	126	145	300	mg/L
Turbidity	6	7	3	14.5	NTU
Volume purged	0.45	0.26	0.59	0.55	well volume
Sampling code	X	X	X	X	
Synchronous water level	214.6 (03/22/95)	215.1 (08/07/95)	214.9 (03/12/96)	214.1 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	30	55	59	68	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	3.5	<7.0	3.3	10	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	8.7	9.6	14	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.3	<2.0	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Aluminum, total recoverable	540			1,300	1	J	µg/L	GE	2
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.8		3.0	1	JE	µg/L	GE	0
		Cobalt, total recoverable				<1.0	1	V	µg/L	GE	0
		Copper, total recoverable				17	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	4.0			9.8	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20		<0.20	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen				340	1		µg/L	GE	0
■		Sodium, total recoverable				7,200	1		µg/L	GE	0
		Sulfate				840	1	JE	µg/L	GE	0
		Total phosphates (as P)				<70	1	V	µg/L	GE	0
		Uranium, total recoverable				<20	1		µg/L	GE	0
		Zinc, total recoverable	6.9	27		12	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	1.5E+00			4.7E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	1.2E+00			3.8E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	4.0E-01			1.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL SRW 16B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103772.0 E42825.8	33.325128 °N 81.755650 °W	169.9-160.1 ft msl	346.8 ft msl	4" PVC	S	LL

SAMPLE DATE	02/15/95	08/30/95	02/15/96	08/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	214.8	215.9	215.0	214.7	ft msl
pH	5.3	5.0	4.4	4.0	pH
Sp. conductance	21	21	10	42	µS/cm
Water temperature	18.0	18.8	20.0	20.0	°C
Alkalinity as CaCO ₃	1	0	2	1	mg/L
Turbidity	0	1	0	3	NTU
Volume purged	4.4	4.2	4.6	2.7	well volume
Sampling code					
Synchronous water level	215.3 (03/22/95)	215.7 (08/07/95)	215.5 (03/12/96)	214.5 (09/20/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable	5.9	6.5	6.0	5.6	1		µg/L	GE	0
		Cyanide	<8.3	<18	<10	<10	1		µg/L	GE	0
		Lead, total recoverable	7.6	15	8.4	10	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.68	<10	2.6	1	JE	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.6	<1.6	<5.0	1		µg/L	GE	0
Organics											
		Chlorobenzene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	1.1	1.1	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable	<33			<20	1	J	µg/L	GE	0
		Chloride				1,800	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	0.63		<4.0	1		µg/L	GE	0
		Cobalt, total recoverable				<4.0	1		µg/L	GE	0
		Copper, total recoverable				46	1		µg/L	GE	0
		Fluoride				<100	1		µg/L	GE	0
		Manganese, total recoverable	11			10	1	V	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.067		0.11	1	JE	µg/L	GE	0
		Nitrate as nitrogen				990	1	V	µg/L	GE	0
		Nitrate-nitrite as nitrogen				1,900	1		µg/L	GE	0
		Sodium, total recoverable				250	1	JE	µg/L	GE	0
		Sulfate				<50	1		µg/L	GE	0
		Total phosphates (as P)				29	1		µg/L	GE	2
		Uranium, total recoverable				13	1	J	µg/L	GE	0
		Zinc, total recoverable	13	17							
Radionuclides											
		Gross alpha	3.1E+00			2.2E+00	1	J	pCi/L	GP	0
		Nonvolatile beta	1.4E+00			1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.4E+00			6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, January–April 1996

WELL RWM 1

SRS Coord.	Lat/Longitude	Screen Zone Elevation		Top of Casing	Casing	Pump	Screen Zone				
N102599.1 E48575.1	33.331926 °N 81.738231 °W	232.3-172.3 ft msl		364.7 ft msl	8" CS	S					
SAMPLE DATE		01/26/96	02/14/96	03/13/96	04/03/96						
FIELD DATA											
Parameter	M1	M2	M3	M4	Unit						
Water elevation					ft msl						
pH	4.2	4.0	5.2	4.4	pH						
Sp. conductance	220	360	82	100	µS/cm						
Water temperature	10.0	10.0	22.0	25.0	°C						
Alkalinity as CaCO ₃	1	0	0	1	mg/L						
Turbidity	0	1	1	2	NTU						
Volume purged					well volume						
Sampling code	C	C	C	C							
ANALYTICAL DATA											
Groundwater Protection Standard											
261 Appendix VIII/264 Appendix IX Hazardous Constituents											
H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<1,000	<1,000	<1,000	<250	50		µg/L	WA	0
		1,1-Dichloroethane	<1,000	<1,000	<1,000	<250	50		µg/L	WA	0
		1,1-Dichloroethylene	<1,000	<1,000	<1,000	<250	50		µg/L	WA	0
		trans-1,2-Dichloroethylene	<1,000	<1,000	<1,000	<2,000	1000		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<1,000	<1,000	<1,000	<250	50		µg/L	WA	0
■		Tetrachloroethylene	12,000	5,000	9,300	11,000	250	J	µg/L	WA	2
		1,1,1-Trichloroethane	<1,000	<1,000	<1,000	<250	50		µg/L	WA	0
■		Trichloroethylene	28,000	18,000	27,000	27,000	250	J	µg/L	WA	2
Monitoring Constituents											
H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 2

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104434.1 E49205.5	33.337012 °N 81.740141 °W	208.3-198.3 ft msl	371.3 ft msl		S	

SAMPLE DATE 04/23/96

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH				4.8	pH
Sp. conductance				100	µS/cm
Water temperature				26.0	°C
Alkalinity as CaCO ₃				0	mg/L
Turbidity				11	NTU
Volume purged					well volume
Sampling code				C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

		Chlorobenzene				<200	100		µg/L	GE	0
		1,1-Dichloroethane				<200	100		µg/L	GE	0
		1,1-Dichloroethylene				<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene				<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane				<200	100		µg/L	GE	0
■		Tetrachloroethylene				13,000	100		µg/L	GE	2
		1,1,1-Trichloroethane				<200	100		µg/L	GE	0
■		Trichloroethylene				9,800	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 3

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104730.2 E49680.0	33.338441 °N 81.739467 °W	214.0-204.0 ft msl	377 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/13/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		213.1	213.0		ft msl
pH	4.2	4.2	4.8	4.6	pH
Sp. conductance	150	280	64	64	µS/cm
Water temperature	13.0	15.0	24.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<1,000	<200	<200	<1,000	500		µg/L	GE	0	
		1,1-Dichloroethane	<1,000	<200	<200	<1,000	500		µg/L	GE	0	
		1,1-Dichloroethylene	<1,000	<200	<200	<1,000	500		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1,000	<200	<200	<1,000	500		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1,000	<200	<200	<1,000	500		µg/L	GE	0	
	■	Tetrachloroethylene	1,800	1,900	2,100	2,000	500		µg/L	GE	2	
		1,1,1-Trichloroethane	<1,000	<200	<200	<1,000	500		µg/L	GE	0	
	■	Trichloroethylene	6,200	6,600	7,100	5,600	500		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 4

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103719.3 E48948.2	33.335012 °N 81.739427 °W	211.9-201.6 ft msl	366.5 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/13/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		207.7	207.7	207.2	ft msl
pH	4.0	5.8	3.8	5.0	pH
Sp. conductance	74	100	102	26	µS/cm
Water temperature	12.0	15.0	20.0	24.0	°C
Alkalinity as CaCO ₃	0	1	0	1	mg/L
Turbidity	1	2	2	1	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<400	<100	<200	<500	250		µg/L	GE	0
		1,1-Dichloroethane	<400	<100	<200	<500	250		µg/L	GE	0
		1,1-Dichloroethylene	<400	<100	<200	<500	250		µg/L	GE	0
		trans-1,2-Dichloroethylene	<400	<100	<200	<500	250		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<400	<100	<200	<500	250		µg/L	GE	0
■		Tetrachloroethylene	640	630	610	580	250		µg/L	GE	2
		1,1,1-Trichloroethane	<400	<100	<200	<500	250		µg/L	GE	0
■		Trichloroethylene	6,400	6,300	6,700	5,100	250		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103502.2 E49628.0	33.335642 °N 81.737215 °W	216.8-206.4 ft msl	366.9 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/14/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		212.3	212.2	212.0	ft msl
pH	4.0	4.8	4.4	4.8	pH
Sp. conductance	100	54	40	34	µS/cm
Water temperature	11.0	16.0		25.0	°C
Alkalinity as CaCO ₃	0	0	2	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<50	<10	<100	<100	50		µg/L	GE	0	
		1,1-Dichloroethane	<50	<10	<100	<100	50		µg/L	GE	0	
		1,1-Dichloroethylene	<50	<10	<100	<100	50		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<50	<10	<100	<100	50		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<50	<10	<100	<100	50		µg/L	GE	0	
■		Tetrachloroethylene	670	590	560	640	50		µg/L	GE	2	
		1,1,1-Trichloroethane	<50	<10	<100	<100	50		µg/L	GE	0	
■		Trichloroethylene	1,300	570	860	630	50		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102001.5 E50107.4	33.333107 °N 81.733033 °W	218.7-208.4 ft msl	349.1 ft msl	8" CS	S	

SAMPLE DATE 04/24/96

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH				5.2	pH
Sp. conductance				46	µS/cm
Water temperature				25.0	°C
Alkalinity as CaCO ₃				0	mg/L
Turbidity				1	NTU
Volume purged					well volume
Sampling code				C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene				<400	200		µg/L	GE	0
		1,1-Dichloroethane				<400	200		µg/L	GE	0
		1,1-Dichloroethylene				<400	200		µg/L	GE	0
		trans-1,2-Dichloroethylene				<400	200		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane				<400	200		µg/L	GE	0
■		Tetrachloroethylene				13,000	200		µg/L	GE	2
		1,1,1-Trichloroethane				<400	200		µg/L	GE	0
■		Trichloroethylene				5,800	200		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 7

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101904.6 E49449.5	33.331819 °N 81.734577 °W	216.3-206.0 ft msl	349 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/13/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		194.6	197.8	194.1	ft msl
pH	4.4	4.2	5.2	4.8	pH
Sp. conductance	160	460	68	78	µS/cm
Water temperature	11.0	16.0	20.0	25.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<200	<100	<200	<500	250		µg/L	GE	0	
		1,1-Dichloroethane	<200	<100	<200	<500	250		µg/L	GE	0	
		1,1-Dichloroethylene	<200	<100	<200	<500	250		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<200	<100	<200	<500	250		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<200	<100	<200	<500	250		µg/L	GE	0	
	■	Tetrachloroethylene	6,200	6,100	6,800	7,300	250		µg/L	GE	2	
		1,1,1-Trichloroethane	<200	<100	<200	<500	250		µg/L	GE	0	
	■	Trichloroethylene	7,300	7,000	8,200	6,500	250		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 8

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101948.2 E47353.3	33.328492 °N 81.740182 °W	197.2-186.9 ft msl	348.3 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/13/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		203.5	203.5	203.4	ft msl
pH	4.6	4.2	5.2	5.8	pH
Sp. conductance	220	300	102	100	µS/cm
Water temperature	12.0	17.0	22.0	22.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	1	1	2	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<20	<20	<20	<100	50		µg/L	GE	0
		1,1-Dichloroethane	<20	<20	<20	<100	50		µg/L	GE	0
		1,1-Dichloroethylene	<20	<20	<20	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene	<20	<20	<20	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<20	<20	<20	<100	50		µg/L	GE	0
■		Tetrachloroethylene	460	490	470	480	50		µg/L	GE	2
		1,1,1-Trichloroethane	<20	<20	<20	<100	50		µg/L	GE	0
■		Trichloroethylene	990	1,000	990	840	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 9

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104099.8 E50400.0	33.338224 °N 81.736345 °W	220.6-210.2 ft msl	380.6 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/13/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		224.3	224.4	224.2	ft msl
pH	4.6	4.4	5.8	5.0	pH
Sp. conductance	200	240	60	58	µS/cm
Water temperature	13.0	16.0	20.0	22.0	°C
Alkalinity as CaCO ₃	2	1	1	0	mg/L
Turbidity	0	0	1	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		1,1-Dichloroethane	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		1,1-Dichloroethylene	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		trans-1,2-Dichloroethylene	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		Tetrachloroethylene	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		1,1,1-Trichloroethane	<10	<2.0	<4.0	<10	5		µg/L	GE	0
		Trichloroethylene	34	34	37	28	5		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 10

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102000.9 E48244.1	33.330063 °N 81.737938 °W	215.5-205.1 ft msl	355.5 ft msl	8" CS	S	
SAMPLE DATE		01/26/96	02/14/96	03/13/96	04/03/96	
FIELD DATA						
Parameter		M1	M2	M3	M4	Unit
Water elevation			178.3	178.0	177.8	ft msl
pH		4.9	4.3	5.0	5.0	pH
Sp. conductance		99	90	80	80	µS/cm
Water temperature		12.0	14.0	24.0	22.5	°C
Alkalinity as CaCO ₃		1	0	0	1	mg/L
Turbidity		0	0	1	2	NTU
Volume purged						well volume
Sampling code		C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<200	<100	<100	<500	250		µg/L	GE	0
		1,1-Dichloroethane	<200	<100	<100	<500	250		µg/L	GE	0
		1,1-Dichloroethylene	<200	<100	<100	<500	250		µg/L	GE	0
		trans-1,2-Dichloroethylene	<200	<100	<100	<500	250		µg/L	GE	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		
		1,1,2,2-Tetrachloroethane	<200	<100	<100	<500	250		µg/L	GE	0
■		Tetrachloroethylene	6,400	5,800	6,000	6,700	250		µg/L	GE	2
		1,1,1-Trichloroethane	<200	<100	<100	<500	250		µg/L	GE	0
■		Trichloroethylene	4,900	5,100	5,300	4,200	250		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 11

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104875.0 E50400.2	33.339938 °N 81.737852 °W	214.6-204.2 ft msl	383.3 ft msl	8" CS	S	

SAMPLE DATE	01/26/96	02/14/96	03/13/96	04/03/96
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FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation		212.9	212.9	212.8	ft msl
pH	4.6	4.2	5.2	4.0	pH
Sp. conductance	36	200	38	104	µS/cm
Water temperature	14.0	18.0	24.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<200	<50	<100	<200	100		µg/L	GE	0	
		1,1-Dichloroethane	<200	<50	<100	<200	100		µg/L	GE	0	
		1,1-Dichloroethylene	<200	<50	<100	<200	100		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<200	<50	<100	<200	100		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<200	<50	<100	<200	100		µg/L	GE	0	
		Tetrachloroethylene	<200	94	98	<200	100		µg/L	GE	0	
		1,1,1-Trichloroethane	<200	<50	<100	<200	100		µg/L	GE	0	
		■ Trichloroethylene	1,500	1,500	1,500	960	100		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 12

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106879.2 E52500.1	33.347797 °N 81.736222 °W	210.4-189.9 ft msl	359.4 ft msl	6" CS/SS	S	

SAMPLE DATE

04/23/96

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation				214.2	ft msl
pH				4.6	pH
Sp. conductance				36	µS/cm
Water temperature				25.0	°C
Alkalinity as CaCO ₃					mg/L
Turbidity				1	NTU
Volume purged					well volume
Sampling code				C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene				<50	25		µg/L	GE	0	
		1,1-Dichloroethane				<50	25		µg/L	GE	0	
		1,1-Dichloroethylene				<50	25		µg/L	GE	0	
		trans-1,2-Dichloroethylene				<50	25		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane				<50	25		µg/L	GE	0	
		Tetrachloroethylene				<50	25		µg/L	GE	0	
		1,1,1-Trichloroethane				<50	25		µg/L	GE	0	
		Trichloroethylene				1,900	25		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 13B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105803.3 E53516.3	33.347079 °N 81.731452 °W	138.2-113.0 ft msl	336.2 ft msl	6" CS	O	

SAMPLE DATE

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					well volume
Sampling code					

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene
1,1-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
Trichloroethylene

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.
● = exceeded holding time for April 1996.
■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 13C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105809.7 E53502.2	33.347070 °N 81.731501 °W	173.4-153.3 ft msl	336.4 ft msl	6" CS	O	

SAMPLE DATE

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					well volume
Sampling code					

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene
1,1-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
Trichloroethylene

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 14B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106362.1 E53044.7	33.347544 °N 81.733781 °W	148.5-123.2 ft msl	351.2 ft msl	6" CS	O	

SAMPLE DATE

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					well volume
Sampling code					

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene									
		1,1-Dichloroethane									
		1,1-Dichloroethylene									
		trans-1,2-Dichloroethylene									
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane									
		Tetrachloroethylene									
		1,1,1-Trichloroethane									
		Trichloroethylene									

Monitoring Constituents

H	SI	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 14C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106380.8 E53051.5	33.347596 °N 81.733800 °W	193.5-173.4 ft msl	351.4 ft msl	6" CS	O	

SAMPLE DATE

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					well volume
Sampling code					

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene
1,1-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
Trichloroethylene

Monitoring Constituents

H	ST	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

WELL RWM 15B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107444.7 E53849.0	33.351250 °N 81.733769 °W	150.9-125.8 ft msl	369.5 ft msl	6" CS	O	

SAMPLE DATE

FIELD DATA

Parameter	M1	M2	M3	M4	Unit
Water elevation					ft msl
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					well volume
Sampling code					

ANALYTICAL DATA

Groundwater Protection Standard

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H	SI	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene
1,1-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
Trichloroethylene

Monitoring Constituents

H	SI	Parameter	M1	M2	M3	M4	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for April 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for April 1996.

■ = exceeded groundwater protection or monitoring constituent standards for April 1996.

Table D-5b. Groundwater Monitoring Results for Recovery Wells, May–August 1996

WELL RWM 1

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102599.1 E48575.1	33.331926 °N 81.738231 °W	232.3-172.3 ft msl	364.7 ft msl	8" CS	S	
SAMPLE DATE		05/03/96	07/02/96	08/06/96		
FIELD DATA						
Parameter		M5	M6	M7	M8	Unit
Water elevation						ft msl
pH		4.0		4.8	4.4	pH
Sp. conductance		84		98	100	µS/cm
Water temperature		26.0		28.0	26.0	°C
Alkalinity as CaCO ₃		0		0	0	mg/L
Turbidity		1		2	3	NTU
Volume purged						well volume
Sampling code		C		CS	CS	

ANALYTICAL DATA

Groundwater Protection Standard

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H	SI	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<1,000		<1,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethane	<1,000		<1,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethylene	<1,000		<1,000	<2,000	1000		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1,000		<1,000	<2,000	1000		µg/L	GE	0
		PCB 1016			<0.63				µg/L		
		PCB 1221			<0.63				µg/L		
		PCB 1232			<0.63				µg/L		
		PCB 1242			<0.63				µg/L		
		PCB 1248			<0.63				µg/L		
		PCB 1254			<0.63				µg/L		
		PCB 1260			<0.63				µg/L		
		1,1,2,2-Tetrachloroethane	<1,000		<1,000	<2,000	1000		µg/L	GE	0
■		Tetrachloroethylene	6,800		11,000	7,800	1000		µg/L	GE	2
		1,1,1-Trichloroethane	<1,000		<1,000	<2,000	1000		µg/L	GE	0
■		Trichloroethylene	20,000		21,000	22,000	1000		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 2

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104434.1 E49205.5	33.337012 °N 81.740141 °W	208.3-198.3 ft msl	371.3 ft msl		S	

SAMPLE DATE 05/31/96

FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	225.6				ft msl
pH					pH
Sp. conductance					µS/cm
Water temperature					°C
Alkalinity as CaCO ₃					mg/L
Turbidity					NTU
Volume purged					well volume
Sampling code	P				

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene
1,1-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
PCB 1016
PCB 1221
PCB 1232
PCB 1242
PCB 1248
PCB 1254
PCB 1260
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
Trichloroethylene

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	----	----	----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 3

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104730.2 E49680.0	33.338441 °N 81.739467 °W	214.0-204.0 ft msl	377 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	213.2	212.9			ft msl
pH	3.2	5.6	3.8	4.2	pH
Sp. conductance	104	260	260	140	µS/cm
Water temperature	28.0	26.0	30.0	27.0	°C
Alkalinity as CaCO ₃	0	0	0	0	mg/L
Turbidity	3	2	2	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<200	<1,000	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<200	<1,000	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<200	<1,000	<500	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<200	<1,000	<500	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<200	<1,000	<500	<200	100		µg/L	GE	0
■		Tetrachloroethylene	2,200	<1,000	1,300	1,700	100		µg/L	GE	2
		1,1,1-Trichloroethane	<200	<1,000	<500	<200	100		µg/L	GE	0
■		Trichloroethylene	6,700	7,100	3,300	4,500	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 4

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103719.3 E48948.2	33.335012 °N 81.739427 °W	211.9-201.6 ft msl	366.5 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	207.2	207.2	207.2	206.5	ft msl
pH	5.0	5.0	5.8	4.4	pH
Sp. conductance	28	48	68	120	µS/cm
Water temperature	22.0	24.0	27.0	25.0	°C
Alkalinity as CaCO ₃	0	1	1	1	mg/L
Turbidity	1	3	2	1	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<200	<500	<200	<400	200		µg/L	GE	0	
		1,1-Dichloroethane	<200	<500	<200	<400	200		µg/L	GE	0	
		1,1-Dichloroethylene	<200	<500	<200	<400	200		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<200	<500	<200	<400	200		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<200	<500	<200	<400	200		µg/L	GE	0	
	■	Tetrachloroethylene	680	430	570	540	200		µg/L	GE	2	
		1,1,1-Trichloroethane	<200	<500	<200	<400	200		µg/L	GE	0	
	■	Trichloroethylene	6,700	6,900	4,700	4,700	200		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103502.2 E49628.0	33.335642 °N 81.737215 °W	216.8-206.4 ft msl	366.9 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	211.9	211.9	212.0	211.3	ft msl
pH	3.2	6.0	5.0	4.8	pH
Sp. conductance	102	120	69	54	µS/cm
Water temperature	30.0	26.0	29.0	28.0	°C
Alkalinity as CaCO ₃	0	2	0	0	mg/L
Turbidity	2	1	5	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<100	<100	<50	<50	25		µg/L	GE	0	
		1,1-Dichloroethane	<100	<100	<50	<50	25		µg/L	GE	0	
		1,1-Dichloroethylene	<100	<100	<50	<50	25		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<100	<100	<50	<50	25		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<100	<100	<50	<50	25		µg/L	GE	0	
	■	Tetrachloroethylene	850	460	380	530	25		µg/L	GE	2	
		1,1,1-Trichloroethane	<100	<100	<50	<50	25		µg/L	GE	0	
	■	Trichloroethylene	950	1,400	610	960	25		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102001.5 E50107.4	33.333107 °N 81.733033 °W	218.7-208.4 ft msl	349.1 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation		164.1	166.1	164.5	ft msl
pH	4.6	4.6	3.8	4.2	pH
Sp. conductance	50	230	200	100	µS/cm
Water temperature	28.0	24.0	27.0	26.0	°C
Alkalinity as CaCO ₃	0	1	0	1	mg/L
Turbidity	1	2	1	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<50	<500	<200	<200	100		µg/L	GE	0	
		1,1-Dichloroethane	<50	<500	<200	<200	100		µg/L	GE	0	
		1,1-Dichloroethylene	<50	<500	<200	<200	100		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<200	<500	<200	<200	100		µg/L	GE	0	
		PCB 1016			<0.25				µg/L			
		PCB 1221			<0.25				µg/L			
		PCB 1232			<0.25				µg/L			
		PCB 1242			<0.25				µg/L			
		PCB 1248			<0.25				µg/L			
		PCB 1254			<0.25				µg/L			
		PCB 1260			<0.25				µg/L			
		1,1,2,2-Tetrachloroethane	<50	<500	<200	<200	100		µg/L	GE	0	
■		Tetrachloroethylene	11,000	3,700	4,300	3,400	100		µg/L	GE	2	
		1,1,1-Trichloroethane	<50	<500	<200	<200	100		µg/L	GE	0	
■		Trichloroethylene	4,700	3,900	2,600	3,100	100		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 7

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101904.6 E49449.5	33.331819 °N 81.734577 °W	216.3-206.0 ft msl	349 ft msl	8" CS	S	

SAMPLE DATE 05/03/96

FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	194.8				ft msl
pH	4.6				pH
Sp. conductance	66				µS/cm
Water temperature	24.0				°C
Alkalinity as CaCO ₃	0				mg/L
Turbidity	2				NTU
Volume purged					well volume
Sampling code	C				

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene	<200					µg/L
1,1-Dichloroethane	<200					µg/L
1,1-Dichloroethylene	<200					µg/L
trans-1,2-Dichloroethylene	<200					µg/L
PCB 1016						
PCB 1221						
PCB 1232						
PCB 1242						
PCB 1248						
PCB 1254						
PCB 1260						
1,1,2,2-Tetrachloroethane	<200					µg/L
Tetrachloroethylene	6,900					µg/L
1,1,1-Trichloroethane	<200					µg/L
Trichloroethylene	7,900					µg/L

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 8

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101948.2 E47353.3	33.328492 °N 81.740182 °W	197.2-186.9 ft msl	348.3 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	203.3	202.9	203.0		ft msl
pH	3.8	5.8	4.0		pH
Sp. conductance	204	380	200		µS/cm
Water temperature	28.0	24.0	26.0		°C
Alkalinity as CaCO ₃	0	1	0		mg/L
Turbidity	2	4	1		NTU
Volume purged					well volume
Sampling code	C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<20	<40	<20				µg/L		
		1,1-Dichloroethane	<20	<40	<20				µg/L		
		1,1-Dichloroethylene	<20	<40	<20				µg/L		
		trans-1,2-Dichloroethylene	<20	<40	<20				µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<20	<40	<20				µg/L		
		Tetrachloroethylene	550	300	310				µg/L		
		1,1,1-Trichloroethane	<20	<40	<20				µg/L		
		Trichloroethylene	1,100	1,000	440				µg/L		

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 9

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104099.8 E50400.0	33.338224 °N 81.736345 °W	220.6-210.2 ft msl	380.6 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	224.2	224.1	224.1	223.5	ft msl
pH	5.0	5.2	4.0	5.0	pH
Sp. conductance	52	140	160	120	µS/cm
Water temperature	24.0	24.0	28.0	28.0	°C
Alkalinity as CaCO ₃	1	1	0	2	mg/L
Turbidity	1	2	1	3	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<2.0	<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<2.0	<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<2.0	<10	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<2.0	<10	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<2.0	<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene	<2.0	<10	<2.0	1.0	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<2.0	<10	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	39	43	30	41	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 10

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102000.9 E48244.1	33.330063 °N 81.737938 °W	215.5-205.1 ft msl	355.5 ft msl	8" CS	S	

SAMPLE DATE	05/03/96	06/07/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	179.4	177.0	178.2	176.3	ft msl
pH	4.6	4.6	5.0	4.6	pH
Sp. conductance	74	120	92	90	µS/cm
Water temperature	27.0	24.0	29.0	26.0	°C
Alkalinity as CaCO ₃	0	0	1	0	mg/L
Turbidity	2	7	2	1	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<200	<500	<200	<200	100		µg/L	GE	0	
		1,1-Dichloroethane	<200	<500	<200	<200	100		µg/L	GE	0	
		1,1-Dichloroethylene	<200	<500	<200	<200	100		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<200	<500	<200	<200	100		µg/L	GE	0	
		PCB 1016			<0.63				µg/L			
		PCB 1221			<0.63				µg/L			
		PCB 1232			<0.63				µg/L			
		PCB 1242			<0.63				µg/L			
		PCB 1248			<0.63				µg/L			
		PCB 1254			<0.63				µg/L			
		PCB 1260			<0.63				µg/L			
		1,1,2,2-Tetrachloroethane	<200	<500	<200	<200	100		µg/L	GE	0	
	■	Tetrachloroethylene	7,100	7,000	7,500	5,800	100		µg/L	GE	2	
		1,1,1-Trichloroethane	<200	<500	<200	<200	100		µg/L	GE	0	
	■	Trichloroethylene	5,600	6,400	4,100	4,800	100		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 11

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104875.0 E50400.2	33.339938 °N 81.737852 °W	214.6-204.2 ft msl	383.3 ft msl	8" CS	S	
SAMPLE DATE		05/03/96	06/07/96	07/02/96	08/06/96	
FIELD DATA						
Parameter	M5	M6	M7	M8		Unit
Water elevation	213.1	212.7	213.1	211.9		ft msl
pH	3.2	4.8	4.0	4.8		pH
Sp. conductance	100	240	160	40		µS/cm
Water temperature	24.0	24.0	26.0	27.0		°C
Alkalinity as CaCO ₃	0	0	0	0		mg/L
Turbidity	5	1	1	2		NTU
Volume purged						well volume
Sampling code	C	C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<50	<200	<200	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<50	<200	<200	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<50	<200	<200	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<50	<200	<200	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<50	<200	<200	<200	100		µg/L	GE	0
■		Tetrachloroethylene	150	<200	<200	100	100	JE	µg/L	GE	2
		1,1,1-Trichloroethane	<50	<200	<200	<200	100		µg/L	GE	0
■		Trichloroethylene	1,200	1,600	680	1,300	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 12

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106879.2 E52500.1	33.347797 °N 81.736222 °W	210.4-189.9 ft msl	359.4 ft msl	6" CS/SS	S	

SAMPLE DATE 05/03/96

FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation	214.2				ft msl
pH	3.8				pH
Sp. conductance	104				µS/cm
Water temperature	22.0				°C
Alkalinity as CaCO ₃	0				mg/L
Turbidity	11				NTU
Volume purged					well volume
Sampling code	C				

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<50						µg/L		
		1,1-Dichloroethane	<50						µg/L		
		1,1-Dichloroethylene	<50						µg/L		
		trans-1,2-Dichloroethylene	<50						µg/L		
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<50						µg/L		
		Tetrachloroethylene	<50						µg/L		
		1,1,1-Trichloroethane	<50						µg/L		
		Trichloroethylene	2,100						µg/L		

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 13B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105803.3 E53516.3	33.347079 °N 81.731452 °W	138.2-113.0 ft msl	336.2 ft msl	6" CS	O	
SAMPLE DATE		06/27/96	07/02/96	08/07/96		
FIELD DATA						
Parameter		M5	M6	M7	M8	Unit
Water elevation						ft msl
pH		6.4	4.0	4.4		pH
Sp. conductance		120	120	160		µS/cm
Water temperature			28.0	26.0		°C
Alkalinity as CaCO ₃		2	0	1		mg/L
Turbidity		7	4	3		NTU
Volume purged						well volume
Sampling code		C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	SI	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene		<2.0	<500	<100	50		µg/L	GE	0
		1,1-Dichloroethane		<2.0	<500	<100	50		µg/L	GE	0
		1,1-Dichloroethylene		<2.0	<500	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene		<2.0	<500	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<2.0	<500	<100	50		µg/L	GE	0
		Tetrachloroethylene		23	<500	<100	50		µg/L	GE	0
		1,1,1-Trichloroethane		<2.0	<500	<100	50		µg/L	GE	0
		Trichloroethylene		4,900	2,900	3,600	50		µg/L	GE	2

Monitoring Constituents

H	SI	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 13C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105809.7 E53502.2	33.347070 °N 81.731501 °W	173.4-153.3 ft msl	336.4 ft msl	6" CS	O	

SAMPLE DATE	06/20/96	07/02/96	08/07/96

FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation					ft msl
pH		4.8	4.8	4.8	pH
Sp. conductance		40	58	46	µS/cm
Water temperature			30.0	27.0	°C
Alkalinity as CaCO ₃		1	0	1	mg/L
Turbidity		4	3	3	NTU
Volume purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene		<2.0	<500	<100	50		µg/L	GE	0
		1,1-Dichloroethane		<2.0	<500	<100	50		µg/L	GE	0
		1,1-Dichloroethylene		<2.0	<500	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene		<2.0	<500	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<2.0	<500	<100	50		µg/L	GE	0
		Tetrachloroethylene		23	<500	<100	50		µg/L	GE	0
		1,1,1-Trichloroethane		<2.0	<500	<100	50		µg/L	GE	0
		■ Trichloroethylene		3,800	2,400	4,000	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 14B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106362.1 E53044.7	33.347544 °N 81.733781 °W	148.5-123.2 ft msl	351.2 ft msl	6" CS	O	

SAMPLE DATE	06/27/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation					ft msl
pH	4.8	5.4	4.2		pH
Sp. conductance	220	140	32		µS/cm
Water temperature		27.0	28.0		°C
Alkalinity as CaCO ₃	1	1	1		mg/L
Turbidity	4	11	3		NTU
Volume purged					well volume
Sampling code	C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene		<2.0	<500	<100	50		µg/L	GE	0
		1,1-Dichloroethane		<2.0	<500	<100	50		µg/L	GE	0
		1,1-Dichloroethylene		<2.0	<500	<100	50		µg/L	GE	0
		trans-1,2-Dichloroethylene		<2.0	<500	<100	50		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<2.0	<500	<100	50		µg/L	GE	0
		Tetrachloroethylene		31	<500	<100	50		µg/L	GE	0
		1,1,1-Trichloroethane		<2.0	<500	<100	50		µg/L	GE	0
		Trichloroethylene		1,300	1,500	1,100	50		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 14C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106380.8 E53051.5	33.347596 °N 81.733800 °W	193.5-173.4 ft msl	351.4 ft msl	6" CS	O	

SAMPLE DATE	06/20/96	07/02/96	08/06/96
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FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation					ft msl
pH		4.6	5.2	4.4	pH
Sp. conductance		50	70	220	µS/cm
Water temperature			28.0	26.0	°C
Alkalinity as CaCO ₃		0	1	1	mg/L
Turbidity		15	14	20	NTU
Volume purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene		<2.0	<200	<100	50		µg/L	GE	0	
		1,1-Dichloroethane		<2.0	<200	<100	50		µg/L	GE	0	
		1,1-Dichloroethylene		6.5	<200	<100	50		µg/L	GE	0	
		trans-1,2-Dichloroethylene		<2.0	<200	<100	50		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane		<2.0	<200	<100	50		µg/L	GE	0	
	■	Tetrachloroethylene		38	<200	71	50	JE	µg/L	GE	2	
		1,1,1-Trichloroethane		96	<200	140	50		µg/L	GE	1	
	■	Trichloroethylene		6,300	5,900	4,500	50		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

WELL RWM 15B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107444.7 E53849.0	33.351250 °N 81.733769 °W	150.9-125.8 ft msl	369.5 ft msl	6" CS	O	

SAMPLE DATE	06/20/96	07/02/96	08/06/96

FIELD DATA

Parameter	M5	M6	M7	M8	Unit
Water elevation			211.2	209.9	ft msl
pH	4.8	6.4	6.2		pH
Sp. conductance	40	200	160		µS/cm
Water temperature		29.0	28.0		°C
Alkalinity as CaCO ₃	1	1	0		mg/L
Turbidity	6	3	10		NTU
Volume purged					well volume
Sampling code	C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene		<10	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene		<10	<2.0	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		Tetrachloroethylene		<10	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane		<10	<2.0	<2.0	1		µg/L	GE	0
		■ Trichloroethylene		96	63	59	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M5	M6	M7	M8	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for August 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for August 1996.

■ = exceeded groundwater protection or monitoring constituent standards for August 1996.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, September–December 1996**WELL RWM 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>
N102599.1 E48575.1	33.331926 °N 81.738231 °W	232.3-172.3 ft msl	364.7 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/19/96	12/06/96
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FIELD DATA

<u>Parameter</u>	<u>M9</u>	<u>M10</u>	<u>M11</u>	<u>M12</u>	<u>Unit</u>
Water elevation					ft msl
pH	3.6	3.6	4.8	4.2	pH
Sp. conductance	180	100	60	68	µS/cm
Water temperature	20.0	21.0	25.0	23.0	°C
Alkalinity as CaCO ₃	0	0	1	1	mg/L
Turbidity	2	5	6	3	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA**Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>H</u>	<u>ST</u>	<u>Parameter</u>	<u>M9</u>	<u>M10</u>	<u>M11</u>	<u>M12</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<2,000	<2,000	<1,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethane	<2,000	<2,000	<1,000	<2,000	1000		µg/L	GE	0
		1,1-Dichloroethylene	<2,000	<2,000	<1,000	<2,000	1000		µg/L	GE	0
		trans-1,2-Dichloroethylene	<2,000	<2,000	<1,000	<2,000	1000		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<2,000	<2,000	<1,000	<2,000	1000		µg/L	GE	0
■		Tetrachloroethylene	9,500	8,500	10,000	7,900	1000		µg/L	GE	2
		1,1,1-Trichloroethane	<2,000	<2,000	<1,000	<2,000	1000		µg/L	GE	0
■		Trichloroethylene	27,000	21,000	21,000	26,000	1000		µg/L	GE	2

Monitoring Constituents

<u>H</u>	<u>ST</u>	<u>Parameter</u>	<u>M9</u>	<u>M10</u>	<u>M11</u>	<u>M12</u>	<u>DF</u>	<u>Mod</u>	<u>Unit</u>	<u>Lab</u>	<u>Flag</u>
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 2

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104434.1 E49205.5	33.337012 °N 81.740141 °W	208.3-198.3 ft msl	371.3 ft msl		S	

SAMPLE DATE	10/09/96	11/15/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation			156.8		ft msl
pH	3.6	4.0	4.2		pH
Sp. conductance	100	90	100		µS/cm
Water temperature	20.0	24.0	24.0		°C
Alkalinity as CaCO ₃	0	0	1		mg/L
Turbidity	5	5	2		NTU
Volume purged					well volume
Sampling code	C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

•		Chlorobenzene		<2,000	<1,000	<1,000	500	J1	µg/L	GE	0
•		1,1-Dichloroethane		<2,000	<1,000	<1,000	500	J1	µg/L	GE	0
•		1,1-Dichloroethylene		<2,000	<1,000	<1,000	500	J1	µg/L	GE	0
•		trans-1,2-Dichloroethylene		<2,000	<1,000	<1,000	500	J1	µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
•		1,1,2,2-Tetrachloroethane		<2,000	<1,000	<1,000	500	J1	µg/L	GE	0
•	■	Tetrachloroethylene		17,000	17,000	11,000	500	J1	µg/L	GE	2
•		1,1,1-Trichloroethane		<2,000	<1,000	<1,000	500	J1	µg/L	GE	0
•	■	Trichloroethylene		17,000	14,000	15,000	500	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

• = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 3

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104730.2 E49680.0	33.338441 °N 81.739467 °W	214.0-204.0 ft msl	377 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/15/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	212.3	305.0		212.6	ft msl
pH	4.6	3.8	3.8	4.8	pH
Sp. conductance	60	80	68	50	µS/cm
Water temperature	20.0	21.0	24.0	24.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	2	4	4	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene	<1,000	<500	<500	<500	250		µg/L	GE	0	
		1,1-Dichloroethane	<1,000	<500	<500	<500	250		µg/L	GE	0	
		1,1-Dichloroethylene	<1,000	<500	<500	<500	250		µg/L	GE	0	
		trans-1,2-Dichloroethylene	<1,000	<500	<500	<500	250		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane	<1,000	<500	<500	<500	250		µg/L	GE	0	
		■ Tetrachloroethylene	1,900	2,000	2,200	1,900	250		µg/L	GE	2	
		1,1,1-Trichloroethane	<1,000	<500	<500	<500	250		µg/L	GE	0	
		■ Trichloroethylene	5,800	5,600	4,700	5,600	250		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 4

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103719.3 E48948.2	33.335012 °N 81.739427 °W	211.9-201.6 ft msl	366.5 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/19/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	206.8		206.5	205.8	ft msl
pH	4.6	3.8	4.0	3.8	pH
Sp. conductance	46	74	28	40	µS/cm
Water temperature	18.0	20.0	24.0	21.0	°C
Alkalinity as CaCO ₃	0	0	0	1	mg/L
Turbidity	1	3	2	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene	<400	<500	<200	<500	250	µg/L	GE	0
1,1-Dichloroethane	<400	<500	<200	<500	250	µg/L	GE	0
1,1-Dichloroethylene	<400	<500	<200	<500	250	µg/L	GE	0
trans-1,2-Dichloroethylene	<400	<500	<200	<500	250	µg/L	GE	0
PCB 1016								
PCB 1221								
PCB 1232								
PCB 1242								
PCB 1248								
PCB 1254								
PCB 1260								
■ 1,1,2,2-Tetrachloroethane	<400	<500	<200	<500	250	µg/L	GE	0
■ Tetrachloroethylene	560	<500	780	550	250	µg/L	GE	2
■ 1,1,1-Trichloroethane	<400	<500	<200	<500	250	µg/L	GE	0
■ Trichloroethylene	5,700	6,800	5,800	6,500	250	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103502.2 E49628.0	33.335642 °N 81.737215 °W	216.8-206.4 ft msl	366.9 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/15/96	12/06/96

FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	211.9	211.4	210.8	210.5	ft msl
pH	4.2	3.8	4.4	4.6	pH
Sp. conductance	50	64	24	32	µS/cm
Water temperature	19.0	20.0	25.0	24.0	°C
Alkalinity as CaCO ₃	0	0	1	1	mg/L
Turbidity	3	2	3	1	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<50	<100	<100	<50	25		µg/L	GE	0
		1,1-Dichloroethane	<50	<100	<100	<50	25		µg/L	GE	0
		1,1-Dichloroethylene	<50	<100	<100	<50	25		µg/L	GE	0
		trans-1,2-Dichloroethylene	<50	<100	<100	<50	25		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<50	<100	<100	<50	25		µg/L	GE	0
	■	Tetrachloroethylene	530	650	640	620	25		µg/L	GE	2
		1,1,1-Trichloroethane	<50	<100	<100	<50	25		µg/L	GE	0
	■	Trichloroethylene	1,200	1,200	980	1,300	25		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102001.5 E50107.4	33.333107 °N 81.733033 °W	218.7-208.4 ft msl	349.1 ft msl	8" CS	S	
SAMPLE DATE		09/05/96	10/09/96	11/15/96	12/06/96	
FIELD DATA						
Parameter		M9	M10	M11	M12	Unit
Water elevation		196.0	180.3		188.1	ft msl
pH		4.2	3.8	4.4	4.6	pH
Sp. conductance		54	100	32	30	µS/cm
Water temperature		18.0	21.0	24.0	23.0	°C
Alkalinity as CaCO ₃		0	0	1	1	mg/L
Turbidity		2	4	2	2	NTU
Volume purged						well volume
Sampling code		C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
Inorganics											
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
Organics											
		Chlorobenzene	<200	<500	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethane	<200	<500	<500	<200	100		µg/L	GE	0
		1,1-Dichloroethylene	<200	<500	<500	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene	<200	<500	<500	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<200	<500	<500	<200	100		µg/L	GE	0
■		Tetrachloroethylene	3,600	5,900	5,300	4,300	100		µg/L	GE	2
		1,1,1-Trichloroethane	<200	<500	<500	<200	100		µg/L	GE	0
■		Trichloroethylene	3,300	4,100	3,500	3,700	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
Inorganics											
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
Radionuclides											
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 7

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101904.6 E49449.5	33.331819 °N 81.734577 °W	216.3-206.0 ft msl	349 ft msl	8" CS	S	

SAMPLE DATE	10/09/96	11/19/96	12/06/96
FIELD DATA			

FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation		200.0	194.1	193.6	ft msl
pH		3.6	4.6	4.6	pH
Sp. conductance		120	54	62	µS/cm
Water temperature		21.0	25.0	23.0	°C
Alkalinity as CaCO ₃		0	1	1	mg/L
Turbidity		6	4	2	NTU
Volume purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene		<200	<200	<200	100		µg/L	GE	0
		1,1-Dichloroethane		<200	<200	<200	100		µg/L	GE	0
		1,1-Dichloroethylene		<200	<200	<200	100		µg/L	GE	0
		trans-1,2-Dichloroethylene		<200	<200	<200	100		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane		<200	<200	<200	100		µg/L	GE	0
	■	Tetrachloroethylene		7,200	7,900	7,400	100		µg/L	GE	2
		1,1,1-Trichloroethane		<200	<200	<200	100		µg/L	GE	0
	■	Trichloroethylene		3,700	6,400	7,600	100		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 8

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N101948.2 E47353.3	33.328492 °N 81.740182 °W	197.2-186.9 ft msl	348.3 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/19/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation		202.9	202.3	202.2	ft msl
pH		4.2	4.6	4.6	pH
Sp. conductance		100	90	100	µS/cm
Water temperature		20.0	24.0	22.0	°C
Alkalinity as CaCO ₃		0	1	1	mg/L
Turbidity		8	3	3	NTU
Volume purged					well volume
Sampling code	P	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene		<100	<20	<40	20	µg/L	GE	0
1,1-Dichloroethane		<100	<20	<40	20	µg/L	GE	0
1,1-Dichloroethylene		<100	<20	<40	20	µg/L	GE	0
trans-1,2-Dichloroethylene		<100	<20	<40	20	µg/L	GE	0
PCB 1016								
PCB 1221								
PCB 1232								
PCB 1242								
PCB 1248								
PCB 1254								
PCB 1260								
1,1,2,2-Tetrachloroethane		<100	<20	<40	20	µg/L	GE	0
■ Tetrachloroethylene		530	470	510	20	µg/L	GE	2
1,1,1-Trichloroethane		<100	<20	<40	20	µg/L	GE	0
■ Trichloroethylene		1,100	720	1,100	20	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 9

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104099.8 E50400.0	33.338224 °N 81.736345 °W	220.6-210.2 ft msl	380.6 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/15/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	223.7	223.6	222.7	223.1	ft msl
pH	4.2	3.6	5.2	5.2	pH
Sp. conductance	80	100	44	48	µS/cm
Water temperature	19.0	21.0	23.0	23.0	°C
Alkalinity as CaCO ₃	0	0	1	1	mg/L
Turbidity	1	2	4	1	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
		Chlorobenzene	<2.0	<10	<10	<4.0	2		µg/L	GE	0
		1,1-Dichloroethane	<2.0	<10	<10	<4.0	2		µg/L	GE	0
		1,1-Dichloroethylene	<2.0	<10	<10	<4.0	2		µg/L	GE	0
		trans-1,2-Dichloroethylene	<2.0	<10	<10	<4.0	2		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane	<2.0	<10	<10	<4.0	2		µg/L	GE	0
		Tetrachloroethylene	1.1	<10	<10	<4.0	2		µg/L	GE	0
		1,1,1-Trichloroethane	<2.0	<10	<10	<4.0	2		µg/L	GE	0
		■ Trichloroethylene	53	71	62	82	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 10

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102000.9 E48244.1	33.330063 °N 81.737938 °W	215.5-205.1 ft msl	355.5 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/19/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	177.1	180.1	180.4	179.6	ft msl
pH	4.4	3.4	4.6	4.8	pH
Sp. conductance	84	140	64	70	µS/cm
Water temperature	18.0	21.0	23.0	21.0	°C
Alkalinity as CaCO ₃	0	0	1	1	mg/L
Turbidity	1	3	3	2	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

251 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene	<400	<500	<200	<200	100	µg/L	GE	0
1,1-Dichloroethane	<400	<500	<200	<200	100	µg/L	GE	0
1,1-Dichloroethylene	<400	<500	<200	<200	100	µg/L	GE	0
trans-1,2-Dichloroethylene	<400	<500	<200	<200	100	µg/L	GE	0
PCB 1016								
PCB 1221								
PCB 1232								
PCB 1242								
PCB 1248								
PCB 1254								
PCB 1260								
1,1,2,2-Tetrachloroethane	<400	<500	<200	<200	100	µg/L	GE	0
■ Tetrachloroethylene	5,900	9,100	7,700	7,800	100	µg/L	GE	2
1,1,1-Trichloroethane	<400	<500	<200	<200	100	µg/L	GE	0
■ Trichloroethylene	5,100	5,500	4,900	6,400	100	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 11

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104875.0 E50400.2	33.339938 °N 81.737852 °W	214.6-204.2 ft msl	383.3 ft msl	8" CS	S	

SAMPLE DATE	09/05/96	10/09/96	11/15/96	12/06/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation	212.4	212.6	212.3	212.1	ft msl
pH	4.2	3.6	4.6	4.6	pH
Sp. conductance	50	80	26	28	µS/cm
Water temperature	18.0	21.0	22.0	22.0	°C
Alkalinity as CaCO ₃	0	0	1	1	mg/L
Turbidity	1	2	7	1	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Barium, total recoverable									
		Cyanide									
		Lead, total recoverable									
		Nickel, total recoverable									
		Selenium, total recoverable									
		Organics									
●		Chlorobenzene	<20	<200	<200	<50	25	J1	µg/L	GE	0
●		1,1-Dichloroethane	<20	<200	<200	<50	25	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<20	<200	<200	<50	25	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<20	<200	<200	<50	25	J1	µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
●		1,1,2,2-Tetrachloroethane	<20	<200	<200	<50	25	J1	µg/L	GE	0
●	■	Tetrachloroethylene	72	<200	<200	85	25	J1	µg/L	GE	2
●		1,1,1-Trichloroethane	<20	<200	<200	<50	25	J1	µg/L	GE	0
●	■	Trichloroethylene	1,200	1,400	1,100	1,300	25	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
		Inorganics									
		Aluminum, total recoverable									
		Chloride									
		Chromium, total recoverable									
		Cobalt, total recoverable									
		Copper, total recoverable									
		Fluoride									
		Manganese, total recoverable									
		Mercury, total recoverable									
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen									
		Sodium, total recoverable									
		Sulfate									
		Total phosphates (as P)									
		Uranium, total recoverable									
		Zinc, total recoverable									
		Radionuclides									
		Gross alpha									
		Nonvolatile beta									
		Radium, total alpha-emitting									

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 12

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106879.2 E52500.1	33.347797 °N 81.736222 °W	210.4-189.9 ft msl	359.4 ft msl	6" CS/SS	S	

SAMPLE DATE	11/15/96	12/11/96

FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation			213.4	213.0	ft msl
pH			5.0	3.8	pH
Sp. conductance			34	120	µS/cm
Water temperature			24.0	25.0	°C
Alkalinity as CaCO ₃			1	1	mg/L
Turbidity			3	12	NTU
Volume purged					well volume
Sampling code			C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

		Chlorobenzene			<100	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane			<100	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene			<100	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene			<100	<2.0	1		µg/L	GE	0
		PCB 1016									
		PCB 1221									
		PCB 1232									
		PCB 1242									
		PCB 1248									
		PCB 1254									
		PCB 1260									
		1,1,2,2-Tetrachloroethane			<100	<2.0	1		µg/L	GE	0
■		Tetrachloroethylene			<100	12	1		µg/L	GE	2
		1,1,1-Trichloroethane			<100	<2.0	1		µg/L	GE	0
● ■		Trichloroethylene			3,300	2,500	25	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	-----	-----	-----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 13B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105803.3 E53516.3	33.347079 °N 81.731452 °W	138.2-113.0 ft msl	336.2 ft msl	6" CS	O	

SAMPLE DATE	10/11/96	11/15/96	12/11/96

FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation					ft msl
pH		4.2	4.6	4.6	pH
Sp. conductance		28	26	28	µS/cm
Water temperature		18.0	21.0	25.0	°C
Alkalinity as CaCO ₃		1	1	1	mg/L
Turbidity		6	6	4	NTU
Volume purged					well volume
Sampling code		C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene		<100	<2,000	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane		<100	<2,000	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene		<100	<2,000	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene		<100	<2,000	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane		<100	<2,000	<2.0	1		µg/L	GE	0	
	■	Tetrachloroethylene		<100	<2,000	27	1		µg/L	GE	2	
		1,1,1-Trichloroethane		<100	<2,000	<2.0	1		µg/L	GE	0	
●	■	Trichloroethylene		3,100	3,600	2,500	25	J1	µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 13C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N105809.7 E53502.2	33.347070 °N 81.731501 °W	173.4-153.3 ft msl	336.4 ft msl	6" CS	O	

SAMPLE DATE	10/11/96	11/15/96	12/11/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation					ft msl
pH	3.8	4.4	4.8		pH
Sp. conductance	42	56	36		µS/cm
Water temperature	18.0	20.0	24.0		°C
Alkalinity as CaCO ₃	0	1	1		mg/L
Turbidity	7	8	2		NTU
Volume purged					well volume
Sampling code	C	C	C		

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene		<100	<2,000	<2.0	1		µg/L	GE	0
1,1-Dichloroethane		<100	<2,000	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene		<100	<2,000	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene		<100	<2,000	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane		<100	<2,000	<2.0	1		µg/L	GE	0
■ Tetrachloroethylene		<100	<2,000	47	1		µg/L	GE	2
1,1,1-Trichloroethane		<100	<2,000	<2.0	1		µg/L	GE	0
● ■ Trichloroethylene		3,300	4,000	4,900	100	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	-----	-----	-----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 14B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106362.1 E53044.7	33.347544 °N 81.733781 °W	148.5-123.2 ft msl	351.2 ft msl	6" CS	O	

SAMPLE DATE	09/05/96	10/11/96	11/15/96	12/11/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation					ft msl
pH		4.4	4.2	4.8	pH
Sp. conductance		32	30	30	µS/cm
Water temperature		19.0	22.0	25.0	°C
Alkalinity as CaCO ₃		1	1	1	mg/L
Turbidity		11	4	3	NTU
Volume purged					well volume
Sampling code	P	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	-----	-----	-----	----	-----	------	-----	------

Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene		<100	<1,000	<2.0	1		µg/L	GE	0
1,1-Dichloroethane		<100	<1,000	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene		<100	<1,000	<2.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene		<100	<1,000	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane		<100	<1,000	<2.0	1		µg/L	GE	0
■ Tetrachloroethylene		<100	<1,000	18	1		µg/L	GE	2
1,1,1-Trichloroethane		<100	<1,000	<2.0	1		µg/L	GE	0
● ■ Trichloroethylene		1,600	1,700	1,700	25	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 14C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N106380.8 E53051.5	33.347596 °N 81.733800 °W	193.5-173.4 ft msl	351.4 ft msl	6" CS	O	

SAMPLE DATE	09/05/96	10/11/96	11/15/96	12/11/96
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FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation					ft msl
pH		4.2	4.8	4.8	pH
Sp. conductance		48	26	40	µS/cm
Water temperature		19.0	23.0	26.0	°C
Alkalinity as CaCO ₃		1	1	1	mg/L
Turbidity		14	13	3	NTU
Volume purged					well volume
Sampling code	P	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
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Inorganics

Barium, total recoverable
Cyanide
Lead, total recoverable
Nickel, total recoverable
Selenium, total recoverable

Organics

Chlorobenzene		<100	<800	<2.0	1		µg/L	GE	0
1,1-Dichloroethane		<100	<800	<2.0	1		µg/L	GE	0
1,1-Dichloroethylene		<100	<800	1.9	1	JE	µg/L	GE	0
trans-1,2-Dichloroethylene		<100	<800	<2.0	1		µg/L	GE	0
PCB 1016									
PCB 1221									
PCB 1232									
PCB 1242									
PCB 1248									
PCB 1254									
PCB 1260									
1,1,2,2-Tetrachloroethane		<100	<800	<2.0	1		µg/L	GE	0
■ Tetrachloroethylene		<100	<800	58	1		µg/L	GE	2
1,1,1-Trichloroethane		310	<800	<2.0	1		µg/L	GE	0
● ■ Trichloroethylene		5,000	6,200	7,400	100	J1	µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag
---	----	-----------	----	-----	-----	-----	----	-----	------	-----	------

Inorganics

Aluminum, total recoverable
Chloride
Chromium, total recoverable
Cobalt, total recoverable
Copper, total recoverable
Fluoride
Manganese, total recoverable
Mercury, total recoverable
Nitrate as nitrogen
Nitrate-nitrite as nitrogen
Sodium, total recoverable
Sulfate
Total phosphates (as P)
Uranium, total recoverable
Zinc, total recoverable

Radionuclides

Gross alpha
Nonvolatile beta
Radium, total alpha-emitting

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

WELL RWM 15B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107444.7 E53849.0	33.351250 °N 81.733769 °W	150.9-125.8 ft msl	369.5 ft msl	6" CS	O	

SAMPLE DATE	10/11/96	11/15/96	12/11/96

FIELD DATA

Parameter	M9	M10	M11	M12	Unit
Water elevation					ft msl
pH	3.6	4.8	4.8	4.8	pH
Sp. conductance	34	22	26	26	µS/cm
Water temperature	18.0	21.0	24.0	24.0	°C
Alkalinity as CaCO ₃	0	1	1	1	mg/L
Turbidity	5	5	7	7	NTU
Volume purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Barium, total recoverable										
		Cyanide										
		Lead, total recoverable										
		Nickel, total recoverable										
		Selenium, total recoverable										
		Organics										
		Chlorobenzene		<4.0	<20	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethane		<4.0	<20	<2.0	1		µg/L	GE	0	
		1,1-Dichloroethylene		<4.0	<20	<2.0	1		µg/L	GE	0	
		trans-1,2-Dichloroethylene		<4.0	<20	<2.0	1		µg/L	GE	0	
		PCB 1016										
		PCB 1221										
		PCB 1232										
		PCB 1242										
		PCB 1248										
		PCB 1254										
		PCB 1260										
		1,1,2,2-Tetrachloroethane		<4.0	<20	<2.0	1		µg/L	GE	0	
		Tetrachloroethylene		<4.0	<20	<2.0	1		µg/L	GE	0	
		1,1,1-Trichloroethane		<4.0	<20	<2.0	1		µg/L	GE	0	
		Trichloroethylene		54	58	66	1		µg/L	GE	2	

Monitoring Constituents

H	ST	Parameter	M9	M10	M11	M12	DF	Mod	Unit	Lab	Flag	
		Inorganics										
		Aluminum, total recoverable										
		Chloride										
		Chromium, total recoverable										
		Cobalt, total recoverable										
		Copper, total recoverable										
		Fluoride										
		Manganese, total recoverable										
		Mercury, total recoverable										
		Nitrate as nitrogen										
		Nitrate-nitrite as nitrogen										
		Sodium, total recoverable										
		Sulfate										
		Total phosphates (as P)										
		Uranium, total recoverable										
		Zinc, total recoverable										
		Radionuclides										
		Gross alpha										
		Nonvolatile beta										
		Radium, total alpha-emitting										

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Radionuclide results in italics are less than sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for first quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for first quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for first quarter 1996.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF

WELL AMB 4A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104131.6 E51469.8	33.340041 °N 81.733589 °W	126.3-121.3 ft msl	380.5 ft msl	4" PVC	S	MCBC
SAMPLE DATE		01/25/95	09/19/95	01/04/96	08/14/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		219.9	220.6	220.2	219.0	ft msl
pH		7.0	6.3	6.2	6.4	pH
Sp. conductance		40	45	40	68	µS/cm
Water temperature		18.7	19.4	19.0	22.0	°C
Alkalinity as CaCO ₃		3	15	1	28	mg/L
Turbidity		1	2	1	4	NTU
Volume purged		2.6	2.8	2.6	0.53	well volume
Sampling code					X	
Synchronous water level		220.4 (03/23/95)	221.1 (08/08/95)	220.2 (03/11/96)	220.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	2.3	<5.0	<3.8	4.8	1	JE	µg/L	WA	0
		Barium, total recoverable	5.5	5.1	5.4	6.6	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.7	2.8	1	JE	µg/L	WA	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.9	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	0.054	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<4.0	4.1	1	JE	µg/L	WA	0
		Silver, total recoverable	<3.3	<2.0	<2.0	0.85	1	JE	µg/L	WA	0
Organics											
■		Acetone	<170	<200	<200	96	25	JE	µg/L	GE	0
		Carbon tetrachloride	<1.7	<2.0	<40	1.3	1	JE	µg/L	WA	0
		Chloroethene (Vinyl chloride)	<1.7	<4.0	<40	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<2.0	<40	0.43	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	5.2	6.8		7.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<2.0	<40	0.10	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0028	<0.050	<0.048	<0.049	1	J	µg/L	GE	0
		Lindane	<0.0080	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<400	<200	<10	1		µg/L	GE	0
		Phenol	<17	<10	<10	<10	1	J	µg/L	GE	0
■		Tetrachloroethylene	29	26	23	49	1		µg/L	WA	2
■		1,1,1-Trichloroethane	<1.7	<2.0	<40	<0.050	1		µg/L	GE	0
■		Trichloroethylene	360	400	360	430	2.5		µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	1,900	1,700	1,600	2,100	1	V	µg/L	WA	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	25	1	JE	µg/L	GE	0
		Iron, total recoverable	6.2	<18	19	170	1	J	µg/L	GE	1
		Manganese, total recoverable	7.4		7.4	7.1	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	880	790	850	960	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<6.3	<5.0	1		µg/L	GE	0
■		Sodium, total recoverable			2,600	11,000	1		µg/L	WA	0
■		Sulfate			790	3,300	1		µg/L	WA	0
■		Total organic carbon	<1,700	<550	<810	1,800	1	V	µg/L	GE	0
		Total organic halogens	140	93	140	320	1		µg/L	WA	2
		Total phosphates (as P)	<83	30	150	29	1	JE	µg/L	WA	

Radionuclides

Gross alpha	3.4E-01		4.1E-02	1.1E+00	1		pCi/L	GP	0
Nonvolatile beta	6.4E-01		7.7E-01	4.5E+00	1		pCi/L	TM	0
Radium, total alpha-emitting	1.0E-01		4.0E-01	2.6E-01	1	J1	pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 4D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104154.7 E51489.0	33.340124 °N 81.733584 °W	233.4-213.4 ft msl	380.3 ft msl	4" PVC	S	M
SAMPLE DATE		02/02/95	09/21/95	01/04/96	08/14/96	
FIELD DATA						
Parameter	1Q95	3Q95	1Q96	3Q96	Unit	
Water elevation	234.1	235.0	234.3	234.1	ft msl	
pH	4.8	5.0	6.0	5.6	pH	
Sp. conductance	49	38	42	58	µS/cm	
Water temperature	17.4	20.0	19.0	23.0	°C	
Alkalinity as CaCO ₃	3	1	3	5	mg/L	
Turbidity	19	3	2	1	NTU	
Volume purged	1.2	8.1	4.3	2.9	well volume	
Sampling code	X					
Synchronous water level	234.4 (03/23/95)	234.5 (08/08/95)	234.8 (03/11/96)	233.9 (09/19/96)	ft msl	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<2.6	<3.8	1	V	µg/L	GE	0
		Barium, total recoverable	10	6.7	4.3	3.5	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.5	<4.0	1		µg/L	GE	0
		Lead, total recoverable	7.8	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	0.035	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.7	<2.2	1	V	µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<25	<10	7.4	2	JE	µg/L	GE	0
		Carbon tetrachloride	1.6	0.60	<2.0	0.50	2		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.50	<2.0	<0.20	2		µg/L	GE	0
		Chloroform	<1.7	<0.25	<2.0	0.20	2		µg/L	GE	0
		1,1-Dichloroethane	1.2	0.50	<2.0	0.56	2		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<2.0		1.0	2	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.050	<0.048	<0.050	1	J	µg/L	GE	0
		Lindane	<0.0082	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<50	<10	<20	2		µg/L	GE	0
		Phenol	<17	<1.0	<9.4	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	9.0	2.2	<2.0	1.9	2		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.25	<2.0	<0.10	2		µg/L	GE	0
		Trichloroethylene	130	42	2.6	38	2		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	3,500	2,600	2,600	1,700	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	620	120	30	33	1	J	µg/L	GE	0
		Manganese, total recoverable	18	14	9.4	9.5	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	2,000	1,300	910	1,400	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	1.9	<1.7	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			6,200	7,400	1	V	µg/L	GE	0
		Sulfate		2,900	4,600	11,000	1		µg/L	GE	0
		Total organic carbon	<1,700	<880	<1,500	2,400	1	V	µg/L	GE	0
		Total organic halogens	71	20	28	23	1	V	µg/L	GE	0
		Total phosphates (as P)	<83	<30	30	<50	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+01		3.3E+00	1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.9E+00		1.2E+00	7.0E+01	1		pCi/L	GP	2
		Radium, total alpha-emitting	8.6E+00		1.1E+00	-8.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 5

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104083.4 E51467.2	33.339930 °N 81.733502 °W	242.1-222.1 ft msl	379.6 ft msl	4" PVC	S	M
SAMPLE DATE		02/01/95	09/20/95	01/04/96	07/03/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		234.6	235.3	234.8	235.0	ft msl
pH		5.3	5.1	5.8	5.4	pH
Sp. conductance		42	50	50	46	µS/cm
Water temperature		19.0	19.6	20.0	27.0	°C
Alkalinity as CaCO ₃		5	8	3	10	mg/L
Turbidity		5	15	14	11	NTU
Volume purged		11	6.5	2.0	2.8	well volume
Sampling code						
Synchronous water level		234.8 (03/23/95)	234.9 (08/08/95)	235.2 (03/11/96)	234.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<4.4	<5.0	1		µg/L	GE	0
		Barium, total recoverable	3.5	3.6	3.1	3.1	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<2.3	0.76	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	1.9	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.033	<0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.8	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<10	<20	<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.20	<4.0	<2.0	1		µg/L	GE	0
		Chloroform	<1.7	0.12	<4.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.52	<4.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<10	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.050	<0.048	1		µg/L	GE	0
		Lindane	<0.0083	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<20	<20	<10	1		µg/L	GE	0
		Phenol	<17	<1.0	<9.4	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	2.2	1.3	<4.0	1.1	1	JE	µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.10	<4.0	<2.0	1		µg/L	GE	0
■		Trichloroethylene	37	27	15	16	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	3,300	3,400	3,200	2,700	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<1.9	1	V	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
■		Iron, total recoverable	64	290	380	430	1		µg/L	GE	2
		Manganese, total recoverable	5.1		4.6	6.8	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	730	640	470	650	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<4.2	<5.0	1		µg/L	GE	0
■		Sodium, total recoverable			9,500	9,200	1	V	µg/L	GE	0
■		Sulfate			6,700	6,600	1		µg/L	GE	0
		Total organic carbon	1,100	1,600	2,300	1,000	1		µg/L	GE	0
		Total organic halogens	15	21	13	9.6	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	250	<50	1		µg/L	GE	0

Radionuclides

	Gross alpha	4.1E+00		2.6E+00	1.2E+00	1		pCi/L	GP	0
	Nonvolatile beta	2.6E+00		1.5E+00	1.4E+00	1		pCi/L	GP	0
	Radium, total alpha-emitting	2.9E+00		2.3E+00	1.2E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 6

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104034.1 E51466.0	33.339819 °N 81.733410 °W	242.6-222.6 ft msl	377.2 ft msl	4" PVC	S	M

SAMPLE DATE 02/02/95 09/21/95 01/04/96 07/03/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.7	235.4	234.9	235.2	ft msl
pH	5.5	5.7	5.4	5.0	pH
Sp. conductance	48	57	30	28	µS/cm
Water temperature	17.9	20.5	19.0	26.0	°C
Alkalinity as CaCO ₃	10	8	1	1	mg/L
Turbidity	63	6	3	4	NTU
Volume purged	0.38	0.48	4.1	3.9	well volume
Sampling code	X	X			
Synchronous water level	234.9 (03/23/95)	235.0 (08/08/95)	235.3 (03/11/96)	234.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	3.6	<4.4	<5.0	1		µg/L	GE	0
		Barium, total recoverable	6.3	8.2	4.1	4.0	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	8.4	<1.4	1.5	1	JE	µg/L	GE	0
		Lead, total recoverable	38	39	1.9	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.25	<0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	2.6	<3.9	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<5.0	<10	<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	0.10	<2.0	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<2.0	1		µg/L	GE	0
		Chloroform	<1.7	0.040	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.17	<2.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<2.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.052	<0.048	<0.048	1		µg/L	GE	0
		Lindane	<0.0083	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<1.0	<9.4	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	0.36	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	0.050	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	11	6.5	<2.0	2.3	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,800	2,800	2,300	2,000	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<1.6	1	V	µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	2,000	6,400	97	100	1		µg/L	GE	0
		Manganese, total recoverable	7.8		5.4	5.9	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	370	290	600	1,100	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	3.5	<4.4	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			3,600	4,100	1	V	µg/L	GE	0
		Sulfate			1,100	1,300	1		µg/L	GE	0
		Total organic carbon	<1,700	1,300	<1,500	1,200	1		µg/L	GE	0
		Total organic halogens	36	12	<10	<10	1		µg/L	GE	0
		Total phosphates (as P)	150	<60	<50	<50	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.1E+00		2.1E+00	1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.2E+00		1.2E+00	7.4E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00		8.0E-01	1.3E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 8D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103874.7 E51400.5	33.339360 °N 81.733272 °W	240.8-220.8 ft msl	369.6 ft msl	4" PVC	S	M
SAMPLE DATE		02/01/95	08/30/95	01/05/96	07/09/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		234.7	235.3	234.8	234.9	ft msl
pH		5.5	5.5	5.2	6.0	pH
Sp. conductance		49	59	58	70	µS/cm
Water temperature		18.5	19.1	23.0	25.0	°C
Alkalinity as CaCO ₃		15	10	10	8	mg/L
Turbidity		1	0	0	0	NTU
Volume purged		5.8	7.9	3.5	10	well volume
Sampling code						
Synchronous water level		234.9 (03/23/95)	235.0 (08/08/95)	235.2 (03/11/96)	234.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	<5.0	2.4	1.8	2.1	1	JEV	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.5	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.9	2.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	0.046	0.34	1	V	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.9	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<5.0	<10	<6.7	1	V	µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	0.050	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<1.7	<2.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0024	<0.052	<0.049	<0.049	1		µg/L	GE	0
		Lindane	<0.0082	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<1.0	<9.3	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.16	<2.0	0.16	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,900	2,700	2,900	2,500	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	32	<18	57	27	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		0.94	1.5	1	JEV	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	500	520	100	540	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	1.6	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			12,000	11,000	1	V	µg/L	GE	0
		Sulfate			4,500	3,900	1		µg/L	GE	0
		Total organic carbon	1,700	400	2,100	<1,100	1	V	µg/L	GE	0
		Total organic halogens	13	25	23	5.1	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	80	40	1	JE	µg/L	GE	0

Radionuclides

		Gross alpha	1.7E+00		7.8E-01	1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.0E+00		1.3E+00	3.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01		2.0E-01	1.0E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 9D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103585.2 E51263.0	33.338496 °N 81.733071 °W	239.7-219.7 ft msl	367.9 ft msl	4" PVC	S	M
SAMPLE DATE	02/01/95	08/30/95	01/05/96	07/09/96		
FIELD DATA						
Parameter	1Q95	3Q95	1Q96	3Q96	Unit	
Water elevation	235.1	235.8	235.2	235.3	ft msl	
pH	5.5	5.5	5.6	5.8	pH	
Sp. conductance	37	50	44	62	µS/cm	
Water temperature	17.5	18.4	18.0	26.0	°C	
Alkalinity as CaCO ₃	5	8	10	5	mg/L	
Turbidity	1	1	1	0	NTU	
Volume purged	6.5	10	4.4	13	well volume	
Sampling code						
Synchronous water level	235.3 (03/23/95)	235.4 (08/08/95)	235.5 (03/11/96)	234.5 (09/19/96)	ft msl	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<3.9	<5.0	1		µg/L	GE	0
		Barium, total recoverable	<5.0	2.4	2.8	2.4	1	JEV	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.9	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<1.8	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.015	<0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.9	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<5.0	<10	<5.8	1	V	µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<1.7	<5.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.052	<0.048	<0.049	1		µg/L	GE	0
		Lindane	<0.0080	<0.025	<0.025	<0.026	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<16	<1.0	<9.4	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	3,100	2,700	3,000	2,500	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	29	11	88	<18	1		µg/L	GE	0
		Manganese, total recoverable	2.1		2.5	1.7	1	JEV	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	150	140	120	410	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	2.0	<3.6	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			8,100	8,600	1	V	µg/L	GE	0
		Sulfate			3,900	4,800	1		µg/L	GE	0
		Total organic carbon	1,400	1,300	<1,300	<1,100	1	V	µg/L	GE	0
		Total organic halogens	13	<6.9	25	5.8	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	110	<50	1		µg/L	GE	0
Radionuclides											
		Gross alpha	6.8E-01		9.4E-01	1.0E+00	1		pCi/L	GP	0
		Nonvolatile beta	7.3E-01		2.0E-02	3.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.2E+00		2.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 10A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103326.4 E51410.0	33.338163 °N 81.732180 °W	111.4-106.4 ft msl	366.5 ft msl	4" PVC	S	MCBC
SAMPLE DATE	01/27/95	08/31/95	02/23/96	07/09/96		
FIELD DATA						
Parameter	1Q95	3Q95	1Q96	3Q96	Unit	
Water elevation	219.0	220.6	219.3	218.1	ft msl	
pH	11.5	11.5	11.0	10.8	pH	
Sp. conductance	177	1026	500	140	µS/cm	
Water temperature	14.7	18.4	21.0	30.0	°C	
Alkalinity as CaCO ₃	84	213	125	143	mg/L	
Turbidity	14	5	17	4	NTU	
Volume purged	1.1	0.88	0.014	0.91	well volume	
Sampling code	X	X	X	X		
Synchronous water level	219.5 (03/23/95)	219.9 (08/08/95)	219.1 (03/11/96)	218.7 (09/19/96)	ft msl	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<7.8	<5.0	1		µg/L	GE	0
		Barium, total recoverable	24	70	22	58	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	6.0	<3.9	3.3	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	9.9	<5.0	3.2	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.024	<0.050	0.16	1	JEV	µg/L	GE	0
		Nickel, total recoverable	<6.7	2.0	1.1	1.2	1	JE	µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0

Organics

		Acetone	<170	14	<10	<9.3	1	V	µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.050	<0.050	<0.050	1		µg/L	GE	0
		Lindane	<0.0083	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<10	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	0.080	<2.0	0.070	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	1,600	1,700	1,900	1,600	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	46	68	230	97	1	JE	µg/L	GE	0
		Iron, total recoverable	58	94	140	57	1		µg/L	GE	0
		Manganese, total recoverable	3.3		15	3.5	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	150	230	230	400	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
■		Sodium, total recoverable			10,000	14,000	1	V	µg/L	GE	0
■		Sulfate			6,500	5,200	1		µg/L	GE	0
		Total organic carbon	<1,700	1,600	1,100	2,300	1	V	µg/L	GE	0
		Total organic halogens	6.4	4.5	79	<10	1		µg/L	GE	0
		Total phosphates (as P)	<83	30	<50	<50	1		µg/L	GE	0

Radionuclides

		Gross alpha	8.9E-01		3.6E-01	1.1E+00	1		pCi/L	GP	0
		Nonvolatile beta	4.4E+00		7.1E+00	9.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	0.0E+00		1.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

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WELL AMB 10B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103337.3 E51418.3	33.338201 °N 81.732180 °W	154.3-149.3 ft msl	366.4 ft msl	4" PVC	S	LL

SAMPLE DATE	02/01/95	08/29/95	02/16/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.6	226.0	224.4	223.4	ft msl
pH	6.2	5.7	5.2	5.8	pH
Sp. conductance	45	50	56	54	µS/cm
Water temperature	18.4	19.0	20.0	25.0	°C
Alkalinity as CaCO ₃	14	20	10	11	mg/L
Turbidity	2	1	1	0	NTU
Volume purged	2.8	2.8	6.5	4.5	well volume
Sampling code					
Synchronous water level	224.6 (03/23/95)	225.6 (08/08/95)	224.2 (03/11/96)	223.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	2.2	<5.0	1		µg/L	GE	0
		Barium, total recoverable	13	15	8.8	7.3	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	0.65	0.82	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	1.1	0.18	1	JEV	µg/L	GE	0
		Nickel, total recoverable	<6.7	1.1	<10	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	0.69	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	3.2	<10	<6.7	1	V	µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<2.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.049	<0.049	<0.050	1		µg/L	GE	0
		Lindane	<0.0083	<0.025	<0.024	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<11	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	3,400	3,300	3,500	3,100	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<18	<100	1		µg/L	GE	0
		Iron, total recoverable	<6.7	<18	7.5	<18	1		µg/L	GE	0
		Manganese, total recoverable	14		10	7.2	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	98	100	120	410	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.6	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			4,000	3,800	1	V	µg/L	GE	0
		Sulfate			790	630	1	JE	µg/L	GE	0
		Total organic carbon	1,100	<880	640	<860	1	V	µg/L	GE	0
		Total organic halogens	17	<9.3	13	8.7	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	9.9	<50	1		µg/L	GE	0
Radionuclides											
		Gross alpha	5.7E-01		1.8E+00	2.7E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.1E-01		3.4E+00	3.9E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01		1.0E-01	6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 10D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103293.4 E51456.0	33.338166 °N 81.731995 °W	239.4-219.4 ft msl	365.5 ft msl	4" PVC	S	M

SAMPLE DATE	02/02/95	08/30/95	02/14/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	236.4	236.9	237.3	236.6	ft msl
pH	5.4	5.5	4.6	6.0	pH
Sp. conductance	41	49	60	64	µS/cm
Water temperature	17.8	18.5	20.0	24.0	°C
Alkalinity as CaCO ₃	10	15	10	10	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	7.5	7.3	3.2	12	well volume
Sampling code					
Synchronous water level	236.6 (03/23/95)	236.6 (08/08/95)	237.0 (03/11/96)	235.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	3.4	<5.0	1		µg/L	GE	0
		Barium, total recoverable	5.3	8.3	7.3	7.7	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<2.5	<1.2	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.032	<0.13	1	V	µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<5.0	<10	<5.1	1	V	µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<1.7	<2.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.049	<0.050	<0.049	1		µg/L	GE	0
		Lindane	<0.0082	<0.025	<0.024	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<1.0	<10	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	3,600	3,300	3,400	3,000	1		µg/L	GE	0
		Cyanide	<8.3	2.8	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	29	15	23	<18	1		µg/L	GE	0
		Manganese, total recoverable	3.9		3.1	2.8	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	110	80	<10	130	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
■		Sodium, total recoverable			6,000	7,500	1	V	µg/L	GE	0
■		Sulfate			2,500	3,600	1		µg/L	GE	0
		Total organic carbon	<1,700	1,100	<1,000	<1,100	1	V	µg/L	GE	0
		Total organic halogens	14	31	24	8.6	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	110	1		µg/L	GE	0
Radionuclides											
		Gross alpha	1.3E+00		8.0E-01	1.5E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	1.6E+00		1.4E+00	2.1E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E+00		1.2E+00	5.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 16D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104268.8 E51557.5	33.340488 °N 81.733625 °W	233.4-213.4 ft msl	380.4 ft msl	2" PVC	V	M
SAMPLE DATE	03/16/95	09/18/95	01/08/96	08/15/96		
FIELD DATA						
Parameter	1Q95	3Q95	1Q96	3Q96	Unit	
Water elevation	234.4	235.0	234.6	234.1	ft msl	
pH	5.7	5.1	5.6	4.6	pH	
Sp. conductance	35	47	34	34	µS/cm	
Water temperature	22.5	20.8	23.0	21.0	°C	
Alkalinity as CaCO ₃	8	12	3	30	mg/L	
Turbidity	5	11	4	4	NTU	
Volume purged	2.3	3.4	5.8	3.0	well volume	
Sampling code	P					
Synchronous water level	234.4 (03/23/95)	234.6 (08/07/95)	234.5 (03/11/96)	233.9 (09/19/96)	ft msl	

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<5.0	<5.0	<2.2	2.8	1	JE	µg/L	GE	0
		Barium, total recoverable	1.2	1.2	1.2	1.9	1	JE	µg/L	GE	0
		Chromium, total recoverable	<4.0	2.4	1.3	1.5	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	1.8	2.1	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	0.046	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	2.7	2.6	<10	3.9	1	JE	µg/L	GE	0
		Silver, total recoverable	<0.65	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	12	<10	<5.0	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	0.10	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	0.070	<2.0	0.070	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	0.22	<2.0	0.15	1	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.051	<0.051	<0.051	<0.050	1	J	µg/L	GE	0
		Lindane	<0.027	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<10	<10	1	J1	µg/L	GE	0
		Tetrachloroethylene	<1.7	0.26	<2.0	0.22	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	8.5	6.6	2.2	4.2	1		µg/L	GE	1

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,700	2,900	2,400	2,700	1		µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<100	<100	<100	<100	1	J	µg/L	GE	0
		Iron, total recoverable	71	290	62	73	1		µg/L	GE	0
		Manganese, total recoverable	2.9	2.0	2.1	2.8	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	510	480	680	890	1		µg/L	GE	0
		Selenium, total recoverable	<5.0	2.1	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable	6,800	7,300	5,900	4,700	1		µg/L	GE	0
		Sulfate	3,300	5,400	3,600	2,300	1	V	µg/L	GE	0
		Total organic carbon	1,100	3,600	<420	2,100	1	V	µg/L	GE	0
		Total organic halogens	<10	27	12	<11	1	V	µg/L	GE	0
		Total phosphates (as P)	<100	<100	<50	<40	1	V	µg/L	GE	0
Radionuclides											
		Gross alpha	5.1E-01	5.4E-01	1.6E+00	1.2E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.4E+00	3.1E-01	1.8E+00	9.3E-01	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01		0.0E+00	6.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 17A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104056.7 E51465.4	33.339868 °N 81.733455 °W	125.0-120.0 ft msl	379.1 ft msl	4" PVC	S	MCBC

SAMPLE DATE	03/16/95	09/19/95	01/08/96	08/14/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.7	220.4	220.2	219.1	ft msl
pH	5.2	5.2	5.4	5.6	pH
Sp. conductance	20	23	22	42	µS/cm
Water temperature	19.0	19.4	25.0	22.0	°C
Alkalinity as CaCO ₃	1	7	2	1	mg/L
Turbidity	209	7	4	2	NTU
Volume purged	5.4	3.3	4.1	2.8	well volume
Sampling code	P				
Synchronous water level	220.4 (03/23/95)	221.0 (08/08/95)	220.2 (03/11/96)	220.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<5.0	<5.0	<5.0	<2.8	1	V	µg/L	GE	0
		Barium, total recoverable	6.8	2.5	2.3	2.5	1		µg/L	WA	0
		Chromium, total recoverable	<4.0	0.83	<4.0	2.2	1	JE	µg/L	WA	0
		Lead, total recoverable	1.2	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.20	<0.20	0.062	1	JE	µg/L	GE	0
		Nickel, total recoverable	<10	1.4	<10	3.4	1	JE	µg/L	WA	0
		Silver, total recoverable	<0.65	<2.0	<2.0	2.4	1	JE	µg/L	WA	0

Organics

■		Acetone	<170	6.7	<10	140	25		µg/L	GE	0
		Carbon tetrachloride	1.1	1.3	1.1	1.5	1	JE	µg/L	WA	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<1.0	10		µg/L	GE	0
		Chloroform	<1.7	0.41	<2.0	<0.50	10		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		cis-1,2-Dichloroethylene	7.2	8.6	6.3	8.1	1		µg/L	WA	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.053	<0.051	<0.050	<0.050	1	J	µg/L	GE	0
		Lindane	<0.025	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<100	10		µg/L	GE	0
		Phenol	<17	<10	<10	<10	1	J	µg/L	GE	0
■		Tetrachloroethylene	34	54	56	56	1		µg/L	WA	2
●	■	1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.50	10		µg/L	GE	0
●	■	Trichloroethylene	400	580	520	570	5	J	µg/L	WA	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	1,700	1,900	1,800	2,400	1	V	µg/L	WA	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<100	<100	<100	<14	1	V	µg/L	WA	0
		Iron, total recoverable	200	68	76	79	1	V	µg/L	WA	0
		Manganese, total recoverable	44	23	15	13	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	940	930	990	1,300	1	V	µg/L	GE	0
		Selenium, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable	3,000	2,000	2,000	1,900	1	V	µg/L	GE	0
		Sulfate	800	270	310	480	1		µg/L	WA	0
		Total organic carbon	<210	<750	<1,000	<920	1	V	µg/L	GE	0
■		Total organic halogens	64	170	190	400	1		µg/L	WA	2
		Total phosphates (as P)	120	<100	<50	9.2	1	JE	µg/L	WA	0

Radionuclides

■		Gross alpha	5.4E-01	2.0E-01	1.1E+00	-7.0E-02	1	UI	pCi/L	TM	0
		Nonvolatile beta	6.0E-01	3.3E-01	1.3E+00	1.4E-01	1	UI	pCi/L	GP	0
■		Radium, total alpha-emitting	6.0E-01		-2.0E-01	8.3E+00	1		pCi/L	TM	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 18A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103988.8 E51418.8	33.339642 °N 81.733446 °W	136.4-131.4 ft msl	377.3 ft msl	4" PVC	S	MCBC

SAMPLE DATE 03/15/95 09/18/95 01/08/96 08/15/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.0	220.7	220.1	219.5	ft msl
pH	5.5	5.3	5.4	6.6	pH
Sp. conductance	23	27	22	26	µS/cm
Water temperature	19.1	20.4	20.0	22.0	°C
Alkalinity as CaCO ₃	4	4	0	1	mg/L
Turbidity	30	3	1	2	NTU
Volume purged	4.1	2.5	4.7	2.7	well volume
Sampling code	P				
Synchronous water level	220.2 (03/23/95)	221.1 (08/08/95)	220.0 (03/11/96)	219.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Arsenic, total recoverable	<5.0	<5.0	<3.9	4.0	1	JE	µg/L	GE
		Barium, total recoverable	8.7	5.0	4.6	5.2	1		µg/L	GE
		Chromium, total recoverable	<4.0	<4.0	<4.0	<4.0	1		µg/L	GE
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE
		Mercury, total recoverable	<0.20	<0.20	0.032	<0.20	1		µg/L	GE
		Nickel, total recoverable	<2.0	<10	<10	2.8	1	JE	µg/L	GE
		Silver, total recoverable	<0.65	<2.0	<2.0	<2.0	1		µg/L	GE
Organics										
■		Acetone	<170	11	<10	12	2		µg/L	GE
		Carbon tetrachloride	<1.7	0.090	<2.0	<0.10	2		µg/L	GE
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.20	2		µg/L	GE
		Chloroform	<1.7	0.10	<2.0	0.12	2		µg/L	GE
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE
		cis-1,2-Dichloroethylene	4.1	5.1	3.9	3.9	2	JE	µg/L	GE
		trans-1,2-Dichloroethylene	<1.7	0.080	<2.0	0.12	2		µg/L	GE
		2,4-Dichlorophenoxyacetic acid	<0.051	<0.052	<0.050	<0.049	1	J	µg/L	GE
		Lindane	<0.025	<0.025	<0.025	<0.025	1		µg/L	GE
		Methyl methacrylate	<10	<10	<10	<20	2		µg/L	GE
		Phenol	<17	<10		<10	1	J1	µg/L	GE
		Tetrachloroethylene	3.1	2.1	1.8	3.5	2		µg/L	GE
■		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.10	2		µg/L	GE
		Trichloroethylene	50	53	41	47	2		µg/L	GE

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Chloride	2,200	1,900	2,100	2,300	1		µg/L	GE
		Cyanide	<20	<20	<10	<10	1		µg/L	GE
		Fluoride	<100	<100	<100	<100	1	J	µg/L	GE
		Iron, total recoverable	490	42	25	17	1	JE	µg/L	GE
		Manganese, total recoverable	17	7.5	7.1	5.2	1	V	µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	1,000	880	840	1,100	1		µg/L	GE
		Selenium, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE
		Sodium, total recoverable	3,200	2,300	2,300	2,100	1		µg/L	GE
		Sulfate	910	370	390	<340	1	V	µg/L	GE
		Total organic carbon	200	<570	<300	1,600	1	V	µg/L	GE
		Total organic halogens	20	31	36	18	1	V	µg/L	GE
		Total phosphates (as P)	<100	<100	<50	<30	1	V	µg/L	GE
Radionuclides										
		Gross alpha	1.4E+00	2.5E-01	1.5E+00	8.9E-02	1	UI	pCi/L	GP
		Nonvolatile beta	1.4E+00	1.9E-01	1.2E+00	8.8E-02	1	UI	pCi/L	GP
		Radium, total alpha-emitting	0.0E+00		-2.0E-01	-1.0E-01	1	UI	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 18C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103983.4 E51432.8	33.339653 °N 81.733398 °W	214.2-209.2 ft msl	376 ft msl	2" PVC	V	UL

SAMPLE DATE	03/16/95	09/18/95	01/09/96	08/16/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.5	235.2	234.6	234.2	ft msl
pH	6.0	5.3	5.8	5.2	pH
Sp. conductance	33	39	30	30	µS/cm
Water temperature	22.0	20.5	28.0	22.0	°C
Alkalinity as CaCO ₃	9	2	7	8	mg/L
Turbidity	5	11	1	10	NTU
Volume purged	0.96	3.1	2.9	3.2	well volume
Sampling code	P				
Synchronous water level	234.5 (03/23/95)	234.6 (08/08/95)	234.8 (03/11/96)	234.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<5.0	2.5	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	3.5	2.5	1.8	2.0	1	JE	µg/L	GE	0
		Chromium, total recoverable	3.4	2.8	<1.1	3.4	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	59	3.9	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.20	<0.017	<0.20	0.046	1	JE	µg/L	GE	0
		Nickel, total recoverable	6.9	2.5	<2.3	2.7	1	JE	µg/L	GE	0
		Silver, total recoverable	<0.65	<2.0	<2.0	<2.0	1		µg/L	GE	0

Organics

●		Acetone	<170	7.9	<10	7.1	1	J1	µg/L	GE	0
●		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1	J1	µg/L	GE	0
●		Chloroform	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		cis-1,2-Dichloroethylene	<1.7	<5.0	<2.0	<5.0	1	J1	µg/L	GE	0
●		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		2,4-Dichlorophenoxyacetic acid	<0.053	<0.052	<0.052	<10	1	J1	µg/L	GE	0
●		Lindane	<0.027	<0.025	<0.025	<0.025	1	J1	µg/L	GE	0
●		Methyl methacrylate	<10	<10	<10	<10	1	J1	µg/L	GE	0
●		Phenol	<17	<10	<1.0	<10	1	J	µg/L	GE	0
●		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0
●		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1	J1	µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,700	2,500	2,800	2,800	1		µg/L	GE	0
		Cyanide	<20	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<100	<100	<100	<100	1	J3	µg/L	GE	0
		Iron, total recoverable	35	320	42	230	1		µg/L	GE	1
		Manganese, total recoverable	12	9.6	7.6	8.7	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	410	460	240	740	1	V	µg/L	GE	0
		Selenium, total recoverable	<5.0	2.8	<5.0	<5.0	1		µg/L	GE	0
■		Sodium, total recoverable	5,200	5,600	4,800	4,700	1	J	µg/L	GE	0
		Sulfate	1,800	2,400	1,600	<1,100	1	V	µg/L	GE	0
		Total organic carbon	<840	1,200	<670	<2,000	1	V	µg/L	GE	0
		Total organic halogens	<10	30	16	13	1		µg/L	GE	0
		Total phosphates (as P)	<100	<100	<50	<50	1		µg/L	GE	0

Radionuclides

	Gross alpha	4.8E-01	6.4E-01	2.4E-01	7.9E-02	1	UI	pCi/L	GP	0
	Nonvolatile beta	5.8E-01	4.1E-01	6.8E-01	8.9E-01	1	UI	pCi/L	GP	0
	Radium, total alpha-emitting	4.0E-01		1.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 19C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N102941.1 E51503.7	33.337465 °N 81.731184 °W	196.7-191.7 ft msl	363.7 ft msl	2" PVC	V	UL

SAMPLE DATE 03/16/95 09/19/95 01/15/96 07/10/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.2	232.5	232.0	231.8	ft msl
pH	5.7	5.4	5.2	6.0	pH
Sp. conductance	49	58	76	74	µS/cm
Water temperature	20.4	18.9	30.0	27.0	°C
Alkalinity as CaCO ₃	2	10	10	6	mg/L
Turbidity	10	109	2	1	NTU
Volume purged	1.8	2.5	2.4	3.3	well volume
Sampling code	P				
Synchronous water level	232.5 (03/23/95)	232.7 (08/08/95)	232.4 (03/11/96)	231.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Arsenic, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE
		Barium, total recoverable	0.99	4.7	0.99	0.79	1	JEV	µg/L	GE
		Chromium, total recoverable	2.5	6.3	2.2	1.0	1	JE	µg/L	GE
		Lead, total recoverable	<5.0	10	12	<5.0	1		µg/L	GE
		Mercury, total recoverable	<0.20	0.26	0.040	<0.20	1		µg/L	GE
		Nickel, total recoverable	2.5	5.5	<10	1.1	1	JE	µg/L	GE
		Silver, total recoverable	<0.65	<2.0	<2.0	<2.0	1		µg/L	GE
Organics										
		Acetone	<170	<5.0	5.0	<10	1		µg/L	GE
		Carbon tetrachloride	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<2.0	1		µg/L	GE
		Chloroform	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		cis-1,2-Dichloroethylene	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		2,4-Dichlorophenoxyacetic acid	<0.051	<0.049	<0.048	<0.050	1		µg/L	GE
		Lindane	<0.026	<0.025	<0.025	<0.025	1		µg/L	GE
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE
		Phenol	<19	<10	<9.8	<10	1	J	µg/L	GE
		Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE
		Trichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Chloride	2,200	2,500	2,300	2,000	1	V	µg/L	GE
		Cyanide	<20	<10	<10	<10	1		µg/L	GE
		Fluoride	<100	<100	<100	23	1	JE	µg/L	GE
		Iron, total recoverable	72	580	62	<18	1		µg/L	GE
		Manganese, total recoverable	1.3	2.6	0.70	<0.63	1	V	µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	90	120	90	420	1	V	µg/L	GE
		Selenium, total recoverable	<1.7	2.4	<3.6	<5.0	1		µg/L	GE
	■	Sodium, total recoverable	11,000	10,000	12,000	11,000	1	V	µg/L	GE
	■	Sulfate	9,400	9,300	9,000	8,800	1		µg/L	GE
		Total organic carbon	<470	<850	<770	<800	1	V	µg/L	GE
		Total organic halogens	<10	22	<10	5.8	1	JE	µg/L	GE
		Total phosphates (as P)	<100	70	<90	<50	1	J	µg/L	GE

Radionuclides

Gross alpha	-3.2E-01	5.0E-01	4.3E-01	4.9E-01	1	UI	pCi/L	GP
Nonvolatile beta	3.7E-01	1.9E+00	3.5E-01	2.6E-01	1	UI	pCi/L	GP
Radium, total alpha-emitting	-4.0E-01		0.0E+00	-1.0E-01	1	UI	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF

WELL AMB 11D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103132.3 E51932.6	33.338588 °N 81.730426 °W	240.5-220.5 ft msl	364 ft msl	4" PVC	S	M
SAMPLE DATE		02/03/95	08/30/95	02/14/96	07/10/96	
FIELD DATA						
Parameter		1Q95	3Q95	1Q96	3Q96	Unit
Water elevation		236.8	237.7	238.1	237.6	ft msl
pH		6.0	5.9	5.2	6.6	pH
Sp. conductance		51	56	82	80	µS/cm
Water temperature		17.5	18.7	17.0	25.0	°C
Alkalinity as CaCO ₃		2	9	25	11	mg/L
Turbidity		1	1	2	1	NTU
Volume purged		8.8	13	1.7	8.2	well volume
Sampling code						
Synchronous water level		237.2 (03/23/95)	237.4 (08/08/95)	238.0 (03/11/96)	236.7 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	7.6	8.2	22	10	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<0.82	1.0	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	3.9	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.28	0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	0.82	<10	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0

Organics

		Acetone	<170	8.0	<10	<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<2.0	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.049	<0.050	1		µg/L	GE	0
		Lindane	<0.0083	<0.026	<0.024	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<9.7	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,500	2,900	2,700	2,500	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	<6.7	<18	<18	<18	1		µg/L	GE	0
		Manganese, total recoverable	<3.3	1.5	1.1	1.8	1	JEV	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	93	60	80	350	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.0	<5.0	1.9	1	JE	µg/L	GE	0
		Sodium, total recoverable			6,800	6,400	1	V	µg/L	GE	0
		Sulfate			4,800	4,700	1		µg/L	GE	0
		Total organic carbon	<1,700	670	450	<1,100	1	V	µg/L	GE	0
		Total organic halogens	<8.3	<10	<7.9	4.1	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0

Radionuclides

		Gross alpha	4.8E-01		6.8E-01	9.3E-02	1	UI	pCi/L	GP	0
		Nonvolatile beta	3.0E-01		1.4E+00	5.0E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01		4.0E-01	0.0E+00	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 12D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103602.4 E51901.6	33.339576 °N 81.731422 °W	239.4-219.4 ft msl	369.8 ft msl	4" PVC	S	M

SAMPLE DATE 02/03/95 08/30/95 02/21/96 07/10/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.5	236.4	236.3	236.0	ft msl
pH	5.6	6.0	6.0	6.0	pH
Sp. conductance	24	32	10	37	µS/cm
Water temperature	18.7	19.0	21.0	25.0	°C
Alkalinity as CaCO ₃	3	5	8	1	mg/L
Turbidity	1	3	0	1	NTU
Volume purged	7.7	5.2	7.4	7.0	well volume
Sampling code					
Synchronous water level	235.8 (03/23/95)	236.0 (08/08/95)	236.4 (03/11/96)	235.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Arsenic, total recoverable	<3.3	3.2	<2.3	<5.0	1		µg/L	GE	0
		Barium, total recoverable	4.6	7.0	5.4	4.8	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	4.4	<4.0	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	11	6.8	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.040	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	4.3	<10	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	2.9	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	8.6	1.8	<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<2.0	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.049	<0.049	1		µg/L	GE	0
		Lindane	<0.0079	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<16	<10	<10	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Chloride	1,500	1,500	1,500	1,200	1	V	µg/L	GE	0
		Cyanide	<8.3	4.8	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<14	<100	1		µg/L	GE	0
		Iron, total recoverable	6.8	24	10	<18	1		µg/L	GE	0
		Manganese, total recoverable	12	11	12	10	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	870	850	1,100	1,300	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	8.1	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			2,200	2,100	1	V	µg/L	GE	0
		Sulfate			640	430	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	640	350	<620	1	V	µg/L	GE	0
		Total organic halogens	23	25	<10	<10	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	40	30	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	1.2E+00		2.0E+00	7.8E-01	1		pCi/L	GP	0
		Nonvolatile beta	1.1E+00		1.6E+00	3.1E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01		1.0E-01	3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107319.3 E51217.5	33.346676 °N 81.740456 °W	151.7-145.1 ft msl	365 ft msl	4" PVC	S	LL

SAMPLE DATE	01/30/95	08/23/95	01/25/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	225.3	226.4	225.7	224.7	ft msl
pH	4.6	4.7	5.2	4.4	pH
Sp. conductance	32	29	26	12	µS/cm
Water temperature	18.3	20.5	24.0	22.0	°C
Alkalinity as CaCO ₃	0	0	4	1	mg/L
Turbidity	0	1	1	1	NTU
Volume purged	2.8	2.6	3.7	3.3	well volume
Sampling code					
Synchronous water level	225.4 (03/22/95)	226.0 (08/07/95)	225.6 (03/11/96)	225.4 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<2.0	<5.0	<2.1	1	V	µg/L	GE	0
		Barium, total recoverable	7.0	6.6	7.3	7.1	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	2.3	<0.78	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.021	<0.14	0.023	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<1.8	<10	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0

Organics

Acetone	<170	<5.0	<7.4	8.9	1		µg/L	GE	0
Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
2,4-Dichlorophenoxyacetic acid	<0.0024	<0.050	<0.050	<0.050	1		µg/L	GE	0
Lindane	<0.0083	<0.025	<0.024	<0.025	1		µg/L	GE	0
Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
Phenol	<16	<10	<9.7	<10	1	J	µg/L	GE	0
Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,100	2,400	2,400	2,300	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	4.4	13	<18	<18	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		1.5	1.4	1	JE	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,300	1,500	1,500	1,800	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<5.5	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			2,300	2,300	1		µg/L	GE	0
		Sulfate			190	130	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	<710	170	<1,000	1	V	µg/L	GE	0
		Total organic halogens	6.4	86	3.2	<10	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0

Radionuclides

Gross alpha	2.0E+00	1.4E+00	1.9E+00	1	pCi/L	GP	0
Nonvolatile beta	1.1E+00	9.3E-01	1.6E+00	1	pCi/L	GP	0
Radium, total alpha-emitting	1.9E+00	5.0E-01	7.0E-01	1	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107315.0 E51206.6	33.346648 °N 81.740476 °W	179.7-174.1 ft msl	365 ft msl	4" PVC	S	UL

SAMPLE DATE 01/30/95 08/23/95 01/25/96 07/11/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	230.5	232.1	231.8	231.4	ft msl
pH	4.9	4.9	5.2	4.4	pH
Sp. conductance	31	29	26	14	µS/cm
Water temperature	18.2	20.7	22.0	23.0	°C
Alkalinity as CaCO ₃	0	1	3	1	mg/L
Turbidity	0	1	0	1	NTU
Volume purged	4.6	2.9	3.3	3.6	well volume
Sampling code					
Synchronous water level	231.2 (03/22/95)	231.9 (08/07/95)	231.9 (03/11/96)	231.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	5.9	5.6	6.1	5.9	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	1.8	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	3.2	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.032	<0.12	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.2	1	JE	µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	16	<5.9	<5.0	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.050	<0.050	<0.049	1		µg/L	GE	0
		Lindane	<0.0084	<0.025	<0.024	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<9.9	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Chloride	1,800	2,300	2,400	2,300	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	31	<18	17	21	1		µg/L	GE	0
		Manganese, total recoverable	<3.3		3.6	2.3	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,400	1,600	1,500	1,900	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<2.9	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			3,500	2,300	1		µg/L	GE	0
		Sulfate			150	130	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	<600	280	<950	1	V	µg/L	GE	0
		Total organic halogens	<8.3	35	270	<10	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0

Radionuclides

Gross alpha	2.4E+00	1.8E+01	2.7E+00	1	pCi/L	GP	0
Nonvolatile beta	1.9E+00	2.1E+00	2.4E+00	1	pCi/L	GP	0
Radium, total alpha-emitting	1.9E+00	1.0E+00	1.4E+00	1	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 29D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107323.3 E51226.9	33.346700 °N 81.740439 °W	227.6-207.0 ft msl	364.9 ft msl	4" PVC	S	M

SAMPLE DATE	01/30/95	08/23/95	01/25/96	07/11/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.9	233.6	232.5	233.3	ft msl
pH	4.6	4.6	5.2	4.8	pH
Sp. conductance	35	29	26	28	µS/cm
Water temperature	18.2	19.7	22.0	28.0	°C
Alkalinity as CaCO ₃	0	0	3	0	mg/L
Turbidity	0	1	1	2	NTU
Volume purged	4.5	4.8	7.6	3.3	well volume
Sampling code					
Synchronous water level	233.1 (03/22/95)	233.4 (08/07/95)	233.7 (03/11/96)	233.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	7.1	8.9	8.6	7.3	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<0.76	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	3.1	<1.3	2.0	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.069	0.022	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<0.82	<10	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0

Organics

Acetone	<170	12	<6.9	<5.0	1		µg/L	GE	0
Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.047	<0.050	1		µg/L	GE	0
Lindane	<0.0085	<0.025	<0.025	<0.025	1		µg/L	GE	0
Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
Phenol	<17	<10	<9.9	<10	1	J	µg/L	GE	0
Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,300	2,900	2,900	3,900	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	71	100	120	170	1		µg/L	GE	1
		Manganese, total recoverable	3.6		5.0	4.8	1		µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,600	1,100	1,100	1,300	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.2	<2.6	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			3,100	2,400	1		µg/L	GE	0
		Sulfate			640	760	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	<400	<1,000	<960	1	V	µg/L	GE	0
		Total organic halogens	<8.3	25	3.4	3.0	1	JE	µg/L	GE	0
		Total phosphates (as P)	<83	<100	140	<50	1	J	µg/L	GE	0

Radionuclides

	Gross alpha	6.7E+00		9.4E+00	1.0E+01	1		pCi/L	GP	1
	Nonvolatile beta	6.7E-01		4.3E+00	3.5E+00	1		pCi/L	GP	0
■	Radium, total alpha-emitting	5.9E+00		7.1E+00	6.6E+00	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107275.3 E49293.7	33.343436 °N 81.745437 °W	140.5-134.9 ft msl	357.7 ft msl	4" PVC	S	LL

SAMPLE DATE	01/30/95	08/28/95	02/08/96	07/17/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	228.9	230.7	230.4	229.8	ft msl
pH	5.1	5.2	5.2	5.2	pH
Sp. conductance	23	24	28	24	µS/cm
Water temperature	18.5	19.4	20.0	25.0	°C
Alkalinity as CaCO ₃	1	1	1	1	mg/L
Turbidity	1	0	1	3	NTU
Volume purged	2.6	3.2	2.1	2.8	well volume
Sampling code					
Synchronous water level	230.0 (03/22/95)	230.6 (08/07/95)	230.1 (03/11/96)	229.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Arsenic, total recoverable	<3.3	2.0	<2.1	<5.0	1		µg/L	GE	0
		Barium, total recoverable	7.8	7.0	29	11	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	1.6	<2.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.3	1.2	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	18	<10	5.3	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0024	<0.052	<0.048	<0.049	1	J	µg/L	GE	0
		Lindane	<0.0084	<0.025	<0.028	<0.025	1	J	µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<16	<10	<10	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	F
Inorganics											
		Chloride	1,000	1,200	1,200	1,200	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	<6.7	<18	47	14	1		µg/L	GE	0
		Manganese, total recoverable	2.4		1.8	2.3	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,100	1,300	1,300	1,600	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<3.4	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			2,100	1,800	1	V	µg/L	GE	0
		Sulfate			170	100	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	<490	210	<400	1	V	µg/L	GE	0
		Total organic halogens	<8.3	55	<5.5	10	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	140	1		µg/L	GE	0
Radionuclides											
		Gross alpha	6.1E-01		4.2E-01	1.5E+00	1		pCi/L	GP	0
		Nonvolatile beta	7.4E-01		2.0E+00	1.4E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	6.0E-01		0.0E+00	4.0E-01	1	UIV	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107274.6 E49311.8	33.343464 °N 81.745388 °W	175.5-169.9 ft msl	357.8 ft msl	4" PVC	S	UL

SAMPLE DATE	01/30/95	08/28/95	02/09/96	07/15/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	229.9	230.9	230.8	230.3	ft msl
pH	4.9	5.0	4.8	4.8	pH
Sp. conductance	26	26	28	24	µS/cm
Water temperature	18.8	19.4	20.0	26.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	0	0	1	3	NTU
Volume purged	3.2	5.7	3.3	2.6	well volume
Sampling code					
Synchronous water level	230.2 (03/22/95)	230.8 (08/07/95)	230.2 (03/11/96)	229.8 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	<5.0	2.7	4.1	3.3	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	1.9	<4.0	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	2.5	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	0.031	<0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	1.2	<10	0.83	1	JE	µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	<5.0	6.3	6.8	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<5.0	<5.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<2.5E-04	<0.049	<0.048	<0.049	1	J	µg/L	GE	0
		Lindane	<0.0084	<0.025	<0.024	<0.025	1	J	µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<9.8	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0
		Trichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	1,300	1,600	2,000	1,800	1		µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<16	<100	1		µg/L	GE	0
		Iron, total recoverable	4.4	15	11	17	1	JE	µg/L	GE	0
		Manganese, total recoverable	<3.3		2.5	1.6	1	JEV	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	1,200	1,500	1,500	1,700	1		µg/L	GE	0
		Selenium, total recoverable	<3.3	<4.7	<5.0	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			3,000	2,300	1		µg/L	GE	0
		Sulfate			390	220	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	<530	<400	<550	1	V	µg/L	GE	0
		Total organic halogens	6.6	<10	<10	<10	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	30	1	JE	µg/L	GE	0
Radionuclides											
		Gross alpha	3.3E+00		1.9E+00	2.7E+00	1		pCi/L	GP	0
		Nonvolatile beta	1.5E+00		1.9E+00	1.7E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	1.6E+00		1.2E+00	8.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold *italics* exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in *italics* is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL MSB 43D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N107274.2 E49322.0	33.343480 °N 81.745360 °W	220.8-200.2 ft msl	358 ft msl	4" PVC	S	M
SAMPLE DATE		01/30/95	08/28/95	02/08/96	07/15/96	
FIELD DATA						
Parameter	1Q95	3Q95	1Q96	3Q96		Unit
Water elevation	231.7	232.7	233.0	232.2		ft msl
pH	4.7	5.0		4.8		pH
Sp. conductance	23	23		20		µS/cm
Water temperature	18.0	19.5		28.0		°C
Alkalinity as CaCO ₃	0	0		0		mg/L
Turbidity	1	0		10		NTU
Volume purged	4.2	9.4		3.4		well volume
Sampling code			P			
Synchronous water level	232.2 (03/22/95)	232.6 (08/07/95)	232.5 (03/11/96)	232.0 (09/19/96)		ft msl

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Arsenic, total recoverable	<3.3	<5.0		<5.0	1		µg/L	GE
		Barium, total recoverable	3.6	3.7		3.8	1	V	µg/L	GE
		Chromium, total recoverable	<6.7	<4.0		<4.0	1		µg/L	GE
		Lead, total recoverable	4.1	3.7		3.4	1	JE	µg/L	GE
		Mercury, total recoverable	<0.33	0.020		<0.20	1		µg/L	GE
		Nickel, total recoverable	<6.7	1.4		1.8	1	JE	µg/L	GE
		Silver, total recoverable	<3.3	<2.0		<2.0	1		µg/L	GE
Organics										
		Acetone	<170	16		4.8	1	JE	µg/L	GE
		Carbon tetrachloride	<1.7	<0.050		<0.050	1		µg/L	GE
		Chloroethene (Vinyl chloride)	<1.7	<0.10		<0.10	1		µg/L	GE
		Chloroform	<17	0.22		0.21	1		µg/L	GE
		1,1-Dichloroethane	<17	<0.050		<0.050	1		µg/L	GE
		1,2-Dichloroethane	<17	<0.050		<0.050	1		µg/L	GE
		1,1-Dichloroethylene	<17	<0.050		<0.050	1		µg/L	GE
		cis-1,2-Dichloroethylene	<1.7	<5.0		<5.0	1		µg/L	GE
		trans-1,2-Dichloroethylene	<17	<0.050		<0.050	1		µg/L	GE
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.049		<0.049	1	J	µg/L	GE
		Lindane	<0.0083	<0.025		<0.025	1	J	µg/L	GE
		Methyl methacrylate	<10	<10		<10	1		µg/L	GE
		Phenol	<17	<10		<10	1	J	µg/L	GE
		Tetrachloroethylene	<1.7	<0.050		<0.050	1		µg/L	GE
		1,1,1-Trichloroethane	<17	<0.050		<0.050	1		µg/L	GE
		Trichloroethylene	<1.7	<0.050		<0.050	1		µg/L	GE

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Chloride	1,400	1,700		1,700	1		µg/L	GE
		Cyanide	<8.3	<20		6.1	1	JE	µg/L	GE
		Fluoride	<50	<100		<100	1		µg/L	GE
		Iron, total recoverable	160	120		17	1	JE	µg/L	GE
		Manganese, total recoverable	30			6.7	1	V	µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	740	940		1,700	1		µg/L	GE
		Selenium, total recoverable	<3.3	<2.9		<5.0	1		µg/L	GE
		Sodium, total recoverable				1,400	1		µg/L	GE
		Sulfate				400	1	JE	µg/L	GE
		Total organic carbon	<1,700	<790		<520	1	V	µg/L	GE
		Total organic halogens	18	14		<10	1		µg/L	GE
		Total phosphates (as P)	<83	<100		<50	1		µg/L	GE
Radionuclides										
		Gross alpha	1.1E+00			1.5E+00	1		pCi/L	GP
		Nonvolatile beta	2.4E-01			1.0E+00	1	UI	pCi/L	GP
		Radium, total alpha-emitting	9.0E-01			1.0E+00	1		pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF

WELL AMB 4B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104145.6 E51482.7	33.340093 °N 81.733582 °W	157.3-152.3 ft msl	380.4 ft msl	4" PVC	S	LL
SAMPLE DATE		02/01/95	09/20/95	01/04/96	07/10/96	
FIELD DATA						
Parameter	1Q95	3Q95	1Q96	3Q96	Unit	
Water elevation	225.8	226.0	225.5	225.1	ft msl	
pH	4.9	4.8	5.2	5.8	pH	
Sp. conductance	27	32	30	44	µS/cm	
Water temperature	18.6	19.4	19.0	26.0	°C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	2	4	1	0	NTU	
Volume purged	2.7	3.2	2.7	2.9	well volume	
Sampling code						
Synchronous water level	225.8 (03/23/95)	226.8 (08/08/95)	225.7 (03/11/96)	225.2 (09/19/96)	ft msl	

ANALYTICAL DATA

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H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<2.7	<5.0	1	V JE	µg/L	GE	0
		Barium, total recoverable	6.5	6.1	5.9	5.9	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.3	0.75	1		µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<3.7	<10	1		µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	6.5	<50	<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<10	<2.0	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	1.3	0.96	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.048	<0.050	1		µg/L	GE	0
		Lindane	<0.0080	<0.025	<0.025	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<50	<10	1		µg/L	GE	0
		Phenol	<17	<10	<9.4	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	0.070	<10	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<10	<2.0	1		µg/L	GE	0
		Trichloroethylene	3.3	2.6	25	3.0	1		µg/L	GE	1

Monitoring Constituents

H	SI	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
■		Chloride	4,400	4,800	4,500	4,400	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	4.8	<18	<18	<18	1		µg/L	GE	0
		Manganese, total recoverable	5.5		5.0	4.8	1	V	µg/L	GE	0
		Nitrate as nitrogen							µg/L	GE	0
		Nitrate-nitrite as nitrogen	720	610	590	950	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.9	<5.0	1.8	1	JE	µg/L	GE	0
		Sodium, total recoverable			3,200	3,000	1	V	µg/L	GE	0
		Sulfate			230	210	1	JE	µg/L	GE	0
		Total organic carbon	1,300	<980	1,600	<1,300	1	V	µg/L	GE	0
		Total organic halogens	18	11	14	5.0	1	JE	µg/L	GE	0
■		Total phosphates (as P)	<83	<100	40	320	1	J	µg/L	GE	0

Radionuclides

	Gross alpha	7.1E-01		7.5E-01	1.6E+00	1		pCi/L	GP	0
	Nonvolatile beta	1.4E+00		1.1E+00	1.4E+00	1	UI	pCi/L	GP	0
	Radium, total alpha-emitting	1.0E-01		9.0E-01	7.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 7

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103920.0 E51624.9	33.339827 °N 81.732769 °W	242.1-222.1 ft msl	369.9 ft msl	4" PVC	S	M

SAMPLE DATE	02/02/95	08/31/95	01/05/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	235.0	235.7	235.2	235.3	ft msl
pH	6.0	5.9	5.8	6.6	pH
Sp. conductance	66	87	60	160	µS/cm
Water temperature	17.8	20.4	21.0	28.0	°C
Alkalinity as CaCO ₃	25	27	1	49	mg/L
Turbidity	9	8	2	3	NTU
Volume purged	1.2	1.0	2.6	1.0	well volume
Sampling code	X	X		X	
Synchronous water level	235.2 (03/23/95)	235.3 (08/08/95)	235.6 (03/11/96)	234.7 (09/19/96)	ft msl

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE
		Barium, total recoverable	8.4	9.5	5.7	13	1	V	µg/L	GE
		Chromium, total recoverable	<6.7	1.3	<1.5	4.0	1	JE	µg/L	GE
		Lead, total recoverable	11	14	<5.0	12	1		µg/L	GE
		Mercury, total recoverable	<0.33	0.025	0.10	<0.13	1	V	µg/L	GE
		Nickel, total recoverable	<6.7	7.0	<4.0	8.2	1	JE	µg/L	GE
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE
Organics										
		Acetone	<170	8.0	<10	<9.7	1	V	µg/L	GE
		Carbon tetrachloride	<1.7	0.050	<2.0	<0.050	1		µg/L	GE
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE
		Chloroform	<1.7	0.070	<2.0	0.060	1		µg/L	GE
		1,1-Dichloroethane	<1.7	0.080	<2.0	0.070	1		µg/L	GE
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		cis-1,2-Dichloroethylene	<1.7	<5.0	0.070	1	JE		µg/L	GE
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.053	<0.050	<0.050	1		µg/L	GE
		Lindane	<0.0083	<0.025	<0.025	<0.025	1		µg/L	GE
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE
		Phenol	<17	<10	<10	<10	1	J	µg/L	GE
		Tetrachloroethylene	<1.7	0.21	<2.0	0.17	1		µg/L	GE
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		Trichloroethylene	4.2	3.5	<2.0	2.5	1		µg/L	GE

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Chloride	2,100	2,400	2,400	1,700	1		µg/L	GE
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE
		Fluoride	<50	<100	<100	21	1	JE	µg/L	GE
		Iron, total recoverable	170	340	140	210	1		µg/L	GE
		Manganese, total recoverable	3.6	2.1	2.1	6.7	1	V	µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	240	550	430	470	1		µg/L	GE
		Selenium, total recoverable	<3.3	2.4	<3.2	<5.0	1		µg/L	GE
		Sodium, total recoverable			6,500	19,000	1	V	µg/L	GE
		Sulfate			1,700	1,900	1		µg/L	GE
		Total organic carbon	<1,700	500	2,400	<1,500	1	V	µg/L	GE
		Total organic halogens	<8.3	12	68	7.5	1	JE	µg/L	GE
		Total phosphates (as P)	<83	40	90	<50	1		µg/L	GE
Radionuclides										
		Gross alpha	1.2E+00		2.7E-01	1.6E+00	1		pCi/L	GP
		Nonvolatile beta	1.0E+00		6.4E-01	2.2E+00	1		pCi/L	GP
		Radium, total alpha-emitting	1.0E-01		0.0E+00	6.0E-01	1		pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 7A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103987.1 E51591.0	33.339920 °N 81.732989 °W	125.6-115.6 ft msl	373.6 ft msl	4" PVC	S	MCBC

SAMPLE DATE 02/02/95 09/15/95 01/05/96 08/14/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.3	220.6	219.9	219.0	ft msl
pH	5.9	5.7	5.8	6.6	pH
Sp. conductance	25	29	26	38	µS/cm
Water temperature	18.5	19.0	19.0	22.0	°C
Alkalinity as CaCO ₃	5	5	1	3	mg/L
Turbidity	2	2	3	3	NTU
Volume purged	2.9	3.5	3.0	2.4	well volume
Sampling code					
Synchronous water level	220.4 (03/23/95)	220.9 (08/08/95)	220.2 (03/11/96)	219.6 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

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H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<2.7	<2.6	<4.4	1	V	µg/L	GE	0
		Barium, total recoverable	4.6	4.8	4.4	4.4	1		µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<1.3	<4.0	1		µg/L	GE	0
		Lead, total recoverable	<5.0	2.5	<5.0	<5.0	1		µg/L	GE	0
		Mercury, total recoverable	<0.33	<0.20	<0.20	0.067	1	JE	µg/L	GE	0
		Nickel, total recoverable	<6.7	<2.3	<3.4	<1.8	1	V	µg/L	GE	0
		Silver, total recoverable	<3.3	<1.4	<2.0	<2.0	1		µg/L	GE	0
Organics											
■		Acetone	<830	7.7	<50	55	10		µg/L	GE	0
		Carbon tetrachloride	<8.3	0.73	<10	0.70	10		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<8.3	<0.10	<10	<1.0	10		µg/L	GE	0
		Chloroform	<8.3	0.35	<10	<0.50	10		µg/L	GE	0
		1,1-Dichloroethane	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		1,2-Dichloroethane	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		1,1-Dichloroethylene	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		cis-1,2-Dichloroethylene	<8.3	5.3		4.8	10	JE	µg/L	GE	0
		trans-1,2-Dichloroethylene	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0026	<0.051	<0.050	<0.049	1	J	µg/L	GE	0
●		Lindane	<0.0093	<0.025	<0.025	<0.025	1	J1	µg/L	GE	0
		Methyl methacrylate	<50	<10	<50	<100	10		µg/L	GE	0
		Phenol	<17	<10	<9.4	<10	1	J	µg/L	GE	0
■		Tetrachloroethylene	17	21	20	32	10		µg/L	GE	2
		1,1,1-Trichloroethane	<8.3	<0.050	<10	<0.50	10		µg/L	GE	0
■		Trichloroethylene	270	230	170	180	10		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	1,700	2,000	1,600	1,900	1		µg/L	GE	0
		Cyanide	<8.3	18	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<20	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	4.7	21	17	<18	1	J	µg/L	GE	0
		Manganese, total recoverable	5.9		5.5	5.6	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	810	900	680	1,100	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	2.8	<2.2	<5.0	1		µg/L	GE	0
		Sodium, total recoverable			1,800	1,800	1	V	µg/L	GE	0
		Sulfate			410	440	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	750	<730	<1,100	1	V	µg/L	GE	0
■		Total organic halogens	120	190	160	89	1	V	µg/L	GE	1
		Total phosphates (as P)	<83	30	70	<50	1		µg/L	GE	0
Radionuclides											
		Gross alpha	4.2E-01		9.8E-01	2.8E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	8.0E-01		3.2E-01	1.0E+00	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	3.0E-01		-2.0E-01	-7.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 7B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103972.0 E51590.3	33.339885 °N 81.732961 °W	162.9-152.9 ft msl	373 ft msl	4" PVC	S	LL

SAMPLE DATE	02/02/95	08/30/95	01/05/96	07/09/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	226.0	227.5	225.6	225.2	ft msl
pH	5.0	5.1	5.4	5.6	pH
Sp. conductance	24	29	24	38	µS/cm
Water temperature	18.8	19.0	20.0	25.0	°C
Alkalinity as CaCO ₃	1	0	1	1	mg/L
Turbidity	1	1	1	1	NTU
Volume purged	4.2	3.8	2.5	3.5	well volume
Sampling code					
Synchronous water level	226.1 (03/23/95)	227.0 (08/08/95)	225.9 (03/11/96)	225.2 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Arsenic, total recoverable	<3.3	<5.0	<5.9	<5.0	1		µg/L	GE
		Barium, total recoverable	<5.0	1.6	2.1	2.1	1	JEV	µg/L	GE
		Chromium, total recoverable	<6.7	<4.0	<2.8	<4.0	1		µg/L	GE
		Lead, total recoverable	<5.0	<5.0	<5.0	<5.0	1		µg/L	GE
		Mercury, total recoverable	<0.33	<0.20	0.020	0.79	1	V	µg/L	GE
		Nickel, total recoverable	<6.7	<10	<3.9	<10	1		µg/L	GE
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE
Organics										
		Acetone	<170	6.7	<10	<4.7	1	V	µg/L	GE
		Carbon tetrachloride	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE
		Chloroform	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		cis-1,2-Dichloroethylene	<1.7	0.11		0.11	1	JE	µg/L	GE
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.050	<0.049	1		µg/L	GE
		Lindane	<0.0084	<0.026	<0.025	<0.025	1		µg/L	GE
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE
		Phenol	<16	<10	<9.3	<10	1	J	µg/L	GE
		Tetrachloroethylene	<1.7	0.28	<2.0	0.50	1		µg/L	GE
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		Trichloroethylene	4.0	4.3	3.1	6.0	1		µg/L	GE

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Chloride	3,400	3,200	3,300	2,900	1		µg/L	GE
		Cyanide	<8.3	1.0	<10	<10	1		µg/L	GE
		Fluoride	<50	<100	<100	<100	1		µg/L	GE
		Iron, total recoverable	<6.7	<18	130	<18	1		µg/L	GE
		Manganese, total recoverable	<3.3		2.4	2.1	1	V	µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	410	420	460	800	1		µg/L	GE
		Selenium, total recoverable	<3.3	<5.0	<4.6	<5.0	1		µg/L	GE
		Sodium, total recoverable			3,800	3,800	1	V	µg/L	GE
		Sulfate			960	860	1	JE	µg/L	GE
		Total organic carbon	<1,700	510	<1,500	<1,100	1	V	µg/L	GE
		Total organic halogens	21	17	18	15	1		µg/L	GE
		Total phosphates (as P)	<83	<100	<50	190	1		µg/L	GE
Radionuclides										
		Gross alpha	2.5E-01		2.5E-01	5.8E-01	1	UI	pCi/L	GP
		Nonvolatile beta	1.1E+00		5.1E-02	1.2E+00	1	UI	pCi/L	GP
		Radium, total alpha-emitting	2.0E-01		4.0E-01	0.0E+00	1	UI	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 11B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103154.2 E51919.5	33.338615 °N 81.730503 °W	184.5-174.5 ft msl	364.6 ft msl	4" PVC	S	UL

SAMPLE DATE	02/03/95	08/30/95	02/14/96	07/10/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	224.2	225.6	224.6	223.4	ft msl
pH	6.1	5.7	4.4	6.4	pH
Sp. conductance	44	43	64	54	µS/cm
Water temperature	17.2	18.9	17.0	25.0	°C
Alkalinity as CaCO ₃	12	7	10	8	mg/L
Turbidity	1	1	1	0	NTU
Volume purged	3.0	2.5	2.4	3.8	well volume
Sampling code					
Synchronous water level	224.4 (03/23/95)	225.0 (08/08/95)	224.2 (03/11/96)	223.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	0
		Barium, total recoverable	33	50	31	31	1	V	µg/L	GE	0
		Chromium, total recoverable	<6.7	<4.0	<4.0	1.3	1	JE	µg/L	GE	0
		Lead, total recoverable	<5.0	<5.0	<5.0	1.2	1	JE	µg/L	GE	0
		Mercury, total recoverable	<0.33	0.018	0.23	<0.20	1		µg/L	GE	0
		Nickel, total recoverable	<6.7	<10	<10	1.8	1	JE	µg/L	GE	0
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	6.2	<10	<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<2.0	1		µg/L	GE	0
		Chloroform	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		cis-1,2-Dichloroethylene	<1.7	<5.0	<2.0	<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.051	<0.049	1		µg/L	GE	0
		Lindane	<0.0084	<0.025	<0.024	<0.025	1		µg/L	GE	0
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	0
		Phenol	<17	<10	<9.9	<10	1	J	µg/L	GE	0
		Tetrachloroethylene	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<2.0	1		µg/L	GE	0
		Trichloroethylene	<1.7	0.080	<2.0	<2.0	1		µg/L	GE	0

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	3,700	3,900	4,200	3,800	1	V	µg/L	GE	0
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	0
		Fluoride	<50	<100	<100	<100	1		µg/L	GE	0
		Iron, total recoverable	4.2	37	<18	<18	1		µg/L	GE	0
		Manganese, total recoverable	12		9.7	11	1	V	µg/L	GE	0
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	330	320	260	470	1	V	µg/L	GE	0
		Selenium, total recoverable	<3.3	<1.5	<5.0	2.1	1	JE	µg/L	GE	0
		Sodium, total recoverable			2,100	2,100	1	V	µg/L	GE	0
		Sulfate			520	430	1	JE	µg/L	GE	0
		Total organic carbon	<1,700	1,500	470	<1,000	1	V	µg/L	GE	0
		Total organic halogens	<8.3	23	<10	<10	1		µg/L	GE	0
		Total phosphates (as P)	<83	<100	<50	<50	1	J	µg/L	GE	0
Radionuclides											
		Gross alpha	5.0E-01		5.7E-01	5.1E-01	1	UI	pCi/L	GP	0
		Nonvolatile beta	5.9E-01		8.6E-01	7.2E-01	1	UI	pCi/L	GP	0
		Radium, total alpha-emitting	1.0E-01		2.0E-01	3.0E-01	1		pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 13AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N103082.0 E51396.0	33.337600 °N 81.731742 °W	110.9-100.9 ft msl	365.1 ft msl	4" PVC	S	MCBC

SAMPLE DATE	02/02/95	08/31/95	02/15/96	07/26/96
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FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	220.1	221.4	220.3	218.9	ft msl
pH	7.2	10.1	6.8	9.0	pH
Sp. conductance	83	134	100	120	µS/cm
Water temperature	19.1	18.5	20.0	29.0	°C
Alkalinity as CaCO ₃	33	29	35	28	mg/L
Turbidity	14	9	19	8	NTU
Volume purged	2.4	0.94	2.1	0.83	well volume
Sampling code		X		X	
Synchronous water level	220.3 (03/23/95)	220.8 (08/08/95)	220.0 (03/11/96)	219.5 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	
Inorganics											
		Arsenic, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	
		Barium, total recoverable	31	38	30	44	1	V	µg/L	GE	
		Chromium, total recoverable	<6.7	10	5.3	15	1	V	µg/L	GE	
		Lead, total recoverable	<5.0	<2.5	<5.0	<5.0	1		µg/L	GE	
		Mercury, total recoverable	<0.33	<0.20	0.16	<0.20	1		µg/L	GE	
		Nickel, total recoverable	<6.7	1.1	<10	<10	1		µg/L	GE	
		Silver, total recoverable	<3.3	<2.0	<2.0	<2.0	1		µg/L	GE	
Organics											
■		Acetone	<170	3.7	<5.0	14	1		µg/L	GE	
		Carbon tetrachloride	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<0.10	0.46	1		µg/L	GE	
		Chloroform	<1.7	<0.050	<0.050	0.060	1		µg/L	GE	
■		1,1-Dichloroethane	<1.7	<0.050	<0.050	0.37	1		µg/L	GE	
		1,2-Dichloroethane	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	
		1,1-Dichloroethylene	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	
		cis-1,2-Dichloroethylene	<1.7	<5.0	0.060	<5.0	1		µg/L	GE	
		trans-1,2-Dichloroethylene	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	
		2,4-Dichlorophenoxyacetic acid	<0.0025	<0.051	<0.050	<0.050	1	J	µg/L	GE	
		Lindane	<0.0085	<0.026	<0.025	<0.025	1		µg/L	GE	
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE	
		Phenol	<17	<10	<10	<10	1	J	µg/L	GE	
		Tetrachloroethylene	<1.7	0.12	<0.050	0.10	1		µg/L	GE	
		1,1,1-Trichloroethane	<1.7	<0.050	<0.050	<0.050	1		µg/L	GE	
		Trichloroethylene	1.5	0.92	0.92	0.74	1		µg/L	GE	

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	
Inorganics											
		Chloride	2,400	2,700	2,300	2,600	1		µg/L	GE	
		Cyanide	<8.3	<20	<10	<10	1		µg/L	GE	
		Fluoride	<50	45	<100	<100	1		µg/L	GE	
		Iron, total recoverable	84	210	260	180	1		µg/L	GE	
		Manganese, total recoverable	5.6		7.9	5.3	1	V	µg/L	GE	
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	990	1,200	820	1,600	1	V	µg/L	GE	
		Selenium, total recoverable	<3.3	<5.0	<5.0	<5.0	1		µg/L	GE	
■		Sodium, total recoverable			3,800	5,600	1		µg/L	GE	
		Sulfate			1,500	1,400	1		µg/L	GE	
		Total organic carbon	<1,700	770	330	<1,500	1	V	µg/L	GE	
		Total organic halogens	17	<10	<10	16	1		µg/L	GE	
		Total phosphates (as P)	220	50	<50	<30	1	V	µg/L	GE	
Radionuclides											
		Gross alpha	2.6E+00		2.0E+00	1.7E+00	1		pCi/L	GP	
		Nonvolatile beta	4.3E+00		4.8E+00	3.5E+00	1		pCi/L	GP	
		Radium, total alpha-emitting	1.1E+00		-1.0E-01	7.0E-01	1		pCi/L	GP	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 14D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104278.7 E51360.8	33.340188 °N 81.734162 °W	235.1-215.1 ft msl	382.4 ft msl	2" PVC	V	M

SAMPLE DATE 03/17/95 09/20/95 01/08/96 07/03/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	232.5	233.1	232.7	232.8	ft msl
pH	7.6	6.2		5.6	pH
Sp. conductance	204	112		28	µS/cm
Water temperature	17.4	20.2		30.0	°C
Alkalinity as CaCO ₃	89	34		8	mg/L
Turbidity	47	46		13	NTU
Volume purged	0.35	0.68		3.1	well volume
Sampling code	X	I	P		
Synchronous water level	233.7 (03/23/95)	232.8 (08/07/95)	232.6 (03/11/96)	232.0 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Arsenic, total recoverable	<5.0			<5.0	1		µg/L	GE	0
		Barium, total recoverable	14			4.9	1	V	µg/L	GE	0
		Chromium, total recoverable	3.7			11	1		µg/L	GE	0
		Lead, total recoverable	2.0			5.7	1		µg/L	GE	0
		Mercury, total recoverable	<0.20			<0.20	1		µg/L	GE	0
		Nickel, total recoverable	13			7.2	1	JE	µg/L	GE	0
		Silver, total recoverable	<0.65			<2.0	1		µg/L	GE	0
Organics											
		Acetone	<170	8.2		<10	1		µg/L	GE	0
		Carbon tetrachloride	<1.7	0.80		<2.0	1		µg/L	GE	0
		Chloroethene (Vinyl chloride)	<1.7	<0.10		<2.0	1		µg/L	GE	0
		Chloroform	1.0	0.48		<2.0	1		µg/L	GE	0
		1,1-Dichloroethane	<1.7	0.34		<2.0	1		µg/L	GE	0
		1,2-Dichloroethane	<1.7	<0.050		<2.0	1		µg/L	GE	0
		1,1-Dichloroethylene	1.1	2.1		1.6	1	JE	µg/L	GE	0
		cis-1,2-Dichloroethylene	1.2	1.2		<2.0	1		µg/L	GE	0
		trans-1,2-Dichloroethylene	<1.7	<0.050		<2.0	1		µg/L	GE	0
		2,4-Dichlorophenoxyacetic acid	<0.051			<0.050	1		µg/L	GE	0
		Lindane	<0.025			<0.025	1	J1	µg/L	GE	0
		Methyl methacrylate	<10	<10		<10	1		µg/L	GE	0
		Phenol	<17			<10	1	J	µg/L	GE	0
■		Tetrachloroethylene	20	28		26	1		µg/L	GE	2
		1,1,1-Trichloroethane	<1.7	1.5		<2.0	1		µg/L	GE	0
■		Trichloroethylene	80	120		50	1		µg/L	GE	2

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab	Flag
Inorganics											
		Chloride	2,100			1,600	1		µg/L	GE	0
		Cyanide	<20			<1.6	1	V	µg/L	GE	0
		Fluoride	<500			<100	1		µg/L	GE	0
■		Iron, total recoverable	370			510	1		µg/L	GE	2
		Manganese, total recoverable	33			28	1	V	µg/L	GE	1
		Nitrate as nitrogen									
		Nitrate-nitrite as nitrogen	300			1,600	1		µg/L	GE	0
		Selenium, total recoverable	<1.4			<5.0	1		µg/L	GE	0
		Sodium, total recoverable	18,000			3,400	1	V	µg/L	GE	0
		Sulfate	3,400			270	1	JE	µg/L	GE	0
		Total organic carbon	1,900			520	1	JE	µg/L	GE	0
■		Total organic halogens	82			51	1		µg/L	GE	1
		Total phosphates (as P)	50			30	1	JE	µg/L	GE	
Radionuclides											
		Gross alpha	-5.1E-01			1.3E+00	1		pCi/L	GP	0
		Nonvolatile beta	2.3E+00			1.2E+00	1		pCi/L	GP	0
		Radium, total alpha-emitting	2.0E-01			-1.0E-01	1	UI	pCi/L	GP	0

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3-5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

WELL AMB 15D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N104500.6 E51383.8	33.340716 °N 81.734534 °W	236.2-216.2 ft msl	383.4 ft msl	2" PVC	V	M

SAMPLE DATE 03/17/95 09/20/95 01/09/96 08/15/96

FIELD DATA

Parameter	1Q95	3Q95	1Q96	3Q96	Unit
Water elevation	234.8	235.4	234.9	234.4	ft msl
pH	6.6	5.9	6.8	5.8	pH
Sp. conductance	186	140	260	82	µS/cm
Water temperature	22.0	20.4	22.0	26.0	°C
Alkalinity as CaCO ₃	79	43	21	28	mg/L
Turbidity	281	29	51	42	NTU
Volume purged	0.65	0.95	0.0	2.0	well volume
Sampling code	X	X	X	X	
Synchronous water level	235.0 (03/23/95)	235.1 (08/07/95)	234.9 (03/11/96)	234.3 (09/19/96)	ft msl

ANALYTICAL DATA

Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Arsenic, total recoverable	<5.0	2.6	<7.1	5.0	1	JE	µg/L	GE
		Barium, total recoverable	30	9.5	59	9.1	1		µg/L	GE
		Chromium, total recoverable	5.9	10	34	9.6	1		µg/L	GE
■		Lead, total recoverable	32	<5.0	70	300	1		µg/L	GE
		Mercury, total recoverable	<0.20	<0.20	0.058	<0.20	1		µg/L	GE
		Nickel, total recoverable	39	12	28	9.1	1	JE	µg/L	GE
		Silver, total recoverable	<0.65	<2.0	<2.0	<2.0	1		µg/L	GE
Organics										
		Acetone	<170	5.8	<10	<5.0	1		µg/L	GE
		Carbon tetrachloride	<1.7	0.26	<2.0	0.090	1		µg/L	GE
		Chloroethene (Vinyl chloride)	<1.7	<0.10	<2.0	<0.10	1		µg/L	GE
		Chloroform	<1.7	0.12	<2.0	0.080	1		µg/L	GE
		1,1-Dichloroethane	<1.7	0.080	<2.0	<0.050	1		µg/L	GE
		1,2-Dichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		1,1-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		cis-1,2-Dichloroethylene	1.2	0.70		0.29	1	JE	µg/L	GE
		trans-1,2-Dichloroethylene	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		2,4-Dichlorophenoxyacetic acid	0.041	<0.052	<0.049	<0.051	1	J	µg/L	GE
		Lindane	<0.025	<0.025	<0.025	<0.025	1		µg/L	GE
		Methyl methacrylate	<10	<10	<10	<10	1		µg/L	GE
		Phenol	<17	<10	<10	<10	1	J1	µg/L	GE
		Tetrachloroethylene	<1.7	0.68	<2.0	1.3	1		µg/L	GE
■		1,1,1-Trichloroethane	<1.7	<0.050	<2.0	<0.050	1		µg/L	GE
		Trichloroethylene	30	26	4.2	12	1		µg/L	GE

Monitoring Constituents

H	ST	Parameter	1Q95	3Q95	1Q96	3Q96	DF	Mod	Unit	Lab
Inorganics										
		Chloride	2,500	2,500	2,200	2,100	1		µg/L	GE
		Cyanide	<20	<20	<10	<10	1		µg/L	GE
		Fluoride	<500	<100	<100	<100	1	J	µg/L	GE
■		Iron, total recoverable	960	3,600	23,000	4,200	1		µg/L	GE
		Manganese, total recoverable	110	54	88	36	1	V	µg/L	GE
		Nitrate as nitrogen								
		Nitrate-nitrite as nitrogen	640	770	800	900	1		µg/L	GE
		Selenium, total recoverable	<1.9	<1.5	<2.7	<5.0	1		µg/L	GE
■		Sodium, total recoverable	27,000	9,000	5,500	6,100	1		µg/L	GE
		Sulfate	5,900	2,200	2,400	2,200	1	V	µg/L	GE
		Total organic carbon	1,200	1,400	<520	<2,300	1	V	µg/L	GE
		Total organic halogens	14	59	20	<13	1	V	µg/L	GE
■		Total phosphates (as P)	700	<160	2,100	310	1		µg/L	GE
Radionuclides										
		Gross alpha	3.9E+00	5.5E-01	5.7E-01	1.4E+00	1		pCi/L	GP
		Nonvolatile beta	4.1E+00	2.5E+00	1.7E-01	2.0E+00	1		pCi/L	GP
		Radium, total alpha-emitting	8.0E-01		9.0E-01	0.0E+00	1	UI	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Each radionuclide result in italics is less than its associated sample quantitation limit. Synchronous water levels are measured over a 3–5 day period or less. Dilution factor, modifier, laboratory, and flag are for third quarter 1996 only. See Appendix B for flagging criteria.

● = exceeded holding time for third quarter 1996.

■ = exceeded groundwater protection or monitoring constituent standard for third quarter 1996.

Table D-9. Constituents Exceeding Groundwater Protection or Monitoring Constituents Standard in Point-of-Compliance Wells, M-Area HWMF

Well	Constituent	Unit	1Q96	Mod	3Q96	Mod
M-Area Aquifer Zone						
MSB 1D	Nitrate-nitrite as nitrogen	µg/L	NA		2,600	V
	Sodium	µg/L	NA		4,900	
	Tetrachloroethylene	µg/L	280		430	J1
	Trichloroethylene	µg/L	96		150	J1
MSB 2D	Aluminum	µg/L	260	JV	290	V
	Nitrate-nitrite as nitrogen	µg/L	—	JV	4,100	V
	Radium, total alpha-emitting	pCi/L	NA		8.9E+00	
	Tetrachloroethylene	µg/L	3,600		460	
	Trichloroethylene	µg/L	3,000		370	
MSB 4D	Aluminum	µg/L	NA		170	
	Nitrate-nitrite as nitrogen	µg/L	NA		4,300	
	Radium, total alpha-emitting	pCi/L	NA		5.5E+00	
	Tetrachloroethylene	µg/L	230		180	
	Trichloroethylene	µg/L	340		220	
MSB 5A	Trichloroethylene	µg/L	—		6.5	
MSB 6A	Aluminum	µg/L	190		—	V
	Chloride	µg/L	NA		4,800	V
	Sodium	µg/L	NA		5,100	V
MSB 7A	Sodium	µg/L	NA		5,100	V
MSB 8A	Nitrate-nitrite as nitrogen	µg/L	2,800	JV	4,000	V
	1,1,2,2-Tetrachloroethane	µg/L	—		23	
	Tetrachloroethylene	µg/L	92		21	
	Trichloroethylene	µg/L	29		9.5	JE
MSB 13D	1,1-Dichloroethylene	µg/L	8.1		—	
	Lead	µg/L	15	J	—	
	Nitrate-nitrite as nitrogen	µg/L	43,000	J	42,000	
	Sodium	µg/L	NA		92,000	
	Sulfate	µg/L	NA		5,100	
	Tetrachloroethylene	µg/L	34		9.2	
	Trichloroethylene	µg/L	18		14	
MSB 57D	Aluminum	µg/L	130	J	—	
	Tetrachloroethylene	µg/L	150		86	
	Trichloroethylene	µg/L	74		46	
MSB 58D	Aluminum	µg/L	280	V	770	
	Lead	µg/L	42	J	98	
	Tetrachloroethylene	µg/L	990		700	
	Trichloroethylene	µg/L	1,400		1,200	
MSB 59D	Aluminum	µg/L	460	V	240	V
	Manganese	µg/L	81		56	V
	Nitrate-nitrite as nitrogen	µg/L	4,800	J	3,000	V
	Tetrachloroethylene	µg/L	67,000		22,000	
	Trichloroethylene	µg/L	14,000		5,300	

Well	Constituent	Unit	1Q96	Mod	3Q96	Mod
MSB 60D	Nitrate-nitrite as nitrogen	µg/L	NA		3,800	V
	Sodium	µg/L	NA		5,200	
	Tetrachloroethylene	µg/L	710		1,300	
	Trichloroethylene	µg/L	180		360	
MSB 62D	Aluminum	µg/L	1,600	J	1,300	
	Lead	µg/L	—		340	
	Nitrate-nitrite as nitrogen	µg/L	8,400	V	9,800	V
	Sodium	µg/L	NA		38,000	
	Sulfate	µg/L	NA		5,400	
	Tetrachloroethylene	µg/L	110		84	
	Trichloroethylene	µg/L	33		30	
MSB 63D	Aluminum	µg/L	980	V	1,100	
	Lead	µg/L	—		45	
	Nitrate-nitrite as nitrogen	µg/L	3,000	J	3,400	V
	Tetrachloroethylene	µg/L	270		220	
	Trichloroethylene	µg/L	49		35	
MSB 64D	Chloride	µg/L	NA		4,500	
	Nitrate-nitrite as nitrogen	µg/L	2,700	J	2,500	V
	Sodium	µg/L	NA		13,000	
Upper Lost Lake Aquifer Zone						
MSB 1C	Aluminum	µg/L	2,400	J3	560	
	Nitrate-nitrite as nitrogen	µg/L	NA		15,000	V
	Sodium	µg/L	NA		25,000	
	Sulfate	µg/L	NA		3,600	
	Tetrachloroethylene	µg/L	290		440	J1
	Trichloroethylene	µg/L	66		66	J1
MSB 1CC	Nitrate-nitrite as nitrogen	µg/L	NA		6,400	
	Sodium	µg/L	NA		10,000	
	Tetrachloroethylene	µg/L	16		10	
	Trichloroethylene	µg/L	40		35	
MSB 2C	Aluminum	µg/L	NA		490	V
	Nitrate-nitrite as nitrogen	µg/L	NA		11,000	V
	Sodium	µg/L	NA		21,000	
	Tetrachloroethylene	µg/L	11,000		14,000	
	Trichloroethylene	µg/L	11,000		22,000	
MSB 3C	Aluminum	µg/L	NA		2,900	
	Lead	µg/L	18		23	
	Nonvolatile beta	pCi/L	NA		5.9E+01	
	Sodium	µg/L	NA		51,000	
	Tetrachloroethylene	µg/L	32,000		22,000	Y
	Trichloroethylene	µg/L	12,000		10,000	Y
MSB 4C	Nitrate-nitrite as nitrogen	µg/L	NA		19,000	
	Sodium	µg/L	NA		13,000	
	Tetrachloroethylene	µg/L	5,100		6,700	
	Trichloroethylene	µg/L	5,400		8,900	
MSB 5C	Chloride	µg/L	NA		4,500	
	1,1-Dichloroethylene	µg/L	36		49	
	Nitrate-nitrite as nitrogen	µg/L	NA		22,000	V
	Sodium	µg/L	NA		28,000	

Well	Constituent	Unit	1Q96	Mod	3Q96	Mod	
MSB 6C	Tetrachloroethylene	µg/L	180	JE	190	JE	
	Trichloroethylene	µg/L	18		19		
	Nitrate-nitrite as nitrogen	µg/L	NA		41,000	V	
	Sodium	µg/L	NA		78,000		
	Sulfate	µg/L	NA		6,000		
	Tetrachloroethylene	µg/L	110		89		
Trichloroethylene	µg/L	28	37				
MSB 7C	Nitrate-nitrite as nitrogen	µg/L	NA		30,000	V	
	Radium, total alpha-emitting	pCi/L	NA		5.1E+00	V	
	Sodium	µg/L	NA		42,000		
	Tetrachloroethylene	µg/L	31		37		
	Trichloroethylene	µg/L	13		19		
MSB 8C	Aluminum	µg/L	NA		110	V	
	Chloride	µg/L	NA		4,900		
	1,1-Dichloroethylene	µg/L	20		13	V	
	Nitrate-nitrite as nitrogen	µg/L	NA		15,000		
	Sodium	µg/L	NA		24,000		
	Tetrachloroethylene	µg/L	100		48		
	Trichloroethylene	µg/L	68		38		
MSB 13CC	Lead	µg/L	32	J	—	V	
	Nitrate-nitrite as nitrogen	µg/L	NA		8,500		
	Sodium	µg/L	NA		20,000		
	Sulfate	µg/L	NA		6,000		
	Tetrachloroethylene	µg/L	12		12		
	Trichloroethylene	µg/L	12		14		
MSB 62C	1,1-Dichloroethylene	µg/L	9.5	JE	11	V	
	Nitrate-nitrite as nitrogen	µg/L	NA		13,000		
	Sodium	µg/L	NA		20,000		JV
	Tetrachloroethylene	µg/L	160		75		
	Trichloroethylene	µg/L	75		93		
MSB 63C	Nitrate-nitrite as nitrogen	µg/L	NA		2,500	V	
	Tetrachloroethylene	µg/L	24		9.6		
	Trichloroethylene	µg/L	7.9		—		
MSB 64C	Aluminum	µg/L	NA		170	JE	
	Chloride	µg/L	NA		4,900		
	1,1-Dichloroethylene	µg/L	—		13		
	Nitrate-nitrite as nitrogen	µg/L	NA		16,000		V
	Sodium	µg/L	NA		13,000		
	Tetrachloroethylene	µg/L	350		340		
	Trichloroethylene	µg/L	59		51		
Lower Lost Lake Aquifer Zone							
MSB 1B	Aluminum	µg/L	NA		270	V	
	Trichloroethylene	µg/L	670		460	J1	
MSB 2B	Aluminum	µg/L	NA		1,100	V	
	Nitrate-nitrite as nitrogen	µg/L	NA		5,800	V	
	Sodium	µg/L	NA		35,000		
	Tetrachloroethylene	µg/L	11,000		2,400		
	Trichloroethylene	µg/L	18,000		4,900		

Well	Constituent	Unit	1Q96	Mod	3Q96	Mod
MSB 3B	Tetrachloroethylene	µg/L	160		100	
	Trichloroethylene	µg/L	1,100		2,200	
MSB 4B	Tetrachloroethylene	µg/L	48	JE	43	JE
	Trichloroethylene	µg/L	1,200		830	
MSB 5B	Trichloroethylene	µg/L	12		26	
MSB 6B	Aluminum	µg/L	NA		160	
	Nitrate-nitrite as nitrogen	µg/L	NA		3,300	V
	Tetrachloroethylene	µg/L	44	JE	—	
	Trichloroethylene	µg/L	1,700		1,200	J1
MSB 7B	Nitrate-nitrite as nitrogen	µg/L	NA		7,900	V
	Sodium	µg/L	NA		6,900	
	Tetrachloroethylene	µg/L	10		100	J1
	Trichloroethylene	µg/L	—		28	J1
MSB 8B	Trichloroethylene	µg/L	28		25	
MSB 13A	Trichloroethylene	µg/L	620		550	Y
MSB 62B	Tetrachloroethylene	µg/L	37		27	
	Trichloroethylene	µg/L	57		39	
MSB 63B	Nitrate-nitrite as nitrogen	µg/L	NA		2,800	V
	Tetrachloroethylene	µg/L	10		21	
	Trichloroethylene	µg/L	440		470	
Middle Sand Aquifer Zone of the Crouch Branch Confining Unit						
MSB 39A	Aluminum	µg/L	NA		350	
	Nitrate-nitrite as nitrogen	µg/L	NA		2,700	V
	Sodium	µg/L	NA		4,700	V
	Sulfate	µg/L	NA		4,000	
	Trichloroethylene	µg/L	—		6.3	

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-10. Constituents Exceeding Groundwater Protection or Monitoring Constituents Standard in Point-of-Compliance Wells, Met Lab HWMF

Well	Constituent	Unit	1Q96	Mod	3Q96	Mod
M-Area Aquifer Zone						
AMB 4D	1,1-Dichloroethane	µg/L	—		0.56	
	Nonvolatile beta	pCi/L	—		7.0E+01	
	Sodium	µg/L	6,200	JV	7,400	V
	Sulfate	µg/L	4,600		11,000	
	Trichloroethylene	µg/L	—		38	
AMB 5	Iron	µg/L	380		430	
	Sodium	µg/L	9,500	JV	9,200	V
	Sulfate	µg/L	6,700		6,600	
	Trichloroethylene	µg/L	15		16	
AMB 8D	Sodium	µg/L	12,000	JV3	11,000	V
	Sulfate	µg/L	4,500		3,900	
AMB 9D	Sodium	µg/L	8,100	JV	8,600	V
	Sulfate	µg/L	3,900		4,800	
AMB 10D	Sodium	µg/L	6,000		7,500	V
	Sulfate	µg/L	—		3,600	
AMB 16D	Sodium	µg/L	5,900		4,700	
	Sulfate	µg/L	3,600		—	V
Upper Lost Lake Aquifer Zone						
AMB 18C	Lead	µg/L	59		—	JE
	Sodium	µg/L	4,800	V	4,700	J
AMB 19C	Sodium	µg/L	12,000	V	11,000	V
	Sulfate	µg/L	9,000		8,800	
Middle Sand Aquifer Zone of the Crouch Branch Confining Unit						
AMB 4A	Acetone	µg/L	—		96	JE
	Sodium	µg/L	—		11,000	
	Sulfate	µg/L	—		3,300	
	Tetrachloroethylene	µg/L	23	JE	49	
	Total organic halogens	µg/L	140		320	
	Trichloroethylene	µg/L	360		430	
AMB 10A	Sodium	µg/L	10,000		14,000	V
	Sulfate	µg/L	6,500		5,200	
	Total organic halogens	µg/L	79	V	—	
AMB 17A	Acetone	µg/L	—		140	
	Radium, total alpha-emitting	pCi/L	—		8.3E+00	
	Tetrachloroethylene	µg/L	56		56	
	Total organic halogens	µg/L	190		400	
	Trichloroethylene	µg/L	520		570	J

<i>Well</i>	<i>Constituent</i>	<i>Unit</i>	<i>1Q96</i>	<i>Mod</i>	<i>3Q96</i>	<i>Mod</i>
AMB 18A	Acetone	µg/L	—		12	
	Trichloroethylene	µg/L	41		47	

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-11. Maximum Results for Appendix IX Constituents Not Currently Used to Determine Compliance

<u>Well</u>	<u>Constituent</u>	3Q96 ^a <u>Result (µg/L)</u>	<u>Qualifiers</u>
MSB 1B	Beryllium	0.109	J, E
	Fluoranthene	0.51	J, E
MSB 1CC	Bis(2-ethylhexyl) phthalate	0.541	J, E
	Cyanide	3.43	J, E
	Sulfide	21	J, E, Q
MSB 1D	Beryllium	0.0118	J, E
	Bis(2-ethylhexyl) phthalate	5.88	
MSB 8C	Beryllium	0.453	J, E, V
MSB 13A	NA ^b		
MSB 39A	Beryllium	1.06	J, E, V
	Cadmium	4.54	J, V
	Thallium	4.25	J, E
	Tin	3.07	J, E
	Vanadium	2.1	J, E
MSB 60D	Thallium	3.03	J, E
	Tin	1.5	J, E
MSB 64D	NA		

^a Sample dates were 7/15/96 through 8/5/96.

^b NA = not applicable. No constituents analyzed for this well were detected above sample quantitation limits.

Note: The concentrations reported third quarter 1996 exceeded the sample quantitation limits for the constituents listed.

Table D-12. Horizontal Gradients and Flow Rates in the Five Aquifer Zones

Third Quarter 1996

Aquifer Zone	Transect	Horizontal Gradient	Flow Rate (ft/day)	Flow Rate (ft/year)
M-Area	A-A' ^a	0.0043	0.58	210
	B-B'	0.0029	0.39	140
	C-C'	0.0080	1.1	400
Upper Lost Lake	A-A'	0.0067	1.5	550
	B-B'	0.0027	0.61	220
	C-C'	0.0035	0.79	290
Lower Lost Lake	A-A'	0.0037	0.83	300
Middle Sand of the CBCU	A-A'	0.0041	0.92	340
Crouch Branch	A-A'	0.0038	0.76	280

Fourth Quarter 1996

Aquifer Zone	Transect	Horizontal Gradient	Flow Rate (ft/day)	Flow Rate (ft/year)
M-Area	A-A' ^b	0.0040	0.54	200
	B-B'	0.0028	0.39	140
	C-C'	0.0080	1.1	400
Upper Lost Lake	A-A'	0.0063	1.4	510
	B-B'	0.0021	0.47	170
	C-C'	0.0040	0.90	330
Lower Lost Lake	A-A'	0.0034	0.77	280
Middle Sand of the CBCU	A-A'	0.0042	0.95	350
Crouch Branch	A-A'	0.0039	0.78	280

^a Transects are identified on the piezometric and potentiometric maps in Appendix C of WSRC (1994).

^b Transects are identified on the piezometric and potentiometric maps in Appendix I (Volume III) of this report.

Table D-13. CUSUM Analysis of Trichloroethylene Concentrations in Selected Monitoring Wells

<u>Well</u>	<u>3Q96 Trend</u>	<u>Long-Term Trend</u>
M-Area Aquifer Zone		
MSB 4D	Downward	Upward
MSB 9C	Downward	Downward
MSB 16C	Upward	Upward
MSB 19C	No Data	Downward
MSB 20C	No Trend	No Trend
MSB 26	Downward	Downward
MSB 34C	Upward	Upward
MSB 39D	No Trend	No Trend
Upper Lost Lake Aquifer Zone		
MSB 12B	Upward	Upward
MSB 15A	No Data	Downward
MSB 16A	Upward	Upward
MSB 18A	No Trend	No Trend
MSB 18B	Downward	Downward
MSB 27B	Upward	Upward
MSB 33C	Downward	Downward
MSB 34B	Downward	Downward
MSB 36C	No Data	Upward
MSB 39C	Downward	Downward
Lower Lost Lake Aquifer Zone		
MSB 9A	No Data	No Trend
MSB 12A	No Trend	No Trend
MSB 13A	Upward	Upward
MSB 19B	Downward	Downward
MSB 20A	No Trend	No Trend
MSB 21A	No Data	Upward
MSB 25A	Downward	Downward
MSB 33B	No Trend	Upward
MSB 37C	No Trend	Upward
MSB 39B	Upward	Upward
Middle Sand Aquifer Zone of CBCU		
ASB 8B	No Trend	No Trend
MSB 19A	Downward	Downward
MSB 33A	No Trend	No Trend
MSB 34A	No Trend	No Trend
MSB 37B	Downward	Downward
MSB 41B	Upward	Upward

Table D-14. CUSUM Analysis of Trichloroethylene Concentrations in Recovery Wells

<u>Well</u>	<u>3Q96 Trend</u>	<u>Long-Term Trend</u>
RWM 1	Downward	Downward
RWM 2	Downward	Downward
RWM 3	Downward	Downward
RWM 4	No Trend	No Trend
RWM 5	Downward	Downward
RWM 6	No Trend	No Trend
RWM 7	Upward	Upward
RWM 8	Upward	Upward
RWM 9	Downward	Downward
RWM 10	Upward	Upward
RWM 11	Downward	Downward
RWM 12	No Trend	No Trend
RWM 13B	No Trend	No Trend
RWM 13C	No Trend	No Trend
RWM 14B	No Trend	No Trend
RWM 14C	No Trend	No Trend
RWM 15	No Trend	No Trend

Table D-15. Summary of Operation of the M-1 Air Stripper, 1996

Operation Parameter	January	February	March	April	May	June	July
<i>Average Operating Time (hours)</i>	741.0	679.0	497.0	705.0	660.0	667.0	735.0
<i>Downtime (hours)</i>	3.0	17.0	247.0	15.0	84.0	53.0	9.0
<i>Throughput (gal)</i>							
<i>Average Water Feed Rate (gpm)</i>							
<i>Total Solvent Removed (lbs)</i>	1,426	1,156	684	886	1,262	101	843
<i>Average Concentration (µg/L)</i>							
<i>Stripper Influent</i>							
Tetrachloroethylene							
Trichloroethylene							
Total	4,076	4,058	3,326	2,768	4,020	3,394	2,535
<i>Stripper Effluent*</i>							
Tetrachloroethylene							
Trichloroethylene							
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00

* TCE is undetected with new laboratory equipment having a detection limit of 60 ppt.
June, November and December concentrations and masses are estimated from previous months.

Table D-15. Summary of Operation of the M-1 Air Stripper, 1996 (cont.)

Operation Parameter	August	September	October	November	December	Yearly Total/Average
<i>Average Operating Time (hours)</i>	742.0	710.0	739.0	713.0	729.0	8317.0
<i>Downtime (hours)</i>	2.0	10.0	5.0	7.0	15.0	467.0
<i>Throughput (gal)</i>						0
<i>Average Water Feed Rate (gpm)</i>						#DIV/0!
<i>Total Solvent Removed (lbs)</i>	997	1,253	1,570	1,442	1,469	13,089
<i>Average Concentration (µg/L)</i>						
<i>Stripper Influent</i>						
Tetrachloroethylene						0
Trichloroethylene						0
Total	3,226	3,780	4,209	3,995	3,995	3,615
<i>Stripper Effluent*</i>						
Tetrachloroethylene						0.00
Trichloroethylene						0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Table D-16. Summary of Operation of the A-1 Air Stripper, 1996

Operation Parameter	January	February	March	April	May	June	July
<i>Average Operating Time (hours)</i>	484.0	91.0	84.0	533.0	275.0	0.0	0.0
<i>Downtime (hours)</i>	260.0	605.0	660.0	187.0	469.0	720.0	744.0
<i>Throughput (gal)</i>							
<i>Average Water Feed Rate (gpm)</i>							
<i>Total Solvent Removed (lbs)</i>	28	6	5	28	13	0	0
<i>Average Concentration (µg/L)</i>							
<i>Stripper Influent</i>							
Tetrachloroethylene							
Trichloroethylene							
Total	2,247	2,610	2,428	2,012	1,725	0	0
<i>Stripper Effluent*</i>							
Tetrachloroethylene							
Trichloroethylene							
Total	1.00	1.00	1.00	1.00	1.00	0.00	0.00

* Less than detection limit, estimated.

Taken out of service in May 1996.

Table D-16. Summary of Operation of the A-1 Air Stripper, 1996 (cont.)

Operation Parameter	August	September	October	November	December	Yearly Total/Average
Average Operating Time (hours)	0.0	0.0	0.0	0.0	0.0	1467.0
Downtime (hours)	744.0	720.0	744.0	720.0	744.0	7,317.0
Throughput (gal)						0
Average Water Feed Rate (gpm)						#DIV/0!
Total Solvent Removed (lbs)	0	0	0	0	0	80
Average Concentration (µg/L)						
Stripper Influent						
Tetrachloroethylene						0
Trichloroethylene						0
Total	0	0	0	0	0	919
Stripper Effluent*						
Tetrachloroethylene						0.00
Trichloroethylene						0.00
Total	0.00	0.00	0.00	0.00	0.00	0.42

Table D-17. Summary of Operation of the A-2 Air Stripper, 1996

Operation Parameter	January	February	March	April	May	June	July
<i>Average Operating Time (hours)</i>	0	0	4	0	42	73	705
<i>Downtime (hours)</i>	744	696	740	720	702	647	39
<i>Throughput (gal)</i>							
<i>Average Water Feed Rate (gpm)</i>							
<i>Total Solvent Removed (lbs)</i>	0	0	1	0	14	28	270
<i>Average Concentration (µg/L)</i>							
<i>Stripper Influent</i>							
Tetrachloroethylene							
Trichloroethylene							
Total			3,156	0	3,156	3,156	3,156
<i>Stripper Effluent</i>							
Tetrachloroethylene							
Trichloroethylene							
Total			2.00		2.00	2.00	2.00

* TCE effluent is 1.7 ppb as determined with new laboratory equipment having a detection limit of 60 ppt. Concentrations are estimated based on samples taken in March and November.

Table D-17. Summary of Operation of the A-2 Air Stripper, 1996 (cont.)

Operation Parameter	August	September	October	November	December	Yearly Total/Average
<i>Average Operating Time (hours)</i>	410.0	50.0	304.0	326.0	655.0	2569.0
<i>Downtime (hours)</i>	334.0	670.0	440.0	394.0	89.0	6,215.0
<i>Throughput (gal)</i>						0
<i>Average Water Feed Rate (gpm)</i>						#DIV/0!
<i>Total Solvent Removed (lbs)</i>	151	14	106	128	306	1,018
<i>Average Concentration (µg/L)</i>						
<i>Stripper Influent</i>						
Tetrachloroethylene						0
Trichloroethylene						0
Total	3,156	3,156	3,156	3,156	3,156	2,840
<i>Stripper Effluent</i>						
Tetrachloroethylene						0.00
Trichloroethylene						0.00
Total	2.00	2.00	2.00	2.00	2.00	2.00

Table D-18. Summary of Operation of the SVEU Vadose Zone Unit 782-3M, 1996

Operation Parameter	January	February	March	April	May
<i>Operating Time (hours)</i>	203.0	399.0	308.0	576.0	568.0
<i>Downtime (hours)</i>	541.0	297.0	436.0	144.0	176.0
<i>Total Solvent Removed (lbs)</i>	268.0	1,122.0	1,879.0	2,914.0	1,766.0
<i>Average Vapor Flow Rate (scfm)</i>	365.0	280.0	252.0	245.0	221.0
<i>Average Concentration (ppmv)</i> <i>Influent</i>	147.0	407.0	978.0	824.0	574.0

Table D-18. Summary of Operation of the SVEU Vadose Zone Unit 782-3M, 1996 (cont.)

Operation Parameter	June	July	August	September	October
Operating Time (hours)	497.0	304.0	681.0	720.0	4.0
Downtime (hours)	223.0	440.0	63.0	0.0	740.0
Total Solvent Removed (lbs)	1,231.0	713.0	1,511.0	2,095.0	12.0
Average Vapor Flow Rate (scfm)	217.0	713.0	225.0	226.0	226.0
Average Concentration (ppmv)					
Influent	470.0	425.0	400.0	523.0	523.0

Table D-18. Summary of Operation of the SVEU Vadose Zone Unit 782-3M, 1996 (cont.)

Operation Parameter	November	December	Yearly Total/Average
<i>Operating Time (hours)</i>	184.0	0.0	4,444.0
<i>Downtime (hours)</i>	536.0	744.0	4,340.0
<i>Total Solvent Removed (lbs)</i>	269.0	0.0	13,780.0
<i>Average Vapor Flow Rate (scfm)</i>	245.0	0.0	267.9
<i>Average Concentration (ppmv) Influent</i>	241.0	0.0	459.33

Table D-19. Summary of Operation of the SVEU Vadose Zone Unit 782-4M, 1996

Operation Parameter	January	February	March	April	May
<i>Operating Time (hours)</i>	507.0	490.0	368.0	454.0	317.0
<i>Downtime (hours)</i>	237.0	206.0	376.0	266.0	427.0
<i>Total Solvent Removed (lbs)</i>	2,295.0	962.0	1,465.0	1,250.0	692.0
<i>Average Vapor Flow Rate (scfm)</i>	258.0	324.0	360.0	328.0	244.0
<i>Average Concentration (ppmv)</i> <i>Influent</i>	852.0	246.0	457.0	381.0	368.0

Table D-19. Summary of Operation of the SVEU Vadose Zone Unit 782-4M, 1996 (cont.)

Operation Parameter	June	July	August	September	October
<i>Operating Time (hours)</i>	63.0	283.0	582.0	363.0	37.0
<i>Downtime (hours)</i>	657.0	461.0	162.0	357.0	707.0
<i>Total Solvent Removed (lbs)</i>	42.0	594.0	2,301.0	1,559.0	154.0
<i>Average Vapor Flow Rate (scfm)</i>	298.0	320.0	437.0	450.0	380.0
<i>Average Concentration (ppmv) Influent</i>	92.0	244.0	371.0	391.0	452.0

Table D-19. Summary of Operation of the SVEU Vadose Zone Unit 782-4M, 1996 (cont.)

Operation Parameter	November	December	Yearly Total/Average
<i>Operating Time (hours)</i>	310.0	216.0	3,990.0
<i>Downtime (hours)</i>	410.0	528.0	4,794.0
<i>Total Solvent Removed (lbs)</i>	1,175.0	392.0	12,881.0
<i>Average Vapor Flow Rate (scfm)</i>	296.0	378.0	339.4
<i>Average Concentration (ppmv) Influent</i>	521.2	184.1	379.95

Table D-20. Summary of Operation of the SVEU Vadose Zone Unit 782-5M, 1996

Operation Parameter	January	February	March	April	May
<i>Operating Time (hours)</i>	551.0	280.0	713.0	211.0	716.0
<i>Downtime (hours)</i>	193.0	416.0	31.0	509.0	28.0
<i>Total Solvent Removed (lbs)</i>	1,736.0	646.0	1,548.0	477.0	1,282.0
<i>Average Vapor Flow Rate (scfm)</i>	640.0	565.0	567.0	580.0	580.0
<i>Average Concentration (ppmv)</i>					
<i>Influent</i>	208.0	171.0	164.0	167.0	134.0

Table D-20. Summary of Operation of the SVEU Vadose Zone Unit 782-5M, 1996 (cont.)

Operation Parameter	June	July	August	September	October
<i>Operating Time (hours)</i>	512.0	173.0	173.0	36.0	37.0
<i>Downtime (hours)</i>	208.0	571.0	571.0	684.0	707.0
<i>Total Solvent Removed (lbs)</i>	1,966.0	664.0	664.0	150.0	154.0
<i>Average Vapor Flow Rate (scfm)</i>	643.0	643.0	643.0	643.0	643.0
<i>Average Concentration (ppmv)</i>					
<i>Influent</i>	261.0	261.0	261.0	283.0	283.0

Table D-20. Summary of Operation of the SVEU Vadose Zone Unit 782-5M, 1996 (cont.)

Operation Parameter	November	December	Yearly Total/Average
<i>Operating Time (hours)</i>	0.0	0.0	3,402.0
<i>Downtime (hours)</i>	720.0	744.0	5,382.0
<i>Total Solvent Removed (lbs)</i>	0.0	0.0	9,287.0
<i>Average Vapor Flow Rate (scfm)</i>	0.0	0.0	512.3
<i>Average Concentration (ppmv) Influent</i>	0.0	0.0	182.75

Table D-21. Summary of Operation of the SVEU Vadose Zone Unit 782-6M, 1996

Operation Parameter	January	February	March	April	May
<i>Operating Time (hours)</i>	494.0	696.0	744.0	482.0	445.0
<i>Downtime (hours)</i>	250.0	0.0	0.0	238.0	299.0
<i>Total Solvent Removed (lbs)</i>	1,578.0	2,896.0	1,905.0	1,180.0	1,598.0
<i>Average Vapor Flow Rate (scfm)</i>	315.0	308.0	301.0	265.0	227.0
<i>Average Concentration (ppmv)</i>					
<i>Influent</i>	413.0	552.0	349.0	384.0	654.0

Table D-21. Summary of Operation of the SVEU Vadose Zone Unit 782-6M, 1996 (cont.)

Operation Parameter	June	July	August	September	October
<i>Operating Time (hours)</i>	91.0	572.0	547.0	564.0	97.0
<i>Downtime (hours)</i>	629.0	172.0	197.0	156.0	647.0
<i>Total Solvent Removed (lbs)</i>	327.0	1,588.0	1,455.0	1,255.0	257.0
<i>Average Vapor Flow Rate (scfm)</i>	227.0	237.0	232.0	229.0	245.0
<i>Average Concentration (ppmv)</i>					
<i>Influent</i>	654.0	487.0	477.0	408.0	460.0

Table D-21. Summary of Operation of the SVEU Vadose Zone Unit 782-6M, 1996 (cont.)

Operation Parameter	November	December	Yearly Total/Average
<i>Operating Time (hours)</i>	288.0	301.0	5,321.0
<i>Downtime (hours)</i>	432.0	443.0	3,463.0
<i>Total Solvent Removed (lbs)</i>	654.0	563.0	15,256.0
<i>Average Vapor Flow Rate (scfm)</i>	245.0	246.0	256.4
<i>Average Concentration (ppmv) Influent</i>	412.0	321.0	464.25

Table D-22. Summary of Operation of the SVEU Vadose Zone Unit 782-7M, 1996

Operation Parameter	January	February	March	April	May	June	July
<i>Operating Time (hours)</i>	705.0	467.0	457.0	549.0	744.0	695.0	459.0
<i>Downtime (hours)</i>	39.0	229.0	287.0	171.0	0.0	25.0	285.0
<i>Total Solvent Removed (lbs)</i>	705.0	546.0	442.0	227.0	497.0	493.0	340.0
<i>Average Vapor Flow Rate (scfm)</i>	154.0	181.0	197.0	196.0	172.0	168.0	197.0
<i>Average Concentration (ppmv)</i>							
<i>Influent</i>	262.0	262.0	201.0	86.0	158.0	171.0	157.0

Table D-22. Summary of Operation of the SVEU Vadose Zone Unit 782-7M, 1996 (cont.)

Operation Parameter	August	September	October	November	December	Yearly Total/Average
<i>Operating Time (hours)</i>	675.0	413.0	0.0	0.0	0.0	5,164.0
<i>Downtime (hours)</i>	69.0	307.0	744.0	720.0	744.0	3,620.0
<i>Total Solvent Removed (lbs)</i>	489.0	449.0	0.0	0.0	0.0	4,188.0
<i>Average Vapor Flow Rate (scfm)</i>	227.0	260.0	0.0	0.0	0.0	146.0
<i>Average Concentration (ppmv)</i>						
<i>Influent</i>	134.0	175.0	0.0	0.0	0.0	133.83

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996

Well Number	January	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	February	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	March	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
	Monthly Volume (gal)				Monthly Volume (gal)				Monthly Volume (gal)			
RWM 1	778,138	109,955,923	18	741	720,930	110,676,853	18	679	537,294	111,214,147	19	481
RWM 2	529,862	97,153,533	59	150	0	97,153,533	0	0	0	97,153,533	0	0
RWM 3	3,049,095	272,721,340	69	741	2,344,508	275,065,848	58	679	1,583,060	276,648,908	55	481
RWM 4	2,184,068	162,819,883	49	741	2,029,553	164,849,436	50	679	1,417,487	166,266,923	49	481
RWM 5	2,156,464	162,881,815	49	741	1,688,346	164,570,161	49	578	1,412,253	165,982,414	49	482
RWM 6	2,376,852	233,490,942	69	576	0	233,490,942	0	0	0	233,490,942	0	0
RWM 7	1,540,717	149,939,449	35	741	1,530,614	151,470,063	44	577	1,222,775	152,692,838	41	467
RWM 8	2,022,902	156,461,843	45	741	1,883,224	158,345,067	46	679	1,277,212	159,622,279	46	467
RWM 9	2,211,672	172,938,139	50	741	2,050,989	174,989,128	50	679	1,363,206	176,352,334	46	497
RWM 10	2,488,883	186,907,960	56	741	3,442,989	190,350,949	85	679	2,145,769	192,496,718	78	458
RWM 11	3,255,945	287,628,965	73	741	3,057,583	290,686,548	75	679	1,575,662	292,262,210	53	497
RWM 12	1,504,700	93,692,628	52	484	295,635	93,988,263	54	91	239,210	94,227,473	47	84

Note: Numbers in bold are estimated due to failed totalizers. Estimates are based on normal flow rates and operating hours of associated wells and stripper.

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	January	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	February	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	March	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
	Monthly Volume (gal)				Monthly Volume (gal)				Monthly Volume (gal)			
RWM13B	0	0	0	0	0	0	0	0	8,730	8,730	36	4
RWM13C	0	0	0	0	0	0	0	0	14,550	14,550	61	4
RWM14B	0	0	0	0	0	0	0	0	10,185	10,185	42	4
RWM14C	0	0	0	0	0	0	0	0	9,215	9,215	38	4
RWM15B	0	0	0	0	0	0	0	0	5,820	5,820	24	4

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	April				Well Operation (hours)	May				Well Operation (hours)	June			
	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)			Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)			Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
RWM 1	757,614	111,971,761	18		703	626,527	112,598,288	19		563	458,192	113,056,480	20	386
RWM 2	0	97,153,533	0		0	0	97,153,533	0		0	0	97,153,533	0	0
RWM 3	2,342,340	278,991,248	55		704	2,075,424	281,066,672	52		659	1,671,676	282,738,348	42	662
RWM 4	2,057,912	168,324,835	49		705	1,898,887	170,223,722	48		658	1,937,729	172,161,451	48	666
RWM 5	2,042,394	168,024,808	48		705	1,881,410	169,906,218	48		657	1,934,881	171,841,099	48	667
RWM 6	1,338,237	234,829,179	68		327	2,709,625	237,538,804	68		660	2,921,289	240,460,093	73	667
RWM 7	1,833,318	154,526,156	44		698	1,421,429	155,947,585	40		587	0	155,947,585	0	0
RWM 8	1,912,610	161,534,889	45		704	1,766,200	163,301,089	45		659	1,815,075	165,116,164	45	667
RWM 9	2,094,661	178,446,995	50		705	1,929,687	180,376,682	49		658	1,982,575	182,359,257	50	667
RWM 10	2,611,167	195,107,885	62		703	2,713,100	197,820,985	69		658	2,465,259	200,286,244	63	657
RWM 11	3,543,640	295,805,850	84		705	2,839,600	298,645,450	72		658	2,941,875	301,587,325	74	667
RWM 12	1,598,348	95,825,821	50		533	916,704	96,742,525	56		275	0	96,742,525	0	0

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	April				May				June			
	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
RWM13B	0	8,730	0	0	96,445	105,175	41	39	189,934	295,109	43	73
RWM13C	0	14,550	0	0	160,741	175,291	69	39	316,557	491,848	72	73
RWM14B	0	10,185	0	0	112,519	122,704	48	39	221,590	344,294	51	73
RWM14C	0	9,215	0	0	101,803	111,018	44	39	200,486	311,504	46	73
RWM15B	0	5,820	0	0	64,296	70,116	27	39	126,623	196,739	29	73

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	July	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	August	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	September	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
	Monthly Volume (gal)				Monthly Volume (gal)				Monthly Volume (gal)			
RWM 1	796,075	113,852,555	18	732	765,703	114,618,258	17	739	780,035	115,398,293	19	675
RWM 2	0	97,153,533	0	0	0	97,153,533	0	0	925,945	98,079,478	30	506
RWM 3	2,391,000	285,129,348	54	735	2,357,854	287,487,202	53	739	1,296,274	288,783,476	31	702
RWM 4	1,221,447	173,382,898	28	733	2,159,417	175,542,315	48	743	2,014,482	177,556,797	48	704
RWM 5	1,852,209	173,693,308	48	642	2,422,578	176,115,886	48	834	2,012,356	178,128,242	48	704
RWM 6	3,189,271	243,649,364	73	731	3,248,749	246,898,113	73	742	2,956,736	249,854,849	70	705
RWM 7	0	155,947,585	0	0	0	155,947,585	0	0	838,045	156,785,630	39	359
RWM 8	1,986,635	167,102,799	45	733	289,394	167,392,193	46	104	1,205,634	168,597,827	44	459
RWM 9	2,142,159	184,501,416	49	727	2,201,007	186,702,423	49	742	2,062,298	188,764,721	49	706
RWM 10	2,593,909	202,880,153	59	736	2,724,147	205,604,300	61	742	2,460,821	208,065,121	58	705
RWM 11	3,193,627	304,780,952	73	731	3,268,339	308,049,291	73	742	3,032,579	311,081,870	72	706
RWM 12	0	96,742,525	0	0	0	96,742,525	0	0	0	96,742,525	0	0

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	July	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	August	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	September	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
	Monthly Volume (gal)				Monthly Volume (gal)				Monthly Volume (gal)			
RWM13B	1,684,857	1,979,966	41	691	969,338	2,949,304	41	391	86,100	3,035,404	41	35
RWM13C	3,027,415	3,519,263	75	675	1,578,799	5,098,062	69	381	186,576	5,284,638	69	45
RWM14B	1,926,151	2,270,445	47	678	1,163,950	3,434,395	50	391	102,900	3,537,295	49	35
RWM14C	1,917,488	2,228,992	46	694	1,092,738	3,321,730	47	390	90,407	3,412,137	43	35
RWM15B	1,740,608	1,937,347	45	645	1,340,309	3,277,656	57	389	57,693	3,335,349	27	35

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	October				November				December			
	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	Monthly Volume (gal)	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
RWM 1	846020	116,244,313	20	713	804,413	117,048,726	18	738	836,435	117,885,161	19	728
RWM 2	1343653	99,423,131	30	739	1,293,388	100,716,519	30	714	1,319,099	102,035,618	30	728
RWM 3	2,131,066	290,914,542	48	741	2,075,351	292,989,893	48	714	2,534,697	295,524,590	59	722
RWM 4	2,104,769	179,661,566	47	742	1,951,846	181,613,412	46	712	5,397,341	187,010,753	123	729
RWM 5	2,085,889	180,214,131	47	739	2,017,475	182,231,606	47	714	2,059,974	184,291,580	47	729
RWM 6	3,975,038	253,829,887	89	742	1,850,104	255,679,991	43	712	2,924,618	258,604,609	67	728
RWM 7	1,776,403	158,562,033	40	742	1,767,275	160,329,308	41	712	1,738,980	162,068,288	40	724
RWM 8	1,950,139	170,547,966	44	742	1,870,285	172,418,251	44	712	1,870,080	174,288,331	43	729
RWM 9	2,133,850	190,898,571	48	734	2,061,737	192,960,308	48	713	2,107,263	195,067,571	48	728
RWM 10	2,479,114	210,544,235	56	742	2,365,009	212,909,244	55	711	2,433,941	215,343,185	56	729
RWM 11	3,126,650	314,208,520	70	740	2,995,801	317,204,321	70	713	3,108,739	320,313,060	71	728
RWM 12	0	96,742,525	0	0	410,202	97,152,727	48	141	1,855,384	99,008,111	50	620

Table D-23. Summary of Volume Pumped from Recovery Wells, 1996 (cont.)

Well Number	October	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	November	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)	December	Cumulative Volume since 4/85 (gal)	Average Flow Rate (gpm)	Well Operation (hours)
	Monthly Volume (gal)				Monthly Volume (gal)				Monthly Volume (gal)			
RWM13B	685,993	3,721,397	41	277	692,096	4,413,493	42	277	1,614,426	6,027,919	41	649
RWM13C	1,079,187	6,363,825	69	261	1,209,435	7,573,260	69	293	2,667,483	10,240,743	69	649
RWM14B	814,380	4,351,675	49	277	793,800	5,145,475	49	270	1,874,863	7,020,338	48	656
RWM14C	719,870	4,132,007	43	277	715,085	4,847,092	42	282	1,676,800	6,523,892	44	642
RWM15B	437,017	3,772,366	26	277	429,607	4,201,973	26	274	1,000,955	5,202,928	26	647

Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations in Recovery Wells, 1996

Well Number	January Solvent Concentrations			February Solvent Concentrations			March Solvent Concentrations			April Solvent Concentrations		
	Tetrachloro-ethylene ($\mu\text{g/L}$)	Trichloro-ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro-ethylene ($\mu\text{g/L}$)	Trichloro-ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro-ethylene ($\mu\text{g/L}$)	Trichloro-ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro-ethylene ($\mu\text{g/L}$)	Trichloro-ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)
RWM 1	27,500	11,700	39,200	18,400	4,960	23,360	27,100	9,300	36,400	25,350	10,150	35,500
RWM 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,760	13,400	23,160
RWM 3	6,220	1,830	8,050	6,610	1,940	8,550	7,060	2,130	9,190	5,550	2,000	7,550
RWM 4	6,400	644	7,044	6,300	631	6,931	6,680	607	7,287	5,130	575	5,705
RWM 5	1,290	669	1,959	574	589	1,163	860	560	1,420	630	640	1,270
RWM 6	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,800	13,000	18,800
RWM 7	7,340	6,240	13,580	7,040	6,070	13,110	8,170	6,840	15,010	6,530	7,280	13,810
RWM 8	994	461	1,455	1,030	491	1,521	991	468	1,459	835	480	1,315
RWM 9	34	<10	<44	34	<2	<36	37	<4	<41	28	<10	<38
RWM 10	4,910	6,350	11,260	5,050	5,800	10,850	5,260	6,030	11,290	4,180	6,650	10,830
RWM 11	1,490	<200	<1,690	1,480	94	1,574	1,490	98	1,588	960	<200	<1,160
RWM 12	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,850	<50	<1,900

Note: Numbers in bold are estimated. Estimates are based on sampling performed during startup and optimization testing in November.

**Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations
in Recovery Wells, 1996 (cont.)**

Well Number	January Solvent Concentrations			February Solvent Concentrations			March Solvent Concentrations			April Solvent Concentrations		
	Tetrachloro- ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro- ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro- ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro- ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)
RWM13B	NA	NA	NA	NA	NA	NA	3,100	56	3,156	0	0	0
RWM13C	NA	NA	NA	NA	NA	NA	3,100	56	3,156	0	0	0
RWM14B	NA	NA	NA	NA	NA	NA	3,100	56	3,156	0	0	0
RWM14C	NA	NA	NA	NA	NA	NA	3,100	56	3,156	0	0	0
RWM15B	NA	NA	NA	NA	NA	NA	3,100	56	3,156	0	0	0

Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations in Recovery Wells, 1996 (cont.)

Well Number	May Solvent Concentrations			June Solvent Concentrations			July Solvent Concentrations			August Solvent Concentrations		
	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)
RWM 1	20,200	6,780	26,980	23,710	8,578	32,288	20,500	11,300	31,800	21,500	7,840	29,340
RWM 2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWM 3	6,650	2,200	8,850	7,050	<1,000	<8,050	3,250	1,330	4,580	4,500	1,720	6,220
RWM 4	6,740	680	7,420	6,880	425	7,305	4,660	569	5,229	4,670	536	5,206
RWM 5	945	845	1,790	1,370	455	1,825	606	383	989	961	526	1,487
RWM 6	4,148	9,668	13,815	3,900	3,700	7,600	2,600	4,310	6,910	3,070	3,380	6,450
RWM 7	7,890	6,850	14,740	NA	NA	NA	NA	NA	NA	NA	NA	NA
RWM 8	1,100	552	1,652	1,040	304	1,344	439	313	752	NA	NA	NA
RWM 9	39	<2	<41	43	<10	<53	30	<2	<32	41	<2	<43
RWM 10	5,580	7,110	12,690	6,350	6,980	13,330	4,100	7,520	11,620	4,760	5,810	10,570
RWM 11	1,580	150	1,730	1,580	<200	<1,780	683	<200	<883	1,290	<200	<1,490
RWM 12	2,120	<50	<2,170	NA	NA	NA	NA	NA	NA	NA	NA	NA

**Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations
in Recovery Wells, 1996 (cont.)**

Well Number	May Solvent Concentrations			June Solvent Concentrations			July Solvent Concentrations			August Solvent Concentrations		
	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)
RWM13B	3,100	56	3,156	4,930	23	4,953	2,850	<500	<3,350	3,580	<100	<3,680
RWM13C	3,100	56	3,156	3,810	23	3,833	2,430	0	2,430	3,960	0	3,960
RWM14B	3,100	56	3,156	1,330	31	1,361	1,490	0	1,490	1,130	0	1,130
RWM14C	3,100	56	3,156	6,300	38	6,338	5,920	0	5,920	4,520	0	4,520
RWM15B	3,100	56	3,156	96	<10	<106	63	0	63	59	0	59

Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations in Recovery Wells, 1996 (cont.)

Well Number	September Solvent Concentrations			October Solvent Concentrations			November Solvent Concentrations			December Solvent Concentrations		
	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)	Tetrachloro ethylene ($\mu\text{g/L}$)	Trichloro- ethylene ($\mu\text{g/L}$)	Total ($\mu\text{g/L}$)
RWM 1	26,600	9,480	36,080	21,000	8,500	29,500	20,600	10,200	30,800	25,900	7,900	33,800
RWM 2	NA	NA	NA	16,900	16,800	33,700	14,400	16,600	31,000	14,900	10,600	25,500
RWM 3	5,790	1,910	7,700	5,550	1,950	7,500	4,650	2,200	6,850	5,630	1,880	7,510
RWM 4	5,700	564	6,264	6,800	500	7,300	5,750	780	6,530	6,530	550	7,080
RWM 5	1,210	534	1,744	1,220	650	1,870	975	635	1,610	1,250	618	1,868
RWM 6	3,280	3,550	6,830	4,050	5,930	9,980	3,450	5,300	8,750	3,680	4,320	8,000
RWM 7	NA	NA	NA	3,730	7,200	10,930	6,360	7,880	14,240	7,580	7,350	14,930
RWM 8	NA	NA	NA	1,018	530	1,548	721	471	1,192	1,090	508	1,598
RWM 9	53	<2	<55	71	NA	71	62	NA	62	82	NA	82
RWM 10	5,100	5,940	11,040	5,500	9,100	14,600	4,890	7,660	12,550	6,390	7,830	14,220
RWM 11	72	<20	<92	1,420	NA	1,420	1,110	NA	1,110	1,290	85	1,375
RWM 12	NA	NA	NA	NA	NA	NA	3,320	NA	3,320	2,490	12	2,502

Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations in Recovery Wells, 1996 (cont.)

Well Number	September Solvent Concentrations			October Solvent Concentrations			November Solvent Concentrations			December Solvent Concentrations		
	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)
RWM13B	NA	NA	NA	3,080	NA	3,080	3,590	NA	3,590	2,490	27	2,517
RWM13C	NA	NA	NA	3,300	NA	3,300	3,990	NA	3,990	4,860	47	4,907
RWM14B	NA	NA	NA	1,570	NA	1,570	1,650	NA	1,650	1,670	18	1,688
RWM14C	NA	NA	NA	4,960	NA	4,960	6,210	NA	6,210	7,360	58	7,418
RWM15B	NA	NA	NA	54	NA	54	0	NA	0	0	0	0

Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations in Recovery Wells, 1996 (cont.)

Well Number	Yearly Average Solvent Concentrations		
	Tetrachloro- ethylene (µg/L)	Trichloro- ethylene (µg/L)	Total (µg/L)
RWM 1	278,360	106,688	385,048
RWM 2	55,960	57,400	113,360
RWM 3	68,510	22,090	90,600
RWM 4	72,240	7,061	79,301
RWM 5	11,891	7,104	18,995
RWM 6	33,978	53,158	87,135
RWM 7	54,640	55,710	110,350
RWM 8	9,258	4,578	13,836
RWM 9	553	44	597
RWM 10	62,070	82,780	144,850
RWM 11	14,445	1,447	15,892
RWM 12	9,780	112	9,892

**Table D-24. Summary of Average Tetrachloroethylene and Trichloroethylene Concentrations
in Recovery Wells, 1996 (cont.)**

Well Number	Yearly Average Solvent Concentrations		
	Tetrachloro	Trichloro-	Total
	ethylene ($\mu\text{g/L}$)	ethylene ($\mu\text{g/L}$)	($\mu\text{g/L}$)
RWM13B	26,720	763	27,483
RWM13C	28,550	182	28,732
RWM14B	15,040	161	15,201
RWM14C	41,470	208	41,678
RWM15B	6,472	122	6,594