**1Q/2Q00 M-Area and Metallurgical Laboratory Hazardous Waste
Management Facilities Groundwater Monitoring and
Corrective-Action Report - First and Second Quarters 2000 -
Volumes I, II, and II**

by

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1Q/2Q00 M-AREA AND METALLURGICAL LABORATORY HAZARDOUS WASTE MANAGEMENT FACILITIES GROUNDWATER MONITORING AND CORRECTIVE-ACTION REPORT (U)

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Savannah River Site
Aiken, SC 29808

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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 first and second quarters of 2000. 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 was conducted to determine compliance with the Groundwater Protection Standard (GWPS) and demonstrate the effectiveness of the corrective action program. Samples were collected and analyzed during first quarter of 2000 at M-Area HWMF and Met Lab point-of-compliance (POC), background, and plume definition wells. M-Area HWMF recovery wells were sampled monthly. Semiannual monitoring is for pH, specific conductance, temperature, and GWPS constituents (except polychlorinated biphenyls [PCBs]); only POC wells MSB 1D, 2D, 4D, and 59D are monitored for PCBs. The Monitoring Constituents and Appendix IX analyses are only conducted annually, during the third quarter of the calendar year.
- All 37 POC wells at the M-Area HWMF were sampled for semi-annual constituents listed in Appendix IIIB-A of the 1995 RCRA Renewal Permit. Approval was granted by SCDHEC (letter dated March 15, 1999; Frasier to Odum) to refine the list of inorganic Monitoring Constituents listed in Section II, Appendix IIIB-A of the permit (SCDHEC, 1995). The Monitoring Constituents SCDHEC approved for deletion from monitoring at the POC wells were: chromium, mercury, uranium, fluoride, cobalt (with the exception of the Annual Appendix IX analysis at 20% of POC wells), chloride, copper, zinc, manganese, sulfate, and total phosphates.

Samples from POC wells in the M-Area Aquifer Zone exceeded the Appendix IIIB-A Groundwater Protection Standard (GWPS) for tetrachloroethylene (PCE) (MSB 8A, 62D) and trichloroethylene (TCE) (MSB 62D). POC wells screened in the Upper and Lower Lost Lake Aquifer Zones also had TCE (MSB 6C, 7C, 8C) and PCE (MSB 7C, 8C, 63B) above the GWPS. One well in the Upper Lost Lake Aquifer Zone (MSB 8C) had 1,1-dichloroethylene above the standard, and one well in the Lower Lost Lake Aquifer Zone (MSB 63B) had chlorobenzene above the standard. (See the *Field and Analytical Results* subsection and Tables D-2 and D-10, Appendix D, Volume I.)

- All 6 background wells at the M-Area HWMF were sampled during first quarter 2000. In the M-Area Aquifer Zone, MSB 29A had gross alpha and total radium above the GWPS, and iron above the Monitoring Constituent Standard (MCS). MSB 43D, screened in the M-Area Aquifer Zone and partially in the Green Clay Confining Zone, exceeded the GWPS (Appendix A) for lead. (See the *Field and Analytical Results* subsection and Table D-4, Appendix D, Volume I.)
- PCE, or TCE exceeded the GWPS in one or more of the plume definition wells at the M-Area HWMF during first quarter 2000 as follows: MSB 31C, 88B (M-Area Aquifer Zone); ABP 8C, MCB 5C, 6C, 7C, MSB 47C, 76C, 79C (Upper Lost Lake Aquifer Zone); MSB 21B, 31B, 33B, 36B, 47B, 66C, 68C, 69C, 74B, 89B (Lower Lost Lake Aquifer Zone); AMB 17A, AMB 18A, MSB 10A, MSB 33A, MSB 66B (Middle Sand Aquifer Zone-Crouch Branch Confining Unit); and MSB 42TA, 47TA (Crouch Branch Aquifer Unit). Concentrations of PCE and TCE and their distributions are provided in isoconcentration maps for each aquifer zone monitored. (See the *Field and Analytical Results* subsection and Table D-4, Appendix D, Volume I.)
- Monthly sampling events were scheduled for each recovery well during the first half of 2000. The majority of recovery wells show a continued decreasing trend in TCE and PCE

concentrations. (See the *Field and Analytical 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. In the M-Area Aquifer Zone POC wells, no analyte exceeded the Appendix IIIG-A GWPS, and only sodium and sulfate exceeded the MCS (AMB 6, 8D, 9D) (Appendix A). In the Upper Lost Lake Aquifer Zone, lead (AMB 18C, 19C) exceeded the GWPS, and sodium and sulfate exceeded the MCS (AMB 19C), and in the Lower Lost Lake Aquifer Zone, only sodium exceeded the MCS (AMB 10B). However, one or more of the POC wells screened in the Middle Sand Aquifer Zone of the Crouch Branch Confining Unit had TCE (AMB 17A, 18A) and PCE (AMB 17A) above the GWPS, and total organic halogens (AMB 17A) above the MCS. (See the *Field and Analytical Results* subsection and Tables D-6 and D-10, Appendix D, Volume I.)
- All 8 background wells at the Met Lab HWMF were sampled during first quarter 2000. One of background wells in the M-Area Aquifer Zone (MSB 29D) contained gross alpha, total radium above the GWPS and iron above the MCS, and another (MSB 43D) exceeded the GWPS for lead. There were no analytes above standards in the background wells screened in the deeper aquifers. (See *Field and Analytical 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 2000. In the M-Area Aquifer Zone, no analytes exceeded the GWPS but iron, sodium or sulfate exceeded the MCS in one or more of the wells. There were no analytes above the GWPS or MCS in the wells in the Upper or Lower Lost Lake Aquifer Zones. (See the *Field and Analytical Results* subsection and Table D-8, Appendix D, Volume I.)
- Statistical analysis of concentration trends of TCE and PCE are not performed on first quarter 2000 data. This evaluation is provided in the annual reports.
- Groundwater flow rates and directions are not significantly different from previous reports. Precipitation was below the historical average.
- During the first half of 2000, the M-1 air stripper removed 5443.29 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 the first half of 2000, the A-2 air stripper removed 759.3 lbs. of solvent from the groundwater beneath the M-Area HWMF. (See the *Air Stripper Performance* subsection and Table D-16, Appendix D, Volume I.)
- During the first half of 2000, the SVEU Vadose Zone Unit 782-3M removed 7294.43 lbs. of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-17, Appendix D, Volume I.)
- During the first half of 2000, the SVEU Vadose Zone Unit 782-4M removed 9664 lbs. of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-18, Appendix D, Volume I.)
- During 1999, the SVEU Vadose Zone Units 782-5M and 782-8M are believed to have achieved their goals and have ceased operations. (See the *Vadose Zone Unit Performance* subsection and Table D-23, Appendix D, Volume I.)
- During the first half of 2000, the SVEU Vadose Zone Unit 782-6M removed 4996.93 lbs. of solvent. (See the *Vadose Zone Unit Performance* subsection and Table D-20, Appendix D, Volume I.)
- During the first half of 2000, the SVEU Vadose Zone Unit (formerly the IDU) 782-7M removed 1173.51 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). Requirements specified in Module III, Section B, M-Area Hazardous Waste Management Facility of the permit (SCDHEC, 1995) were approved for modification by SCDHEC (letter dated March 15, 1999; Frasier to Odum) in response to proposals for reducing monitoring requirements submitted to support SRS's permit modification request (Revision 12 to Volume III of the 1992 RCRA Part B Permit Renewal Application). SCDHEC reviewed the proposals, Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network (WSRC-TR-98-00044) and Refinement of the List of Constituents for Groundwater Monitoring at M-Area (WSRC-TR-00347) and outlined approval of specific portions of the SRS proposals in their response (letter dated March 15, 1999; Frasier to Odum).

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 wastewater 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** includes the solvent storage and handling areas, the M-Area process sewer line, the M-Area Settling Basin, and the A-014 outfall area. Contamination came from direct release to the subsurface of large quantities of solvent with migration through the vadose zone and into the saturated zone. A separate DNAPL phase is present in both the saturated and unsaturated zones resulting in high aqueous concentrations typically above 1000 ppb of TCE. The remediation strategy is to identify and remove DNAPL in the subsurface while continuing mass removal from the dissolved plume using the M-1 air stripper recovery system. The majority of the concentrated contaminant plume and the primary remediation efforts are in this sector.
- The **northern sector** is outside the influence of the M-1 air stripper recovery system. This sector, which includes the Savannah River Laboratory Seepage Basins, 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. Although no remediation system is currently in place within the western sector, a proposal has been developed to perform remediation of DNAPL in the vicinity of the closed M-Basin, which is believed to be the source of the Western Sector Plume. In addition a system of airlift wells is proposed for the distal portion of the plume. The proposed remedial actions were submitted to SCHDEC March 31, 2000

- The **southern sector** encompasses the contaminant plume south of the central sector outside the M-1 air stripper zone of influence. The contamination plume in the area is a result of advective transport processes from source zones in the Central Sector prior to installation of the M-1 pump and treat system. The plume is relatively large and has low concentration values. Groundwater flows south from this sector towards Upper Three Runs Creek. Remediation in the Lost Lake Aquifer Zone is currently addressed by a system of 12 vertical airlift recirculation wells at the distal portion of the plume. Other remediation technologies may be implemented as necessary.

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 required monitoring regimen. This monitoring regimen was modified by SCDHEC (letter dated March 15, 1999; Frasier to Odum) in response to proposals for reducing monitoring requirements submitted to support SRS's permit modification request (Revision 12 to Volume III of the 1992 RCRA Part B Permit Renewal Application). SCDHEC reviewed the proposals, Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network (WSRC-TR-98-00044) and Refinement of the List of Constituents for Groundwater Monitoring at M-Area (WSRC-TR-00347) and outlined approval of specific portions of the SRS proposals in their response (letter dated March 15, 1999; Frasier to Odum). 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, and 59D are monitored for PCBs. MSB 57D, 58D and 60D previously received monitoring for PCBs, but were approved for deletion from the groundwater monitoring well network (letter dated March 15, 1999; Frasier to Odum).
- 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)
- Approval was granted by SCDHEC (letter dated March 15, 1999; Frasier to Odum) to refine the list of inorganic Monitoring Constituents listed in Section II, Appendix IIIB-A of the permit (SCDHEC, 1995). The Monitoring Constituents SCDHEC approved for deletion from monitoring at the POC wells were: chromium, mercury, uranium, fluoride, cobalt (with the exception of the Annual Appendix IX analysis at 20% of POC wells), chloride, copper, zinc, manganese, sulfate, and total phosphates.

Analytical results for the hazardous constituents listed in Section I, Appendix IIIB-A of the permit (SCDHEC, 1995) are compared to the GWPS as defined in Appendix IIIB-A of the permit (SCDHEC, 1995). The Monitoring Constituents listed in Section II, Appendix IIIB-A are compared to the Monitoring Constituents Standard (MCS), which is derived from the former GWPS as defined in WSRC (1994), M-Area HWMF background concentrations as defined in the 1987 Part B permit (WSRC, 1987), or drinking water standards (EPA, 1993a, 1993b). The GWPS and the MCS used for comparison are provided in Appendix A, Volume I. M-Area HWMF groundwater 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).

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

Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. Currently, the M-Area HWMF POC well network is composed of 37 wells: MSB 1B, 1C, 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, 59D, 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).
- Wells MSB 1CC, 57D, 58D, and 60D were proposed for removal from the groundwater monitoring network in a permit modification request submitted to SCDHEC (Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network dated June, 1998) to reduce the sampling requirements for the M-Area HWMF. SCDHEC granted approval to remove these wells from the groundwater monitoring program in response to the modification request (letter of March 15, 1999; Frasier to Odum).

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 first quarter of each year of at least 40 percent of the POC wells for Appendix IX constituents (SCDHEC, 1994)

Analytical results for hazardous constituents are compared to the GWPS as defined in Section I, Appendix IIIG-A of the permit (SCDHEC, 1995). Monitoring Constituents as defined in Section II, Appendix IIIG-A of the permit (SCDHEC, 1995) are compared to a Monitoring Constituent Standard which is derived from the former GWPS as defined in WSRC (1994), M-Area HWMF background concentrations as defined in the 1987 Part B permit (WSRC, 1987), or drinking water standards (EPA, 1993a, 1993b). The GWPS and the MCS used for comparison are provided in Appendix A, Volume I. M-Area HWMF groundwater 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). Data from background wells AMB 11D, and 12D were not included in development of the background standard (WSRC, 1987, 1994). Therefore the comparison is to groundwater background quality not impacted by contamination from the M-Area HWMF. 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

Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. 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 4 and 5, 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 monitoring regimen for these wells to meet RCRA requirements. This monitoring regimen was modified by SCDHEC (letter dated March 15, 1999; Frasier to Odum) in response to proposals for reducing monitoring requirements submitted to support SRS's permit modification request (Revision 12 to Volume III of the 1992 RCRA Part B Permit Renewal Application). SCDHEC reviewed the proposals, Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network (WSRC-TR-98-00044) and Refinement of the List of Constituents for Groundwater Monitoring at M-Area (WSRC-TR-00347) and outlined approval of specific portions of the SRS proposals in their response (letter dated March 15, 1999; Frasier to Odum).

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
- Approval was granted by SCDHEC (letter dated March 15, 1999; Fraiser to Odum) to refine the list of inorganic Monitoring Constituents listed in Section II, Appendix IIIB-A of the permit (SCDHEC, 1995). The SCDHEC approved deletion of chromium, mercury, uranium, fluoride, cobalt, chloride, copper, zinc, manganese, and total phosphates from the monitoring requirements for plume definition wells. In addition, SCDHEC (letter dated March 15, 1999; Fraiser to Odum) approved deletion of monitoring radionuclides (gross alpha, gross beta, and total radium) at most plume definition wells, continuing analyses only on samples from the wells in the MSB 17, MSB 18 and MSB 39 clusters.

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 synchronous 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

Wells were proposed for removal from the groundwater monitoring network in permit modification requests submitted to SCDHEC (Technical Basis for Proposed Modification to the Groundwater Monitoring Program, September 1996; Technical Basis Report for Efficient Groundwater Monitoring at the A/M Area Network dated June, 1998) to reduce the sampling requirements for the M-Area HWMF. In response, SCDHEC granted approval to remove some of the proposed piezometer wells (letter of March 4, 1997; Fraiser to Wells). SCDHEC granted approval to remove some of the proposed wells from the groundwater monitoring program in response to the modification request (letter of March 15, 1999; Fraiser to Odum). Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. The network of background, plume definition, and recovery wells and piezometers currently consists of the following:

Background wells (6 total)

- 2 M-Area Aquifer Zone wells: 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 (210 total)

1 well screened in a perched zone above the water table, 49 wells in the M-Area Aquifer Zone, 4 wells screened in the M-Area Aquifer Zone/Green Clay Confining Zone, 1 wells screened in the Green Clay Confining Unit, 43 wells screened in the Upper Lost Lake Aquifer Zone, 57 wells screened in the Lower Lost Lake Aquifer Zone, 1 well screened in the Upper Clay Confining Zone-Crouch Branch Confining Unit, 32 wells screened in the Middle Sand Aquifer Zone-Crouch Branch Confining Unit, and 23 wells screened in the Crouch Branch Aquifer Unit.

Recovery wells (17 total)

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

Piezometers (57 total)

1 piezometer screened in the vadose zone; 26 piezometers screened in the M-Area Aquifer; 5 piezometers screened across the Green Clay Confining Unit such that the screen zone is in the M-Area Aquifer Zone/Green Clay Confining Zone/Upper Lost Lake Aquifer Zone; 6 screened in the Upper Lost Lake Aquifer, 9 screened in the Lower Lost Lake Aquifer, 3 screened in the Middle Sand Aquifer Zone-Crouch Branch Confining Unit, and 8 screened in the Crouch Branch Aquifer Unit.

Met Lab HWMF

Requirements and Standards

Data from background and plume definition wells (Figure 4, 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

Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. 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

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Sampling and Results

Groundwater Sampling

During first and second quarters 2000, synchronous water elevations were measured on March 20-29, 2000, and June 24-29, 2000, respectively. Synchronous water levels for the first half of 2000 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-2 through D-8 (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, 78DR, 87B, 87C, 88B, 88C, and 89B. Samples from wells MSB 15C, 16C, 42D, 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-2 through D-8 (Appendix D, Volume I).

Samples were collected by RCS Corporation of Aiken, South Carolina, and analyzed by Environmental Science & Engineering of General Engineering Laboratories of Charleston, South Carolina (South Carolina certification number 10120). 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, 1997). 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 (Appendix A, Volume I) during first quarter 2000 are presented in this report (Tables D-2 through D-10, Appendix D). Previous sampling events in first and third quarters 1999 and third quarter 1998 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 quarter 2000 at POC, background, and plume definition wells and monthly at recovery wells.

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.

Maintenance or access problems during first quarter 2000 for the remaining wells are summarized as follows:

- Well MSB 46C was scheduled but not sampled due to mechanical problems.
- Wells MSB 16C and 87C were not sampled during first quarter 2000 because there was no water to the surface in these wells.
- Well MSB 19A was abandoned in place prior to the first quarter 2000 sampling period.
- Well MSB 35A was not sampled due to a scheduling error. MSB 35A will be scheduled for sampling during third quarter 2000.
- Well MSB 66D was not sampled because the well produces too much sand despite efforts at redevelopment.
- Well MSB 67D was dry.
- Well MSB 9C was dry.

Met Lab HWMF

Groundwater sampling to determine water quality was conducted during first quarter 2000 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 first quarter 2000 are summarized as follows:

- Well AMB 14D was scheduled for sampling but was not sampled because it was dry.

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 quarter 2000. The tables identify the hazardous constituents that exceeded the Groundwater Protection Standard (GWPS) in Appendix IIIB-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995), the Monitoring Constituents that exceeded the Monitoring Constituent Standard (MCS) (Appendix A, Volume I). Table D-10 summarizes the constituents that exceeded GWPS in M-Area POC wells during first quarter 2000.

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 due to 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 first quarter 2000, 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 quarter 2000. Water elevations were determined using the elevation of the top of casing as the water level measurement reference point. The tables identify the hazardous constituents that exceeded the GWPS in Appendix IIIG-A of the 1995 RCRA Renewal Permit (SCDHEC, 1995), or the MCS (Appendix A, Volume I). Table D-11 summarizes the constituents that exceeded GWPS in Met Lab HWMF POC wells during first quarter 2000.

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 due to 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 first quarter 2000, and information concerning the wells.

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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 first and second quarters 2000 using synchronous water elevations. Water elevations were determined using the elevation of the top of standpipe as the water measurement reference point, or the top of casing in the cases where a standpipe was not present. Maps were constructed for each of the aquifer zones described in Ehrke et al. (1995). Appendix B, Volume I, lists the wells in the groundwater monitoring network, and the units they monitor. Aquifer zones are identified in this report in the *Key to Reading the Tables* section of Appendix D (Volume I). A significant number of monitoring well screen zones were re-evaluated in the process of preparing the isoconcentration and potentiometric surface maps to resolve data anomalies. As a result of this re-evaluation, many of the wells were re-designated to the appropriate monitoring zone corresponding to the screened interval. The aquifer zones monitored by each well are provided in Appendix B, Volume I, M-Area HWMF and Met Lab HWMF Monitoring and Recovery Well Network. Map directions are oriented to SRS site 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 variable. The natural stratigraphy, variability in recharge, and the removal of water by wells RWM 3, 6, 9, 10, and 11 produce 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 to southeast.
- Potentiometric contours for the Upper Lost Lake Aquifer Zone (Maps 2 and 7, Appendix H, Volume III) indicate a flow pattern, with the highest water elevations located north of A/M Areas, and flow away from this area to the southwest to southeast. 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, southeast. The most prominent feature is a generally 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, southeast. 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 Unit (Maps 5 and 10, Appendix H, Volume III) is to the west-southwest, especially in the northern vicinity of A/M Area, 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 Unit are 27, 45, 45, 45, and 40 ft/day, respectively; the effective porosity value for each is 0.20 (Aadland et al, 1995 & 1997). 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 first and second quarters 2000 (Table D-22, Appendix D, Volume I) were as follows:

First Quarter 2000

- M-Area Aquifer Zone: 128 to 361 ft/year
- Upper Lost Lake Aquifer Zone: 197 to 314 ft/year
- Lower Lost Lake Aquifer Zone: 222 to 337 ft/year
- Middle Sand Aquifer Zone of the CBCU: 140 to 320 ft/year
- Crouch Branch Aquifer Unit: 248 ft/year

Second Quarter 2000

- M-Area Aquifer Zone: 123 to 330 ft/year
- Upper Lost Lake Aquifer Zone: 213 to 238 ft/year
- Lower Lost Lake Aquifer Zone: 172 to 205 ft/year
- Middle Sand Aquifer Zone of the CBCU: 123 to 329 ft/year
- Crouch Branch Aquifer Unit: 226 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 first and second quarters 2000 are provided in Table 1 below. For comparison, the historical averages are also provided.

Table 1. A/M-Areas Precipitation Data for First and Second Quarters 2000

	Monthly Precipitation (in.)	Historical Average 1952–1999 (in.)
January	6.53	4.43
February	0.61	4.38
March	3.58	4.82
April	1.43	3.29
May	0.63	3.68
June	4.86	4.55
July	----	----
August	----	----
September	----	----
October	----	----
November	----	----
December	----	----
Semi-Annual- total	17.64	Average total:25.15

As in 1998 and 1999, precipitation in the first half of 2000 was several inches below the historical average. Concurrently, recharge rates would also be expected to be below the historical average. A reduction in recharge rates may be reflected in a decreasing trend in water elevations measured in shallow aquifers. Hydrographs showing water-elevation changes for M-Area HWMF and Met Lab HWMF monitoring wells from 1992 to present are provided in Appendix G (Volume II). Water elevations portrayed by the hydrographs were determined using the elevation of the top of standpipe as the water measurement reference point except for wells without standpipes, where top of casing was used as the reference point. Monitoring wells generally reflect a water-level decline since 1996 caused by the decrease in precipitation over the last several years. Water elevations in monitoring wells away from the recovery wells system show variations related to rainfall, proximity to streams and other physical features.

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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 contamination (Maps 11 through 20, Appendix H, Volume III). Tetrachloroethylene, although geometrically similar in distribution to trichloroethylene, is usually present in lower concentrations, and the plume is less extensive. The 5 µg/L contour lines on the isoconcentration maps encompass the areas where the constituent exceeded the GWPS during first quarter 2000.

Isoconcentration maps of nitrate-nitrite as nitrogen, sodium, and sulfate are provided in the annual reports as indicators of contamination emanating from discrete sources in the A/M area, even though these constituents are not part of the list of hazardous constituents. Nitric acid and sodium hydroxide were used to clean aluminum parts in the A/M Area during the manufacture of fuel targets for reactors. Isoconcentration maps of sodium and nitrate may be useful in identifying the zone of contamination that could be attributed to the M-Area Basin. A separate zone of elevated sodium concentrations in the Northern Sector may be indicative of another release from the SRL Seepage Basins. A distinct plume of sulfate contamination was observed within the northern sector at the SRL Seepage Basins when isoconcentration maps were plotted using first quarter 1995 and third quarter 1996 data for the M-Area and Upper Lost lake aquifers. Therefore, isoconcentration maps of sulfate may be indicative as general tracers of the contamination zone attributed to the SRL Seepage Basins.

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.

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. Isoconcentration maps, showing the extent of contamination, are interpreted and plotted for the recorded specific concentration value of a monitoring well within a specific aquifer for that specific time frame. The plume geometry and apparent extent of contamination may differ between sampling periods. Differences may in part be attributed to the distribution of data points available for each sampling period being contoured. If a particular well at a controlling location could not be sampled due to access or mechanical problems, historical data from the well was reviewed to determine what the expected value would have been from the well, and efforts were made to honor the historical data while contouring. A similar review process was used in the case of data returned from the lab with the qualifiers "J" or "L" that were posted on the maps as "non decision data" (NDD) based on guidance received from SCDHEC (letter, Taylor to Cook, April 21, 1998). Thus the extent of the plume may not be representative of past extents of the depicted analyte.

M-Area Aquifer Zone

Maps 11 -15 (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 16 through 20 (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 21 through 25 (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 of the CBCU is shown on Maps 26 through 30 (Appendix H, Volume III). Monitoring is limited in the Middle Sand Aquifer Zone of the CBCU. Constituent concentrations in this zone, as in the overlying zones, are highest near known sources. Contamination in the Middle Sand Aquifer Zone of the CBCU 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 did not confirm the existence of PCE contamination.

Crouch Branch Aquifer Unit

The distribution of constituents in the Crouch Branch Aquifer Unit is shown on Maps 31 through 35 (Appendix H, Volume III). Contaminant concentrations in the Crouch Branch Aquifer Unit 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. Downward vertical hydraulic gradients from the M-Area Aquifer Zone to the Crouch Branch Aquifer Unit 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 Unit, is indicated by constituent concentrations measured in wells monitoring that portion of the Crouch Branch Aquifer Unit.

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). The plots use a fixed, logarithmic scale providing a consistent frame of reference for evaluating changes in concentration over time. Since the vertical scale begins at 1 ppb, occasionally a few values that were less than 1 ppb drop below the x axis.

Statistical evaluations using the CUSUM test were previously performed as described in the 1987 *Annual Monitoring and Corrective-Action Report* [DuPont, 1988] and as modified in third quarter 1998. The CUSUM statistical evaluation program was rewritten in 1999 to be consistent with new EPA guidance for using CUSUM.

The RCRA Part B Permit requires annual reports on the effectiveness of the corrective action program that are to include a statistical evaluation of water quality data for significant changes. The purpose of the statistical evaluation is to identify remediation system impacts to the groundwater quality in various wells. Identifying impacts requires a statistical evaluation since normal concentration fluctuations and trends make a non-statistical approach ineffective. The statistical evaluation included in the annual report, rather than this semi-annual submittal.

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 cubic 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.

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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 six catalytic-oxidation units where the volatile organic compounds are destroyed.

The M-1 air stripper in M Area, Central Sector, is fed by 11 recovery wells (RWM series), began operating in April 1985 and has been operating full scale since September 1985. 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.

Twelve vertical, airlift recirculation wells (ARWs) are screened in the Upper and Lower Lost Lake Aquifer Zones in the Southern Sector of A/M Area. The ARW remediation system was initiated with the installation of the first SSR well in 1996. Currently 12 wells (SSR well series) are placed approximately 255 feet apart within the vicinity of the 500 ppb isoconcentration contour of trichloroethylene (based on 1994 data). The SSR wells form a line diagonal to the groundwater flow path. Computer modeling predicts the SSR wells form a vertical capture zone extending through the majority of the Lost Lake Aquifer Zone (Aleman and Hamm, 1999). Eleven wells of this Southern Sector remediation system became operational during 1999.

A description of the systems that compose the corrective-action program follows.

Air Stripper Performance

M-1 Air Stripper

A summary of first and second quarter of 2000 operating and performance data for the M-1 air stripper is presented in Table D-12 (Appendix D, Volume I). During the first half of the year, the stripper removed 5443.29 lbs. of degreaser solvent. The average total influent VOC concentration was 6,362 µg/L. The average annual effluent total was 0 µg/L.

The M-1 air stripper has removed a cumulative total of 362,055 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 396,255 lbs.

The water feed rate to the M-1 air stripper has averaged 425 gpm since startup. Total inlet solvent concentrations have decreased from roughly 47,100 µg/L in April 1985 to less than 5,730 µg/L in June 2000. Stripping efficiency has always produced effluent concentrations substantially less than the permit limits.

A-2 Air Stripper

A summary of first and second quarter of 2000 operating and performance data for the A-2 air stripper is presented in Table D-13 (Appendix D, Volume I). During the first half of the year, the stripper removed 759.3 lbs. of degreaser solvent from RWM 12, RWM 13B, RWM 13C, RWM 14B, RWM 14C, and RWM 15. The average semi-annual influent concentration was 1,266 µg/L, and the average semi-annual effluent VOC concentration was 1 µg/L.

Vadose Zone Unit Performance

SVEU Vadose Zone Unit 782-3M

A summary of first and second quarter of 2000 operating and performance data for the 782-3M is presented in Table D-14 (Appendix D, Volume I). During the first half of the year, the 782-3M removed a total of 7,294.43 lbs. of degreaser solvent. The average annual VOC influent concentration was 124.04 ppmv.

SVEU Vadose Zone Unit 782-4M

A summary of first and second quarter of 2000 operating and performance data for the 782-4M is presented in Table D-15 (Appendix D, Volume I). During the first half of the year, the 782-4M removed a total of 9664.00 lbs. of degreaser solvent. The average annual influent VOC concentration was 239.75 ppmv.

SVEU Vadose Zone Unit 782-5M

A summary of first and second quarter of 2000 operating and performance data for the 782-5M is presented in Table D-16 (Appendix D, Volume I). During 1999, the 782-5M achieved its goal and was taken out of operation.

SVEU Vadose Zone Unit 782-6M

A summary of first and second quarter of 2000 operating and performance data for the 782-6M is presented in Table D-17 (Appendix D, Volume I). During the first half of the year, the 782-6M removed a total of 4996.93 lbs. of degreaser solvent. The average annual influent VOC concentration was 323.34 ppmv.

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

A summary of first and second quarter of 2000 operating and performance data for the 782-7M (formerly the IDU) is presented in Table D-18 (Appendix D, Volume I). During the first half of the year, the 782-7M removed 1173.51 lbs. of degreaser solvent. The average annual influent VOC concentration was 35.37 ppmv during this time.

SVEU Vadose Zone Unit 782-8M

A summary of first and second quarter of 2000 operating and performance data for the 782-8M is presented in Table D-19 (Appendix D, Volume I). During 1999, the 782-8M achieved its goal and was removed from service.

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-20 (Appendix D, Volume I). Monthly concentrations (µg/L) of tetrachloroethylene and trichloroethylene in each well are presented in Table D-21 (Appendix D, Volume I). Volume pumped for RWM 11 was unavailable due to equipment malfunction. Therefore, the average concentrations were estimated.

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 the first half of 2000 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-14 (Appendix D, Volume I) presents a summary of first half of 2000 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-15 (Appendix D, Volume I) presents a summary of first half of 2000 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-16 (Appendix D, Volume I) presents a summary of first half of 2000 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-17 (Appendix D, Volume I) presents a summary of first half of 2000 activity at the 782-6M.

Soil vapor extraction wells AMH 4 and AMH 5 pump contaminated air to the SVEU Vadose Zone Unit 782-8M, located near the IDU. Table D-18 (Appendix D, Volume I) presents the summary of activity for first half of 2000 at the 782-8M. During the first half of 2000, 782-8M was removed from service.

Air Stripper Modifications

Modifications were made to M1 and A2 Air Stripper operations during 1999. SCDHEC approved a modification to the Air Quality Control Permit to allow the M1 Air Stripper to operate without treating the PCE and TCE emissions from this unit. The operation of the M1 catalyst oxidation unit ceased in 1999.

SCDHEC approved a modification to the Air Quality Control Permit to allow the A2 Air Stripper to operate without treating the PCE and TCE emissions from this unit. The operation of the A2 catalyst oxidation unit ceased in 1999. A stack was added to the top of the air stripper per AQC permit modification.

Construction was completed on the connection from the Met Lab wells to the M1 Air Stripper in First and Second Quarter of 2000. Operation of RWM-17B commenced on June 12, 2000. RWM-17D was dry on June 12, 2000 probably due to the recent draught.

Vadose Zone Unit Modifications

A modification was made in 1999 to Soil Vapor Extraction Units 782-3M, 4M, 5M, 6M, and 7M. SCDHEC approved a modification to the Air Quality Control Permit to allow these units to operate without treating the PCE and TCE emissions. The catalysts were removed and the heaters are no longer used to treat the emissions per AQC permit modification.

Soil Vapor Extraction Units 782-5M and 782-8M appear to have achieved their goal and ceased operations in 1999.

As stated in the M-Area Part B Permit Modification, Rev. 4, final shutdown of the soil vapor extraction units will be supported by an assessment of the areas under remediation. SRS plans to assess the areas using depth discrete soil cores and soil gas sampling. Sampling efforts are planned to take place by November, 2000.

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Monitoring and Corrective-Action Program Assessment

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 groundwater 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.

Two additional SVE units, located near the M-Area Settling Basin and the process sewer line, were on line in 1997.

Additional characterization of the vadose zone contamination plume was completed in 1997 and early 1998. These results were compiled for submittal and further action strategies.

The Vadose Zone Monitoring Plan was submitted under separate cover in March 1998.

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.

Investigation Derived Waste Minimization

In 1999, SRS initiated use of an alternate monitoring well design, the Westbay Multi-port Sampling System. The Westbay Multi-port Sampling System allows groundwater sampling from multiple screened intervals in the same well bore. The advantage in utilizing this technology is that only a single well bore need to be drilled for multiple completions. Also, because the sampling device is connected directly to the aquifer via a depressible "O-ring", the only Investigation Derived Waste (IDW) that is generated is from the unused portion of the groundwater sample brought to the surface in the sampling chambers. The best application of this technology is for VOC contaminated groundwater in thick (i.e., 40-60 feet) aquifers which exhibit clean sand formations with very thin clay laminae. It is especially useful when volatile contamination is present due to the low sample volume needed for analysis. The sampler is limited to approximately one-half liter per run in the hole. This is the major limiting factor. As many as four canisters can be strung together to produce one liter of sample, however then a 20-foot sump below the sampling port is required.

The first Westbay system was installed in the spring of 1999, MSB-91TB. This pilot Westbay system was completed in the Crouch Branch Aquifer Unit with two screened intervals. Installation of this Westbay system provided dual benefits by reducing IDW generation, and also reducing installation costs since conventional well installation would have required using surface casing for two wells, instead of just one. Following this successful application of the Westbay system, the technology was applied to eight Effectiveness Monitoring wells (SSM 10 – 17), designed to monitor the effectiveness of the recirculation well (SSR 1 – 12) VOC remediation in the Southern Sector of A/M Area. These eight Westbay completions in the Lost Lake Aquifer Zone have two screened intervals each, one interval screened in the Upper Lost Lake Aquifer Zone, and one in the Lower Lost Lake Aquifer Zone. The southern sector wells were installed in two phases of four wells each. The first was in October/November 1999 time frame and the last four were installed in January 2000.

Planned activities are for installation of the Westbay Multi-port Sampling System in five Effectiveness Monitoring well installations at the Miscellaneous Chemical Basin (MCB). This remediation activity is for VOC contamination in the Lost Lake Aquifer Zone also. For the MCB installation two screened intervals will have the Westbay system installed. Although the MCB is not part of the M-Area or Met Lab HWMFs, monitoring activities are included in this report due to its proximity to the HWMFs, and its inclusion on area maps. Other planned activities are for the installation of as many as eight Westbay systems in the Crouch Branch Aquifer Unit, with up to three screened zones each. To date, all the screen zones in a given well bore have been in the same aquifer zone. That is to say, none of the Westbay systems have yet positioned screen zones above and below a confining unit in the same well bore.

Central Sector Remediation

The remediation strategy in the Central Sector has been to identify and remove DNAPL in the subsurface, while continuing mass removal from the dissolved plume using the M-1 Air Stripper and recovery well system. Remediation is complemented with Soil Vacuum Extraction operations in the vadose zone.

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 being developed to predict mobility of the DNAPL pool that is located near the M-Area Settling Basin and Lost Lake. Characterization was initiated and completed in the Western Sector during 1998 that further defined the plume and lithology in the area.

Southern Sector Remediation

The southern sector plume has an estimated aerial extent of 800 acres, ranging from relatively dilute concentrations of volatile organic compounds to concentrations in the 1000 ppb range, and is outside the zone of influence of the M-1 and A-2 Air Stripper groundwater recovery system. SRS investigated the southern sector to determine the boundary of solvent contamination and to define the geology and hydrology of the area. Based on the results of the assessments, in 1996 SRS installed two vertical recirculation wells in the Lost Lake Aquifer Zone to control downgradient migration of the >500 ppb boundary of the VOC plume. Ten additional wells were also installed in the Lost Lake Aquifer Zone and start-up of 11 of the 12 wells in the system began in 1999. Monthly status reports have continued on the progress of the remedial system. A multi-stage, in-well aerator, developed by Davis Environmental, was installed into SSR-012.

An "effectiveness monitoring plan" was submitted to SCDHEC and was approved in 1999. The plan proposed installation of 8 wells, in addition to using 4 existing wells to monitor effectiveness of the ARW treatment system. Reports will be submitted annually to SCDHEC. The first report is due for submittal May 15, 2000.

Northern Sector Characterization and Remediation

Characterization of the northern sector was initiated in 1998 by drilling three soil borings. Initial results of the borings showed a positive VOC result in the Lost Lake and Crouch Branch Aquifers. Follow-up testing has failed to confirm the VOC results in these borings. However, additional monitoring wells were installed in 1999 for continued monitoring of the Lost Lake and Crouch Branch Aquifers.

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 Unit. The A-2 air stripper, with a feed rate of 300 gpm, is fed by six recovery wells: RWM 13B, 13C, 14B, 14C, 15B and RWM 12 (previously from the A-1 stripper unit). This unit began operating in fiscal year 1996.

Although not designed for remediation purposes, production wells 905-20A and 905-53A provide remediation benefits in the Crouch Branch Aquifer in the Northern Sector. The annual operating frequency of the production wells is expected to remove approximately 700 lbs. of solvent every year (Jackson et al., 1997).

Met Lab HWMF

Vadose zone remediation was initiated in 1998 with the installation and operation of 20 BaroBalls within the Met Lab area. Two additional recovery wells, RWM 17 and 18, began feeding groundwater into the M-1 Air Stripper as of July 2000.

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

A modification to the current sampling program was submitted in 1998 to reduce the sampling requirements (analytes and wells) for the M-Area HWMF. This modification received partial approval in March 1999.

A/M-Areas Vadose Zone Remediation Program

During 1998, SRS prepared and delivered an air permit modification to SCDHEC for eliminating offgas treatment at the vadose zone units. This draft permit was presented for public comment in early 1999 and was approved.

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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.

Third and Fourth Quarters 1999

No errata have been reported.

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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	40 ^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)
Radionuclides			
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 as defined in R.61-79.264 Appendix IX.

^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>
Groundwater Protection Standard			
261 Appendix VIII / 264 Appendix IX Hazardous Constituents			
Inorganics			
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)
Organics			
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	5 ^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)
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)

<u>Constituent</u>	<u>Standard</u>	<u>Unit</u>	<u>Source</u>
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	40 ^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 standards in the 1995 RCRA Renewal Permit.
- ^b Concentration is the practical quantitation limit (PQL) as defined in R.61-79.264 Appendix IX.
- ^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 as defined in R.61-79.264 Appendix IX.
- ^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
Well Network

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Well Name	Met Lab Well Use	Aquifer Name
MSB 29B	Background Well	Lower Lost Lake Aquifer Zone
MSB 43A	Background Well	Lower Lost Lake Aquifer Zone
AMB 11D	Background Well	M-Area Aquifer Zone
AMB 12D	Background Well	M-Area Aquifer Zone
MSB 29D	Background Well	M-Area Aquifer Zone
MSB 43D	Background Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 29C	Background Well	Upper Lost Lake Aquifer Zone
MSB 43B	Background Well	Upper Lost Lake Aquifer Zone
AMB 4B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 7B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 7	Plume Definition Well	M-Area Aquifer Zone
AMB 14D	Plume Definition Well	M-Area Aquifer Zone
AMB 15D	Plume Definition Well	M-Area Aquifer Zone
AMB 7A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 13AR	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 11B	Plume Definition Well	Upper Lost Lake Aquifer Zone
AMB 10B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
AMB 4D	Point of Compliance Well	M-Area Aquifer Zone
AMB 5	Point of Compliance Well	M-Area Aquifer Zone
AMB 6	Point of Compliance Well	M-Area Aquifer Zone
AMB 8D	Point of Compliance Well	M-Area Aquifer Zone
AMB 9D	Point of Compliance Well	M-Area Aquifer Zone
AMB 10D	Point of Compliance Well	M-Area Aquifer Zone
AMB 16D	Point of Compliance Well	M-Area Aquifer Zone
AMB 4A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 10A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 17A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
AMB 19C	Point of Compliance Well	Upper Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 29B	Background Well	Lower Lost Lake Aquifer Zone
MSB 43A	Background Well	Lower Lost Lake Aquifer Zone
MSB 29D	Background Well	M-Area Aquifer Zone
MSB 43D	Background Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 29C	Background Well	Upper Lost Lake Aquifer Zone
MSB 43B	Background Well	Upper Lost Lake Aquifer Zone
MSB 21TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 30A	Piezometer Well	Crouch Branch Aquifer Unit
MSB 31A	Piezometer Well	Crouch Branch Aquifer Unit
MSB 33TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 37TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 38TA	Piezometer Well	Crouch Branch Aquifer Unit
MSB 40TA	Piezometer Well	Crouch Branch Aquifer Unit
SRW 12A	Piezometer Well	Crouch Branch Confining Unit
AC 2A	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 11A	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 12A	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 41C	Piezometer Well	Lower Lost Lake Aquifer Zone
MSB 50B	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 3BB	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 9A	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 11BB	Piezometer Well	Lower Lost Lake Aquifer Zone
SRW 13A	Piezometer Well	Lower Lost Lake Aquifer Zone
AC 2B	Piezometer Well	M-Area Aquifer Zone
AC 3B	Piezometer Well	M-Area Aquifer Zone
ACB 2A	Piezometer Well	M-Area Aquifer Zone
ASB 9	Piezometer Well	M-Area Aquifer Zone
MCB 2	Piezometer Well	M-Area Aquifer Zone
MCB 9D	Piezometer Well	M-Area Aquifer Zone
MSB 25	Piezometer Well	M-Area Aquifer Zone
MSB 35D	Piezometer Well	M-Area Aquifer Zone
MSB 37D	Piezometer Well	M-Area Aquifer Zone
MSB 40D	Piezometer Well	M-Area Aquifer Zone
MSB 41D	Piezometer Well	M-Area Aquifer Zone
MSB 45C	Piezometer Well	M-Area Aquifer Zone
MSB 51D	Piezometer Well	M-Area Aquifer Zone
MSB 52D	Piezometer Well	M-Area Aquifer Zone
MSB 53D	Piezometer Well	M-Area Aquifer Zone
MSB 56D	Piezometer Well	M-Area Aquifer Zone
MSB 77D	Piezometer Well	M-Area Aquifer Zone
MSB 89C	Piezometer Well	M-Area Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
SRW 3A	Piezometer Well	M-Area Aquifer Zone
SRW 6	Piezometer Well	M-Area Aquifer Zone
SRW 9	Piezometer Well	M-Area Aquifer Zone
SRW 12C	Piezometer Well	M-Area Aquifer Zone
SRW 13C	Piezometer Well	M-Area Aquifer Zone
SRW 15C	Piezometer Well	M-Area Aquifer Zone
SRW 16C	Piezometer Well	M-Area Aquifer Zone
SRW 17DR	Piezometer Well	M-Area Aquifer Zone
ARP 1A	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 2	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 3	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 4	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 5D	Piezometer Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
MSB 42A	Piezometer Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 44A	Piezometer Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 15A	Piezometer Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AC 1A	Piezometer Well	Upper Lost Lake Aquifer Zone
MSB 24A	Piezometer Well	Upper Lost Lake Aquifer Zone
MSB 46B	Piezometer Well	Upper Lost Lake Aquifer Zone
MSB 50D	Piezometer Well	Upper Lost Lake Aquifer Zone
SRW 13B	Piezometer Well	Upper Lost Lake Aquifer Zone
SRW 15B	Piezometer Well	Upper Lost Lake Aquifer Zone
ASB 6TA	Plume Definition Well	Crouch Branch Aquifer Unit
ASB 8TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 12TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 23TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 27TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 29TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 34TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 35TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 36TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 37A	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 39TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 41TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 42TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 43TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 47TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 48TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 54TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 55TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 66TA	Plume Definition Well	Crouch Branch Aquifer Unit

Well Name	M Area Well Use	Aquifer Name
MSB 69TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 82TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 83TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 85TA	Plume Definition Well	Crouch Branch Aquifer Unit
MSB 17B	Plume Definition Well	Green Clay Confining Zone
ABP 3C	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 4B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 7B	Plume Definition Well	Lower Lost Lake Aquifer Zone
AMB 10B	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 2CR	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 3CR	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 5C	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 9B	Plume Definition Well	Lower Lost Lake Aquifer Zone
ASB 10CR	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 9A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 10B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 15AA	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 17BB	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 19B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 21B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 25A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 26B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 30B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 31B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 32B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 33B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 34A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 36B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 37C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 38C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 39B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 40B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 42B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 45A	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 47B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 48B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 49B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 51B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 52B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 53B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 54C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 55C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 64B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 66C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 68C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 69C	Plume Definition Well	Lower Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 71B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 72B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 73B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 74B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 75B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 77B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 79B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 81B	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 82C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 83C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 84C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 85C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 86C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 88C	Plume Definition Well	Lower Lost Lake Aquifer Zone
MSB 89B	Plume Definition Well	Lower Lost Lake Aquifer Zone
SRW 16A	Plume Definition Well	Lower Lost Lake Aquifer Zone
ABP 2A	Plume Definition Well	M-Area Aquifer Zone
AMB 4D	Plume Definition Well	M-Area Aquifer Zone
AMB 7	Plume Definition Well	M-Area Aquifer Zone
AMB 9D	Plume Definition Well	M-Area Aquifer Zone
AMB 12D	Plume Definition Well	M-Area Aquifer Zone
AMB 15D	Plume Definition Well	M-Area Aquifer Zone
AMB 16D	Plume Definition Well	M-Area Aquifer Zone
AOB 1	Plume Definition Well	M-Area Aquifer Zone
AOB 2	Plume Definition Well	M-Area Aquifer Zone
ASB 2AR	Plume Definition Well	M-Area Aquifer Zone
ASB 3AR	Plume Definition Well	M-Area Aquifer Zone
ASB 4	Plume Definition Well	M-Area Aquifer Zone
ASB 5AR	Plume Definition Well	M-Area Aquifer Zone
ASB 6A	Plume Definition Well	M-Area Aquifer Zone
ASB 8	Plume Definition Well	M-Area Aquifer Zone
MSB 9C	Plume Definition Well	M-Area Aquifer Zone
MSB 11F	Plume Definition Well	M-Area Aquifer Zone
MSB 15D	Plume Definition Well	M-Area Aquifer Zone
MSB 16C	Plume Definition Well	M-Area Aquifer Zone
MSB 18B	Plume Definition Well	M-Area Aquifer Zone
MSB 19C	Plume Definition Well	M-Area Aquifer Zone
MSB 20C	Plume Definition Well	M-Area Aquifer Zone
MSB 21C	Plume Definition Well	M-Area Aquifer Zone
MSB 24	Plume Definition Well	M-Area Aquifer Zone
MSB 26	Plume Definition Well	M-Area Aquifer Zone
MSB 27	Plume Definition Well	M-Area Aquifer Zone
MSB 28	Plume Definition Well	M-Area Aquifer Zone
MSB 31C	Plume Definition Well	M-Area Aquifer Zone
MSB 32	Plume Definition Well	M-Area Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 33	Plume Definition Well	M-Area Aquifer Zone
MSB 34C	Plume Definition Well	M-Area Aquifer Zone
MSB 36D	Plume Definition Well	M-Area Aquifer Zone
MSB 39D	Plume Definition Well	M-Area Aquifer Zone
MSB 42D	Plume Definition Well	M-Area Aquifer Zone
MSB 46C	Plume Definition Well	M-Area Aquifer Zone
MSB 47D	Plume Definition Well	M-Area Aquifer Zone
MSB 48D	Plume Definition Well	M-Area Aquifer Zone
MSB 49D	Plume Definition Well	M-Area Aquifer Zone
MSB 65D	Plume Definition Well	M-Area Aquifer Zone
MSB 66D	Plume Definition Well	M-Area Aquifer Zone
MSB 67D	Plume Definition Well	M-Area Aquifer Zone
MSB 69D	Plume Definition Well	M-Area Aquifer Zone
MSB 70D	Plume Definition Well	M-Area Aquifer Zone
MSB 74D	Plume Definition Well	M-Area Aquifer Zone
MSB 82D	Plume Definition Well	M-Area Aquifer Zone
MSB 85D	Plume Definition Well	M-Area Aquifer Zone
MSB 87C	Plume Definition Well	M-Area Aquifer Zone
MSB 88B	Plume Definition Well	M-Area Aquifer Zone
SRW 16B	Plume Definition Well	M-Area Aquifer Zone
SRW 18	Plume Definition Well	M-Area Aquifer Zone
ASB 1A	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 54D	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 55D	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 78DR	Plume Definition Well	M-Area Aquifer Zone / Green Clay Confining Zone
AMB 4A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 7A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 10A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 13AR	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 17A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
ASB 6AA	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
ASB 8B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 10A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 19A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 29A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 30AA	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 33A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 35A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 36A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 37B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 40A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 41B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 46A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 48A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 49A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit

Well Name	M Area Well Use	Aquifer Name
MSB 54B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 55B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 66B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 68B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 69B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 82A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 83B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 84A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 85B	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 2A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 14A	Plume Definition Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 19	Plume Definition Well	Perched Unit Above M-Area Aquifer Zone
MSB 82B	Plume Definition Well	Upper Clay Confining Zone - Crouch Branch Confining Unit
ABP 8C	Plume Definition Well	Upper Lost Lake Aquifer Zone
AC 3A	Plume Definition Well	Upper Lost Lake Aquifer Zone
AMB 18C	Plume Definition Well	Upper Lost Lake Aquifer Zone
AMB 19C	Plume Definition Well	Upper Lost Lake Aquifer Zone
ASB 6C	Plume Definition Well	Upper Lost Lake Aquifer Zone
ASB 8C	Plume Definition Well	Upper Lost Lake Aquifer Zone
ASB 9C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MCB 5C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MCB 6C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MCB 7C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 11C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 12B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 15A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 16A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 18A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 20A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 23B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 27B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 28A	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 30CC	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 31CC	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 32C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 33C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 34B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 35B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 36C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 39C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 40C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 42C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 45B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 47C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 48C	Plume Definition Well	Upper Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 53C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 55HC	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 70C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 74C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 75C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 76C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 77C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 79C	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 87B	Plume Definition Well	Upper Lost Lake Aquifer Zone
SRW 2B	Plume Definition Well	Upper Lost Lake Aquifer Zone
SRW 14B	Plume Definition Well	Upper Lost Lake Aquifer Zone
MSB 1B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 2B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 3B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 4B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 5B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 6B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 7B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 8B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 13A	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 62B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 63B	Point of Compliance Well	Lower Lost Lake Aquifer Zone
MSB 1D	Point of Compliance Well	M-Area Aquifer Zone
MSB 2D	Point of Compliance Well	M-Area Aquifer Zone
MSB 3D	Point of Compliance Well	M-Area Aquifer Zone
MSB 4D	Point of Compliance Well	M-Area Aquifer Zone
MSB 5A	Point of Compliance Well	M-Area Aquifer Zone
MSB 6A	Point of Compliance Well	M-Area Aquifer Zone
MSB 7A	Point of Compliance Well	M-Area Aquifer Zone
MSB 8A	Point of Compliance Well	M-Area Aquifer Zone
MSB 13D	Point of Compliance Well	M-Area Aquifer Zone
MSB 59D	Point of Compliance Well	M-Area Aquifer Zone
MSB 62D	Point of Compliance Well	M-Area Aquifer Zone
MSB 63D	Point of Compliance Well	M-Area Aquifer Zone
MSB 64D	Point of Compliance Well	M-Area Aquifer Zone
MSB 39A	Point of Compliance Well	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 1C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 2C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 3C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 4C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 5C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 6C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 7C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 8C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 13CC	Point of Compliance Well	Upper Lost Lake Aquifer Zone

Well Name	M Area Well Use	Aquifer Name
MSB 62C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 63C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
MSB 64C	Point of Compliance Well	Upper Lost Lake Aquifer Zone
SSR 10	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 1	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 2	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 3	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 4	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 5	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 6	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 7	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 8	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 9	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 11	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
SSR 12	Recirculation Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 8	Recovery Well	Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 13B	Recovery Well	Lower Lost Lake Aquifer Zone
RWM 14B	Recovery Well	Lower Lost Lake Aquifer Zone
RWM 15B	Recovery Well	Lower Lost Lake Aquifer Zone
RWM 9	Recovery Well	M-Area Aquifer Zone
RWM 10	Recovery Well	M-Area Aquifer Zone
RWM 4	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 5	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 6	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 7	Recovery Well	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone
RWM 1	Recovery Well	Unknown
RWM 2	Recovery Well	Unknown
RWM 3	Recovery Well	Unknown
RWM 11	Recovery Well	Unknown
RWM 13C	Recovery Well	Upper Lost Lake Aquifer Zone
RWM 14C	Recovery Well	Upper Lost Lake Aquifer Zone
RWM 12	Recovery Well	Upper Lost Lake Aquifer Zone / Lower Lost Lake Aquifer Zone

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Appendix C

Figures and Maps

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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 HWMF

Figure 3. Location of Point-of-Compliance Wells at the Metallurgical Laboratory HWMF

Figure 4. M-Area Sectors

Figure 5. Location of Plume Definition and Background Wells at the M-Area HWMF

Figure 6. Location of Plume Definition and Background Wells at the Metallurgical Laboratory HWMF

Figure 7. Location of Recovery Wells at the M-Area HWMF

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Appendix D

Groundwater Monitoring Results Tables

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	Recra LabNet Philadelphia.

Nomenclature

AZ	-	Aquifer Zone
CBAU	CBA	Crouch Branch Aquifer Unit (previously Black Creek)
CBCU	CBC	Crouch Branch Confining Unit
GAU	GAU	Gordon Aquifer Unit
GCCZ	GC	Green Clay Confining Zone
LAZ_UTRA	LAZ	Lower Aquifer Zone-Upper Three Runs Aquifer Unit
LLAZ	LLAZ	Lost Lake Aquifer Zone
LLLAZ	LL	Lower Lost Lake Aquifer Zone (previously Lower Congaree)
MAAZ	M	M-Area Aquifer Zone (previously Water Table)
MSAZ_CBCU	MCBC	Middle Sand Aquifer Zone-CBCU (previously Ellenton Sand)
PZ	PZ	Perched Zone
UAZ_UTRA	UAZ	Upper Aquifer Zone-Upper Three Runs Aquifer Unit
ULLAZ	UL	Upper Lost Lake Aquifer Zone (previously Upper Congaree)
UNKNOWN	UNK	Unknown

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
T	samples were collected, but some samples were not sent to the laboratory due to high turbidity
W	unable to sample well because of stabilization or sampling equipment failure; 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 Codes

CLP	EPA Functional Guideline Codes
CS	carbon steel
DF	<i>dilution factor</i> column in data tables
E	exponential notation (e.g., $1.1\text{E}-09 = 1.1 \times 10^{-9} = 0.0000000011$)
STORET	EPA STORET result qualifiers
Filt.	Data results after application of the Data Usability filter
GWPS	groundwater protection standard
MCS	monitoring constituents standard
Mod	<i>modifier</i> column in data tables
NDD	<i>"not decision data"</i>
PDWS	primary drinking water standard
PVC	polyvinyl chloride
ST	<i>exceeded the GWPS or MCS</i> column in data tables
TOC	top of casing
<EQL	less sample-specific estimated quantitation limit

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.

Uncertainty and Data Usability

In April 1998, SCDHEC accepted guidance proposed by SRS to apply a method for minimizing uncertainty in compliance decisions potentially affecting long-term monitoring or remediation (letter, Taylor to Cook; April 21, 1998). The method is applied by processing or "filtering" the data, using the EPA Functional Guideline Codes applied by the laboratories to qualify the analytical results. By removing all data with a result qualifier of "L", "R", "U", and "J" from consideration, groundwater data users can ensure that only quantified numerical results are applied to the decision process. The output of the filtering process populates the "Filt" column as follows:

1) "Null" or "blank" – Data not remarked. The analytical result is acceptable for use as reported, and the result is not greater than an associated concentration limit for the analyte. If a concentration limit exists for the analyte, and the result is greater than the concentration limit, then the "Filt." Column will contain the applicable limit, and the "greater than" symbol. For example, in the case of trichloroethylene, ">5" would indicate the result exceeded a concentration limit of 5 ug/L.

Rationale: The best result would be one without qualifiers, so the preferred choice would be the maximum result that did not have any qualifiers.

2) "J", "L", "N", "NJ", or "JL" – "J" identifies that the analyte was positively identified; the associated numerical value is an estimated concentration of the analyte in the sample. "L" Indicates the sample result is off scale high. "JL" Indicates an estimated quantity of a sample that is off scale high. "N" is used for all TIC (tentatively identified compounds) and indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification. "NJ" means the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

Rationale: an estimate can still provide useful information. Although there may be a range of uncertainty around the actual value, the value itself may still grossly exceed a regulatory standard. However, a estimated value is less certain than an unqualified result. Therefore, this would be labeled as "NDD" (not decision data).

3) "U" - material analyzed for, but not detected. The analyte concentration is less than the sample specific Estimated Quantitation Limit and labeled "<EQL".

Rationale: a result above the detection limit would be chosen before a result below detection so that the process is not biased toward false negatives.

4) "UJ" - result is not above the reported sample quantitation limit, but the reported quantitation limit itself is approximate, and may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Rationale: the additional qualifiers make this result less reliable for use than the "U" without qualifiers. These results would be labeled "<EQL".

5) "Rejected" – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Rationale: the only value in providing this result in the report is to indicate that the lab attempted to analyze the sample. If there are any other results available, the result with the "R" qualifier should not be reported. If it is reported, it is definitely "NDD" (not decision data).

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, the result qualifier Q in the "EPA" 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 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 qualifiers can be a key component in assessing data usability. The EPA Functional Guideline Codes used by the analytical laboratories are shown in the CLP result qualifier column are defined below. These modifiers appear in the data tables under the column CLP. EPA STORET codes appear in the data tables under the column labeled EPA.

"CLP" Qualifiers - EPA Functional Guideline Codes

(Blank)	Data not remarked. The analytical result is acceptable for use as reported.
J	The analyte was positively identified; the associated numerical value is an estimated concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification. Used for all TIC results.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence of absence of the analyte cannot be verified. Assignment of <i>R</i> requires approval by the appropriate WSRC data validation coordinator.
U	Material analyzed for but not detected. Analytical result reported is less than the sample quantitation limit.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

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.

"EPA" Qualifiers - EPA STORET Codes

(Blank)	Data not remarked
C	The result is calculated.
I	The result is less than the ssEQL, but equal to or greater than the MDL. Always reported with an associated EPA functional Guideline Code qualifier of <i>U</i> .
K	The actual concentration is known to be less than the reported result.
L	The actual concentration is know to be less than the reported result.
O	Sample received by laboratory, but the analysis was lost or not performed.
Q	Sample was held beyond normal holding time prior to analysis.

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

Water Level Measurement Periods

1Q00	03/20/00 to 03/29/00
2Q00	06/24/00 to 06/29/00

M-Area Aquifer Zone

Well Name	1Q00	2Q00	Aquifer Name
SRW 19	NA	NA	Perched Unit Above M-Area Aquifer Zone
ABP 2A	222.2	221.0	M-Area Aquifer Zone
AC 2B	225.5	225.2	M-Area Aquifer Zone
AC 3B	211.2	210.6	M-Area Aquifer Zone
ACB 2A	232.1	231.5	M-Area Aquifer Zone
AMB 4D	229.6	228.9	M-Area Aquifer Zone
AMB 5	230.1	229.5	M-Area Aquifer Zone
AMB 6	230.1	229.4	M-Area Aquifer Zone
AMB 7	230.7	229.5	M-Area Aquifer Zone
AMB 8D	230.1	229.3	M-Area Aquifer Zone
AMB 9D	229.9	229.2	M-Area Aquifer Zone
AMB 10D	230.9	229.9	M-Area Aquifer Zone
AMB 11D	231.2	230.5	M-Area Aquifer Zone
AMB 12D	230.7	230.0	M-Area Aquifer Zone
AMB 14D	228.5	NA	M-Area Aquifer Zone
AMB 15D	230.1	238.7	M-Area Aquifer Zone
AMB 16D	230.0	218.1	M-Area Aquifer Zone
AOB 1	NA	NA	M-Area Aquifer Zone
AOB 2	231.2	NA	M-Area Aquifer Zone
ASB 2AR	235.7	235.3	M-Area Aquifer Zone
ASB 3AR	236.1	233.7	M-Area Aquifer Zone
ASB 4	236.1	233.8	M-Area Aquifer Zone
ASB 5AR	233.5	230.7	M-Area Aquifer Zone
ASB 6A	228.8	209.1	M-Area Aquifer Zone
ASB 8	232.0	231.1	M-Area Aquifer Zone
ASB 9	239.4	238.7	M-Area Aquifer Zone
MCB 2	223.1	222.0	M-Area Aquifer Zone
MCB 9D	222.2	221.1	M-Area Aquifer Zone
MSB 1D	228.5	227.8	M-Area Aquifer Zone
MSB 2D	229.0	228.4	M-Area Aquifer Zone
MSB 3D	NA	NA	M-Area Aquifer Zone
MSB 4D	227.7	227.0	M-Area Aquifer Zone
MSB 5A	226.2	NA	M-Area Aquifer Zone
MSB 6A	226.3	224.9	M-Area Aquifer Zone
MSB 7A	227.3	226.2	M-Area Aquifer Zone
MSB 8A	168.0	NA	M-Area Aquifer Zone
MSB 9C	NA	NA	M-Area Aquifer Zone
MSB 11F	228.3	227.6	M-Area Aquifer Zone
MSB 13D	226.6	225.9	M-Area Aquifer Zone
MSB 15D	NA	237.5	M-Area Aquifer Zone

M-Area Aquifer Zone (Cont.)

Well Name	1Q00	2Q00	Aquifer Name
MSB 16C	228.5	227.5	M-Area Aquifer Zone
MSB 18B	220.5	219.9	M-Area Aquifer Zone
MSB 19C	233.3	232.6	M-Area Aquifer Zone
MSB 20C	225.6	225.1	M-Area Aquifer Zone
MSB 21C	228.1	227.1	M-Area Aquifer Zone
MSB 24	233.9	233.5	M-Area Aquifer Zone
MSB 25	NA	NA	M-Area Aquifer Zone
MSB 26	229.4	228.6	M-Area Aquifer Zone
MSB 27	NA	226.5	M-Area Aquifer Zone
MSB 28	228.4	227.7	M-Area Aquifer Zone
MSB 29D	230.4	229.9	M-Area Aquifer Zone
MSB 31C	231.1	230.3	M-Area Aquifer Zone
MSB 32	223.0	221.9	M-Area Aquifer Zone
MSB 33	216.1	216.0	M-Area Aquifer Zone
MSB 34C	228.4	NA	M-Area Aquifer Zone
MSB 35D	NA	238.5	M-Area Aquifer Zone
MSB 36D	232.5	231.8	M-Area Aquifer Zone
MSB 37D	229.3	228.4	M-Area Aquifer Zone
MSB 39D	230.3	229.3	M-Area Aquifer Zone
MSB 40D	226.5	225.8	M-Area Aquifer Zone
MSB 41D	241.0	241.1	M-Area Aquifer Zone
MSB 42D	229.7	230.5	M-Area Aquifer Zone
MSB 45C	NA	NA	M-Area Aquifer Zone
MSB 46C	NA	NA	M-Area Aquifer Zone
MSB 47D	231.9	230.9	M-Area Aquifer Zone
MSB 48D	231.4	230.5	M-Area Aquifer Zone
MSB 49D	228.1	226.4	M-Area Aquifer Zone
MSB 51D	209.5	209.0	M-Area Aquifer Zone
MSB 52D	235.4	234.9	M-Area Aquifer Zone
MSB 53D	231.4	220.1	M-Area Aquifer Zone
MSB 56D	219.3	219.7	M-Area Aquifer Zone
MSB 59D	228.1	227.4	M-Area Aquifer Zone
MSB 62D	227.5	226.7	M-Area Aquifer Zone
MSB 63D	227.8	227.2	M-Area Aquifer Zone
MSB 64D	225.3	224.9	M-Area Aquifer Zone
MSB 65D	230.1	NA	M-Area Aquifer Zone
MSB 66D	267.2	267.1	M-Area Aquifer Zone
MSB 67D	NA	NA	M-Area Aquifer Zone
MSB 69D	231.8	231.0	M-Area Aquifer Zone
MSB 70D	220.2	215.9	M-Area Aquifer Zone

M-Area Aquifer Zone (Cont.)

Well Name	1Q00	2Q00	Aquifer Name
MSB 74D	230.0	229.4	M-Area Aquifer Zone
MSB 77D	232.0	231.4	M-Area Aquifer Zone
MSB 82D	231.6	230.6	M-Area Aquifer Zone
MSB 85D	231.5	230.5	M-Area Aquifer Zone
MSB 87C	NA	NA	M-Area Aquifer Zone
MSB 88B	200.4	200.1	M-Area Aquifer Zone
MSB 89C	228.1	227.4	M-Area Aquifer Zone
SRW 3A	213.9	211.1	M-Area Aquifer Zone
SRW 6	NA	NA	M-Area Aquifer Zone
SRW 9	200.2	201.3	M-Area Aquifer Zone
SRW 12C	192.0	191.4	M-Area Aquifer Zone
SRW 13C	207.8	207.2	M-Area Aquifer Zone
SRW 15C	210.8	210.0	M-Area Aquifer Zone
SRW 16B	213.1	212.0	M-Area Aquifer Zone
SRW 16C	213.4	212.6	M-Area Aquifer Zone
SRW 17DR	NA	NA	M-Area Aquifer Zone
SRW 18	NA	NA	M-Area Aquifer Zone

Green Clay Confining Zone

Well Name	1Q00	2Q00	Aquifer Name
ASB 1A	235.9	NA	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 43D	229.9	229.0	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 54D	231.8	230.9	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 55D	233.0	NA	M-Area Aquifer Zone / Green Clay Confining Zone
MSB 78DR	221.6	221.2	M-Area Aquifer Zone / Green Clay Confining Zone

**M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake
Aquifer Zone**

Well Name	1Q00	2Q00	Aquifer Name
ARP 1A	NA	NA	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 2	218.0	216.7	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 3	220.5	212.3	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 4	218.0	216.8	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
ARP 5D	NA	NA	M-Area Aquifer Zone / Green Clay Confining Zone / Upper Lost Lake Aquifer Zone
MSB 17B	224.4	223.6	Green Clay Confining Zone

Upper Lost Lake Aquifer Zone

Well Name	1Q00	2Q00	Aquifer Name
ABP 8C	195.9	194.4	Upper Lost Lake Aquifer Zone
AC 1A	NA	NA	Upper Lost Lake Aquifer Zone
AC 3A	209.5	208.5	Upper Lost Lake Aquifer Zone
AMB 11B	220.7	220.8	Upper Lost Lake Aquifer Zone
AMB 18C	229.7	229.1	Upper Lost Lake Aquifer Zone
AMB 19C	327.3	226.4	Upper Lost Lake Aquifer Zone
ASB 6C	221.7	220.5	Upper Lost Lake Aquifer Zone
ASB 8C	218.5	217.4	Upper Lost Lake Aquifer Zone
ASB 9C	219.8	218.5	Upper Lost Lake Aquifer Zone
MCB 5C	194.3	192.8	Upper Lost Lake Aquifer Zone
MCB 6C	194.9	193.5	Upper Lost Lake Aquifer Zone
MCB 7C	193.4	191.9	Upper Lost Lake Aquifer Zone
MSB 1C	214.4	214.2	Upper Lost Lake Aquifer Zone
MSB 2C	215.5	215.3	Upper Lost Lake Aquifer Zone
MSB 3C	217.2	216.7	Upper Lost Lake Aquifer Zone
MSB 4C	213.0	212.9	Upper Lost Lake Aquifer Zone
MSB 5C	221.6	220.6	Upper Lost Lake Aquifer Zone
MSB 6C	222.2	221.3	Upper Lost Lake Aquifer Zone
MSB 7C	221.3	220.3	Upper Lost Lake Aquifer Zone
MSB 8C	218.7	211.7	Upper Lost Lake Aquifer Zone
MSB 11C	217.7	217.0	Upper Lost Lake Aquifer Zone
MSB 12B	216.5	215.6	Upper Lost Lake Aquifer Zone
MSB 13CC	223.4	222.2	Upper Lost Lake Aquifer Zone
MSB 15A	217.8	217.1	Upper Lost Lake Aquifer Zone
MSB 16A	217.0	215.9	Upper Lost Lake Aquifer Zone
MSB 18A	211.1	210.2	Upper Lost Lake Aquifer Zone
MSB 20A	NA	216.2	Upper Lost Lake Aquifer Zone
MSB 23B	220.4	NA	Upper Lost Lake Aquifer Zone
MSB 24A	222.7	221.7	Upper Lost Lake Aquifer Zone
MSB 27B	224.7	222.1	Upper Lost Lake Aquifer Zone
MSB 28A	222.1	221.0	Upper Lost Lake Aquifer Zone
MSB 29C	228.4	227.6	Upper Lost Lake Aquifer Zone
MSB 30CC	223.4	222.5	Upper Lost Lake Aquifer Zone
MSB 31CC	212.4	210.3	Upper Lost Lake Aquifer Zone
MSB 32C	215.5	214.8	Upper Lost Lake Aquifer Zone
MSB 33C	210.2	209.7	Upper Lost Lake Aquifer Zone
MSB 34B	226.5	223.6	Upper Lost Lake Aquifer Zone
MSB 35B	217.6	216.5	Upper Lost Lake Aquifer Zone
MSB 36C	213.3	212.0	Upper Lost Lake Aquifer Zone
MSB 39C	213.6	213.1	Upper Lost Lake Aquifer Zone
MSB 40C	203.4	203.5	Upper Lost Lake Aquifer Zone
MSB 42C	228.5	229.5	Upper Lost Lake Aquifer Zone
MSB 43B	227.8	226.9	Upper Lost Lake Aquifer Zone

Upper Lost Lake Aquifer Zone (cont.)

Well Name	1Q00	2Q00	Aquifer Name
MSB 45B	223.0	221.9	Upper Lost Lake Aquifer Zone
MSB 46B	226.1	225.9	Upper Lost Lake Aquifer Zone
MSB 47C	230.7	229.7	Upper Lost Lake Aquifer Zone
MSB 48C	223.0	222.1	Upper Lost Lake Aquifer Zone
MSB 50D	NA	NA	Upper Lost Lake Aquifer Zone
MSB 53C	221.3	231.4	Upper Lost Lake Aquifer Zone
MSB 55HC	231.5	230.6	Upper Lost Lake Aquifer Zone
MSB 62C	222.8	220.8	Upper Lost Lake Aquifer Zone
MSB 63C	219.0	218.3	Upper Lost Lake Aquifer Zone
MSB 64C	192.3	220.4	Upper Lost Lake Aquifer Zone
MSB 70C	216.7	218.8	Upper Lost Lake Aquifer Zone
MSB 74C	210.0	209.0	Upper Lost Lake Aquifer Zone
MSB 75C	208.6	207.8	Upper Lost Lake Aquifer Zone
MSB 76C	219.2	218.7	Upper Lost Lake Aquifer Zone
MSB 77C	222.0	221.3	Upper Lost Lake Aquifer Zone
MSB 79C	208.5	207.7	Upper Lost Lake Aquifer Zone
MSB 87B	316.9	210.4	Upper Lost Lake Aquifer Zone
SRW 2B	205.8	NA	Upper Lost Lake Aquifer Zone
SRW 13B	201.4	200.4	Upper Lost Lake Aquifer Zone
SRW 14B	203.6	202.3	Upper Lost Lake Aquifer Zone
SRW 15B	207.7	206.6	Upper Lost Lake Aquifer Zone

Lower Lost Lake Aquifer Zone

Well Name	1Q00	2Q00	Aquifer Name
ABP 3C	196.5	195.1	Lower Lost Lake Aquifer Zone
AC 2A	219.1	218.2	Lower Lost Lake Aquifer Zone
AMB 4B	222.6	221.2	Lower Lost Lake Aquifer Zone
AMB 7B	222.4	221.2	Lower Lost Lake Aquifer Zone
AMB 10B	221.3	220.0	Lower Lost Lake Aquifer Zone
ASB 2CR	221.5	219.5	Lower Lost Lake Aquifer Zone
ASB 3CR	221.3	218.9	Lower Lost Lake Aquifer Zone
ASB 5C	220.3	219.3	Lower Lost Lake Aquifer Zone
ASB 9B	219.4	218.1	Lower Lost Lake Aquifer Zone
ASB 10CR	221.4	219.2	Lower Lost Lake Aquifer Zone
MSB 1B	208.1	207.3	Lower Lost Lake Aquifer Zone
MSB 2B	209.3	209.1	Lower Lost Lake Aquifer Zone
MSB 3B	NA	NA	Lower Lost Lake Aquifer Zone
MSB 4B	206.6	206.1	Lower Lost Lake Aquifer Zone
MSB 5B	206.4	205.3	Lower Lost Lake Aquifer Zone
MSB 6B	205.1	204.3	Lower Lost Lake Aquifer Zone
MSB 7B	205.7	204.8	Lower Lost Lake Aquifer Zone
MSB 8B	207.1	209.1	Lower Lost Lake Aquifer Zone
MSB 9A	208.7	207.9	Lower Lost Lake Aquifer Zone
MSB 10B	209.9	210.7	Lower Lost Lake Aquifer Zone
MSB 11A	210.7	209.6	Lower Lost Lake Aquifer Zone
MSB 12A	207.9	205.8	Lower Lost Lake Aquifer Zone
MSB 13A	211.0	205.1	Lower Lost Lake Aquifer Zone
MSB 15AA	211.5	210.5	Lower Lost Lake Aquifer Zone
MSB 17BB	211.0	210.2	Lower Lost Lake Aquifer Zone
MSB 19B	215.1	214.2	Lower Lost Lake Aquifer Zone
MSB 21B	218.5	217.6	Lower Lost Lake Aquifer Zone
MSB 25A	213.8	212.4	Lower Lost Lake Aquifer Zone
MSB 26B	216.8	215.6	Lower Lost Lake Aquifer Zone
MSB 29B	222.4	221.4	Lower Lost Lake Aquifer Zone
MSB 30B	223.4	222.6	Lower Lost Lake Aquifer Zone
MSB 31B	212.4	210.0	Lower Lost Lake Aquifer Zone
MSB 32B	210.7	210.0	Lower Lost Lake Aquifer Zone
MSB 33B	206.9	206.3	Lower Lost Lake Aquifer Zone
MSB 34A	217.1	215.3	Lower Lost Lake Aquifer Zone
MSB 36B	213.2	212.0	Lower Lost Lake Aquifer Zone
MSB 37C	226.2	224.9	Lower Lost Lake Aquifer Zone
MSB 38C	220.0	215.5	Lower Lost Lake Aquifer Zone
MSB 39B	212.4	209.5	Lower Lost Lake Aquifer Zone
MSB 40B	203.5	202.7	Lower Lost Lake Aquifer Zone

Lower Lost Lake Aquifer Zone (Cont.)

Well Name	1Q00	2Q00	Aquifer Name
MSB 41C	216.4	215.7	Lower Lost Lake Aquifer Zone
MSB 42B	223.3	224.0	Lower Lost Lake Aquifer Zone
MSB 43A	227.6	226.7	Lower Lost Lake Aquifer Zone
MSB 45A	216.2	212.8	Lower Lost Lake Aquifer Zone
MSB 47B	223.1	222.0	Lower Lost Lake Aquifer Zone
MSB 48B	222.5	221.6	Lower Lost Lake Aquifer Zone
MSB 49B	202.5	201.3	Lower Lost Lake Aquifer Zone
MSB 50B	202.1	201.4	Lower Lost Lake Aquifer Zone
MSB 51B	204.4	203.7	Lower Lost Lake Aquifer Zone
MSB 52B	218.4	217.0	Lower Lost Lake Aquifer Zone
MSB 53B	220.6	219.8	Lower Lost Lake Aquifer Zone
MSB 54C	225.2	224.2	Lower Lost Lake Aquifer Zone
MSB 55C	227.9	226.9	Lower Lost Lake Aquifer Zone
MSB 62B	212.8	206.6	Lower Lost Lake Aquifer Zone
MSB 63B	207.4	206.8	Lower Lost Lake Aquifer Zone
MSB 64B	206.7	205.6	Lower Lost Lake Aquifer Zone
MSB 66C	226.8	225.7	Lower Lost Lake Aquifer Zone
MSB 68C	222.9	221.8	Lower Lost Lake Aquifer Zone
MSB 69C	225.9	224.9	Lower Lost Lake Aquifer Zone
MSB 71B	215.8	215.0	Lower Lost Lake Aquifer Zone
MSB 72B	199.1	198.5	Lower Lost Lake Aquifer Zone
MSB 73B	200.5	194.8	Lower Lost Lake Aquifer Zone
MSB 74B	210.1	209.3	Lower Lost Lake Aquifer Zone
MSB 75B	208.8	207.8	Lower Lost Lake Aquifer Zone
MSB 77B	220.0	219.0	Lower Lost Lake Aquifer Zone
MSB 79B	206.3	205.3	Lower Lost Lake Aquifer Zone
MSB 81B	219.1	218.2	Lower Lost Lake Aquifer Zone
MSB 82C	226.3	225.2	Lower Lost Lake Aquifer Zone
MSB 83C	226.9	225.8	Lower Lost Lake Aquifer Zone
MSB 84C	228.6	227.6	Lower Lost Lake Aquifer Zone
MSB 85C	223.0	222.1	Lower Lost Lake Aquifer Zone
MSB 86C	223.9	223.2	Lower Lost Lake Aquifer Zone
MSB 88C	202.9	202.6	Lower Lost Lake Aquifer Zone
MSB 89B	206.2	205.5	Lower Lost Lake Aquifer Zone
SRW 3BB	206.8	205.7	Lower Lost Lake Aquifer Zone
SRW 9A	196.8	195.7	Lower Lost Lake Aquifer Zone
SRW 11BB	203.7	202.7	Lower Lost Lake Aquifer Zone
SRW 13A	199.6	198.5	Lower Lost Lake Aquifer Zone
SRW 16A	212.5	211.2	Lower Lost Lake Aquifer Zone

Middle Sand Aquifer Zone-Crouch Branch Confining Unit

Well Name	1Q00	2Q00	Aquifer Name
AMB 4A	217.2	216.2	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 7A	217.1	216.0	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 10A	216.7	215.3	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 13AR	217.0	225.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 17A	216.8	216.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
AMB 18A	216.8	215.6	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
ASB 6AA	216.7	216.5	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
ASB 8B	211.0	210.0	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 10A	209.0	208.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 19A	NA	NA	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 29A	218.0	217.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 30AA	222.5	221.6	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 33A	204.1	203.7	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 35A	215.0	214.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 36A	209.4	207.9	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 37B	217.9	216.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 39A	207.8	206.7	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 40A	202.1	201.2	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 41B	216.1	215.3	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 42A	217.2	217.7	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 44A	215.9	215.0	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 46A	214.2	212.7	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 48A	221.1	220.1	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 49A	196.5	195.4	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 54B	220.9	219.8	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 55B	220.5	219.5	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 66B	217.3	216.2	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 68B	217.2	216.2	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 69B	219.2	218.2	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 82A	213.1	218.4	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 83B	220.5	219.6	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 84A	197.0	217.9	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
MSB 85B	219.9	218.9	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 2A	204.6	203.6	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 14A	201.6	200.2	Middle Sand Aquifer Zone-Crouch Branch Confining Unit
SRW 15A	207.4	206.4	Middle Sand Aquifer Zone-Crouch Branch Confining Unit

Upper Clay Confining Zone - Crouch Branch Confining Unit

Well Name	1Q00	2Q00	Aquifer Name
MSB 82B	218.4	217.3	Upper Clay Confining Zone - Crouch Branch Confining Unit

Crouch Branch Aquifer Unit

Well Name	1Q00	2Q00	Aquifer Name
ASB 6TA	212.5	211.7	Crouch Branch Aquifer Unit
ASB 8TA	214.3	213.3	Crouch Branch Aquifer Unit
MSB 12TA	191.8	190.4	Crouch Branch Aquifer Unit
MSB 21TA	193.3	192.0	Crouch Branch Aquifer Unit
MSB 23TA	199.8	198.8	Crouch Branch Aquifer Unit
MSB 27TA	199.5	198.5	Crouch Branch Aquifer Unit
MSB 29TA	210.9	209.9	Crouch Branch Aquifer Unit
MSB 30A	197.1	196.2	Crouch Branch Aquifer Unit
MSB 31A	197.4	195.7	Crouch Branch Aquifer Unit
MSB 33TA	195.2	193.7	Crouch Branch Aquifer Unit
MSB 34TA	200.9	199.7	Crouch Branch Aquifer Unit
MSB 35TA	198.7	197.5	Crouch Branch Aquifer Unit
MSB 36TA	193.9	193.0	Crouch Branch Aquifer Unit
MSB 37A	NA	204.7	Crouch Branch Aquifer Unit
MSB 37TA	205.6	204.6	Crouch Branch Aquifer Unit
MSB 38TA	197.4	195.6	Crouch Branch Aquifer Unit
MSB 39TA	191.9	190.8	Crouch Branch Aquifer Unit
MSB 40TA	189.5	188.1	Crouch Branch Aquifer Unit
MSB 41TA	206.0	204.7	Crouch Branch Aquifer Unit
MSB 42TA	203.7	205.0	Crouch Branch Aquifer Unit
MSB 43TA	201.5	200.9	Crouch Branch Aquifer Unit
MSB 47TA	214.7	213.8	Crouch Branch Aquifer Unit
MSB 48TA	221.0	220.0	Crouch Branch Aquifer Unit
MSB 54TA	218.4	217.4	Crouch Branch Aquifer Unit
MSB 55TA	213.0	212.1	Crouch Branch Aquifer Unit
MSB 66TA	204.2	204.2	Crouch Branch Aquifer Unit
MSB 69TA	214.0	213.2	Crouch Branch Aquifer Unit
MSB 82TA	213.0	212.1	Crouch Branch Aquifer Unit
MSB 83TA	214.5	213.5	Crouch Branch Aquifer Unit
MSB 85TA	219.4	218.3	Crouch Branch Aquifer Unit
SRW 12A	192.0	190.5	Crouch Branch Confining Unit

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Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF
WELL MSB 1B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101833 E 48483.2	33.33008 Deg N -81.7370 Deg W	142.6 - 137.9 ft msl	354.8 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/26/98 02/18/99 09/16/99 02/16/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	208.05	208.86	214.6	211.1	ft msl
pH	5.4	5	5.3		pH
Sp. Conductance	37	43	42		uS/cm
Water temperature	19.6	19.3	19.4		deg. C
Alkalinity as CaCO3			1		mg/L
Turbidity	.4	.2	.3		NTU
Volumes purged	2.75	2.46	2.73	.794	well volume
Sampling code					
Synchronous water level	210.5 (09/21/98)	212.1 (03/29/99)	209.1 (09/21/99)	208.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	15.8		<10	U	14.4		46		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	JU Q					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	10.5	J I	NDD	1	ug/L	ML
	Nickel, total recoverable	11.2	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	UJ	<50	U	<250	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<50	UJ	<50	U	<250	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<50	UJ	<50	U	<250	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	UJ	<50	U	<250	U					ug/L	
	PCB 1016					<1.9	U					ug/L	
	PCB 1221					<1.9	U					ug/L	
	PCB 1232					<.94	U					ug/L	
	PCB 1242					<.94	U					ug/L	
	PCB 1248					<.94	U					ug/L	
	PCB 1254					<.94	U					ug/L	
	PCB 1260					<.94	U					ug/L	
	1,1,2,2-Tetrachloroethane	<50	UJ	<50	U	<250	U	<10	U	< EQL	10	ug/L	ML
	Tetrachloroethylene	<50	UJ	<50	U	<250	U	10.3	J K	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<50	UJ	<50	U	<250	U	<10	U	< EQL	10	ug/L	ML
	Trichloroethylene	1240	J	1200		1700		1690	J K	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	272		<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1860		2420		2240		3120		> 2400	5	ug/L	EX
	Sodium, total recoverable	2480		2620		2640		2890		< 4600	1	ug/L	EX
	Sulfate	264	J	384	J	315	J	243		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.985		-.35	U	2.02		1.36	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.17		-1.04	UIJ	1.91		1.26	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.5	UI	.88	UIJ	.41		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 1C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101832.5 E 48512.7	33.33013 Deg N -81.7369 Deg W	166 - 161.3 ft msl	355.1 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/26/98	02/18/99	09/16/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	215.05	215.85	217.72	214.52	ft msl
pH	10.8	10.9	11.1	10	pH
Sp. Conductance	630	650	668	207	uS/cm
Water temperature	23.1	17.9	24.3	17.5	deg. C
Alkalinity as CaCO ₃		79	112	32	mg/L
Turbidity	.5	.3	.4	.6	NTU
Volumes purged	.028	.028	0	0	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	216.2 (09/21/98)	216.3 (03/29/99)	215.5 (09/21/99)	214.4 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	55.9		<10	U	44.5		5.13	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	14.9	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	UJ	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethane	<25	UJ	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethylene	<25	UJ	<25	U	3.97		3.76	J K	NDD	2	ug/L	ML
	trans-1,2-Dichloroethylene	<25	UJ	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	UJ	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	Tetrachloroethylene	436	J	377		349		304	J K	NDD	2	ug/L	ML
	1,1,1-Trichloroethane	<25	UJ	<25	U	.69	J I	<2	U	< EQL	2	ug/L	ML
	Trichloroethylene	215	J	161		136		152	J K	NDD	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	560		73.6		1770		1820		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	14900		17100		11700		9410		> 2400	5	ug/L	EX
+	Sodium, total recoverable	24800		19200		22600		18700		> 4600	1	ug/L	EX
	Sulfate	3630		2260		2750		2870		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.65		1.24		2.91		.939	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	5.59		4.09	J	10.9		5.97	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5	UI	2.16	J	.72		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 1D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101833.4 E 48452.2	33.33003 Deg N -81.7371 Deg W	229.8 - 210.4 ft msl	354.8 ft msl	4 " PVC	S	M
SAMPLE DATE	08/26/98	02/18/99	08/17/99	03/27/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	229.7	230.31	229.85	228.67	ft msl	
pH	5.5	4.9	5.5	5.4	pH	
Sp. Conductance	45	45	40	39	uS/cm	
Water temperature	20.4	19.6	23.2	21.5	deg. C	
Alkalinity as CaCO3		1	2	2	mg/L	
Turbidity	.6	.3	1.5	5.1	NTU	
Volumes purged	3.35	2.71	2.93	4.89	well volume	
Sampling code				NX		
Synchronous water level	230 (09/21/98)	230.1 (03/29/99)	229.6 (09/21/99)	228.5 (03/21/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14.3		<10	U	14		13.8	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<5.2	U V	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<100	U	<5.83	JU V	< EQL	1	ug/L	ML
	Nickel, total recoverable	10.9	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016			<2	U	<2	U	<.971	JU Q	< EQL	1	ug/L	ML
	PCB 1221			<2	U	<2	U	<.971	JU Q	< EQL	1	ug/L	ML
	PCB 1232			<1	U	<.98	U	<.971	JU Q	< EQL	1	ug/L	ML
	PCB 1242			<1	U	<.98	U	<.971	JU Q	< EQL	1	ug/L	ML
	PCB 1248			<1	U	<.98	U	<.971	JU Q	< EQL	1	ug/L	ML
	PCB 1254			<1	U	<.98	U	<.971	JU Q	< EQL	1	ug/L	ML
	PCB 1260			<1	U	<.98	U	<.971	JU Q	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	17.6	J	11.9		6		17.8		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	5.9	J	3.09	J I	3.8	J I	17.3		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	48		13.1	J	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	2620		2550		2290		2490		> 2400	1	ug/L	EX
	Sodium, total recoverable	4920		4470		5320		4100		< 4600	1	ug/L	EX
	Sulfate	760	J	<5000	U	192	J	278		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.38		.7	UI	11		5.84		< 15	1	pCi/L	GP
	Nonvolatile beta	1.98		22.8	J	7.29		2.63		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.1	UI	.95	UI	2.41		1.4		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 2B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101997.9 E 48748.2	33.33088 Deg N -81.7366 Deg W	150.3 - 145.6 ft msl	354.6 ft msl	4 " PVC	S	LL
SAMPLE DATE		08/26/98	02/18/99	08/09/99	02/28/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	209.8	210.34	211.1	209.45	ft msl	
pH		11.5	11.6	9.9	pH	
Sp. Conductance		2900	3038	3740	uS/cm	
Water temperature		18.8	24.5	18.1	deg. C	
Alkalinity as CaCO3		439	66	771	mg/L	
Turbidity		.5	.7	.6	NTU	
Volumes purged	.024	.024	.023	0	well volume	
Sampling code	NP	X	NX	NX		
Synchronous water level	210.4 (09/21/98)	211.9 (03/29/99)	211 (09/21/99)	209.3 (03/21/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	319		<10	U	430		115		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<4.24	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<4.7	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<250	U	<250	U	<1.07	JU V	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<250	U	<1	JU	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<250	U	3.27	J	<50	U	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<250	U	3.01	J					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<250	U	<1	JU	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	6910		9650		9010		13500	J K	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<250	U	4.47	J	<50	U	< EQL	50	ug/L	ML
	Trichloroethylene	8970		11200		10900		16800	J K	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	1100		798		1030		1100		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	5840		5540		4340		5250		> 2400	5	ug/L	EX
+	Sodium, total recoverable	35000		31400		53700		61000		> 4600	1	ug/L	EX
	Sulfate	1720		<5000	U	1660		1780		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	6.6		.65	UI	9.79		7.09		< 15	1	pCi/L	GP
	Nonvolatile beta	45.6		58.8		59.46		36.6		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.7		1.72	UI	3.35		3.1		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 2C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>		<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101982.5 E 48749.3	33.33085 Deg N -81.7366 Deg W	194.7 - 190	ft msl	354.7 ft msl	4 " PVC	S	UL
SAMPLE DATE		08/26/98	02/18/99	08/09/99	02/28/00		
FIELD DATA							
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>		
Water Elevation	216.35	217.13	216.9	215.68	ft msl		
pH	11	11.3	8.1	10.4	pH		
Sp. Conductance	900	1100	190	940	uS/cm		
Water temperature	20.8	20	24.6	17.5	deg. C		
Alkalinity as CaCO3		141	18	168	mg/L		
Turbidity	3.2	1	.5	1.7	NTU		
Volumes purged	.058	.057	2.34	0	well volume		
Sampling code	NX	X		NX			
Synchronous water level	217.4 (09/21/98)	217.2 (03/29/99)	216.8 (09/21/99)	215.5 (03/21/00)	ft msl		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	99.3		<10	U	62		20.8		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	9.66	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<1250	UJ	<1250	U	4.68	J K	<100	U	< EQL	100	ug/L	ML
	1,1-Dichloroethane	<1250	UJ	<1250	U	<1	U	<100	U	< EQL	100	ug/L	ML
	1,1-Dichloroethylene	<1250	UJ	<1250	U	.92	J IK	<100	U	< EQL	100	ug/L	ML
	trans-1,2-Dichloroethylene	<1250	UJ	<1250	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1250	UJ	<1250	U	12.6	J K	<100	U	< EQL	100	ug/L	ML
	Tetrachloroethylene	26900	J	24700		57400		22200	J K	NDD	100	ug/L	ML
	1,1,1-Trichloroethane	<1250	UJ	<1250	U	<1	U	<100	U	< EQL	100	ug/L	ML
	Trichloroethylene	25500	J	18300		44500		14200	J K	NDD	100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	494		194		727		<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	10800		11000		7830		15300		> 2400	5	ug/L	EX
+	Sodium, total recoverable	20900		13000		20300		13000		> 4600	1	ug/L	EX
	Sulfate	1290		<5000	U	811		337		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.06		.9	UI	6.05		3.31		< 15	1	pCi/L	GP
	Nonvolatile beta	13.2		4.01		11.74		4.37		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.8		4.66	J	1.65		3.7		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 2D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102014 E 48755.7	33.33093 Deg N -81.7366 Deg W	230.1 - 210.7 ft msl	353.8 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/01/98	02/09/99	08/31/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.3	230.9	229.97	229.04	ft msl
pH	5.3	4.7	4.6	5.5	pH
Sp. Conductance	52	41	39	36	uS/cm
Water temperature	24.9	18.4	18.7	18.6	deg. C
Alkalinity as CaCO ₃	1		0	2	mg/L
Turbidity	3.2	1.4	1	1.3	NTU
Volumes purged	.079	2.52	3.04	2.27	well volume
Sampling code	NX				
Synchronous water level	230.8 (09/21/98)	230.7 (03/29/99)	229.9 (09/21/99)	229 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.5		<10	U	14		12	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<3.33	UJ	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<125	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethane	<5	U	<125	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethylene	<5	U	<125	U	1.94	J K	1.34	J IK	NDD	2	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<125	U	<1	U					ug/L	
	PCB 1016	<2	U	<2	U	<2	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2	U	<2	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<1	U	<.99	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<1	U	<.99	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<1	U	<.99	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<1	U	<.99	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<1	U	<.99	U	<1	JU	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<5	U	<125	U	<1	U	<2	U	< EQL	2	ug/L	ML
	Tetrachloroethylene	137		272		507		599	J K	NDD	2	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<125	U	14.5	J K	20.6	J K	NDD	2	ug/L	ML
	Trichloroethylene	69.7		98.9	J I	99.8	J K	84.8	J K	NDD	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	285		224		710		115	J I	NDD	1	ug/L	WA
+	Nitrate-nitrite as nitrogen	4120		3370		1800		2450		> 2400	5	ug/L	EX
	Sodium, total recoverable	2500		2050		2480		2100		< 4600	1	ug/L	EX
	Sulfate	118	J	<5000	U	246	J	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	13.5		.48	UI	14.6		7.49		< 15	1	pCi/L	GP
	Nonvolatile beta	5.81		-1.26	UI	15.36		2.83	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	8.9		3.95	UI	3.14		4.9		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 3B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102191.7 E 48568	33.33101 Deg N -81.7375 Deg W	145.8 - 141.1 ft msl	361 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/10/98	02/24/99	08/09/99	02/28/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	Not Available	Not Available	Not Available	Not Available	ft msl
pH	6.5	5.3	6.7	7.2	pH
Sp. Conductance	67	34	57	65	uS/cm
Water temperature	21	18.1	22.1	18.8	deg. C
Alkalinity as CaCO3	15	11	16	8	mg/L
Turbidity	.3	1	.4	.9	NTU
Volumes purged					well volume
Sampling code	S				
Synchronous water level	()	()	()	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	20.6		17.2		20		<15	U	< EQL	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<5.8	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<8.7	JU I	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<3.7	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<125	U	<1	U					ug/L	
	PCB 1016	<2	U									ug/L	
	PCB 1221	<2	U									ug/L	
	PCB 1232	<1	U									ug/L	
	PCB 1242	<1	U									ug/L	
	PCB 1248	<1	U									ug/L	
	PCB 1254	<1	U									ug/L	
	PCB 1260	<1	U									ug/L	
	1,1,2,2-Tetrachloroethane	<50	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	Tetrachloroethylene	414		894		376		551	J K	NDD	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	Trichloroethylene	1770		3260		1290		1730	J K	NDD	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable			<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen			1370		1340		1130		< 2400	5	ug/L	EX
	Sodium, total recoverable			2240		2760		2600		< 4600	1	ug/L	EX
	Sulfate			779	J	706		443		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha			.12	U	1.21		.6	J I	NDD	1	pCi/L	GP
	Nonvolatile beta			2.49	J	1.42		1.39	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting			.93	UIJ	.25	UI	.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 3C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102189.6 E 48538.5	33.33096 Deg N -81.7375 Deg W	193.7 - 189 ft msl	360.8 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/26/98	02/24/99	08/09/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	217.8	218.02	218.3	217.3	ft msl
pH	11.4	11.2	11.4	9	pH
Sp. Conductance	2400	1600	1797	1852	uS/cm
Water temperature	22	14.4	28.4	19.1	deg. C
Alkalinity as CaCO3	22	409	352	380	mg/L
Turbidity	2.7	.9	.8	1	NTU
Volumes purged	.053	.053	0	0	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	218.7 (09/21/98)	218.6 (03/29/99)	218.2 (09/21/99)	217.2 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	486		424		260		149		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	68	J	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	11.8	J	<6.92	JU	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<1250	UJ	<2500	U	4.34	J K	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethane	<1250	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<1250	UJ	<2500	U	5.48	J K	<200	U	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<1250	UJ	<2500	U	32	J K					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1250	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	Tetrachloroethylene	35300	J	61800		48900		45800	J K	NDD	200	ug/L	ML
	1,1,1-Trichloroethane	<1250	UJ	<2500	U	4.03	J K	<200	U	< EQL	200	ug/L	ML
	Trichloroethylene	18700	J	23400		16900		17200	J K	NDD	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	2890		3850		3330		3400		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2340		3400		2300		2210		< 2400	5	ug/L	EX
+	Sodium, total recoverable	50600		50100		37700		20000		> 4600	1	ug/L	EX
	Sulfate	2600		2640	J	1250		1140		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.61		13.1		9.18		2.9		< 15	1	pCi/L	GP
	Nonvolatile beta	59.2		356	J	64.48		24.9		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.6	J	2.82	UI	1.89		2.2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 4B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101978.3 E 48312.8	33.33013 Deg N -81.7377 Deg W	143.1 - 138.4 ft msl	355.3 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/26/98	02/23/99	08/09/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	206.55	206.79	208.37	206.7	ft msl
pH	5.2	4.7	4.9	6.1	pH
Sp. Conductance	26	19	27	26	uS/cm
Water temperature	20.4	19.2	21.9	19.1	deg. C
Alkalinity as CaCO3		1	1	6	mg/L
Turbidity	.9	.3	.5	.4	NTU
Volumes purged	2.42	2.55	3.32	2.42	well volume
Sampling code					
Synchronous water level	210.9 (09/21/98)	212.5 (03/29/99)	208.3 (09/21/99)	206.6 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.54	J	6.99	J I	5.7	J I	<15	U	< EQL	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<4.96	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	12.4	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<4.2	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<50	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<50	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	UJ	<125	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	Tetrachloroethylene	65.8	J	142		62.1		62.7	J K	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<50	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	Trichloroethylene	1190	J	2200		829		1120	J K	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1480		736		1110		1200		< 2400	5	ug/L	EX
	Sodium, total recoverable	1890		2160		2190		2000		< 4600	1	ug/L	EX
	Sulfate	599	J	<5000	U	569		548		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.3		.15	UI	1.61		.0354	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.69		-2.42	UIJ	3.06		2.06	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		.92	UI	.33		.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 4C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101963.2 E 48313.6	33.33009 Deg N -81.7377 Deg W	168.1 - 163.3 ft msl	355.2 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/26/98	02/23/99	08/09/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	213.38	213.64	214.15	213.12	ft msl
pH	9.9	5.2	5.7	8.9	pH
Sp. Conductance	230	120	198	415	uS/cm
Water temperature	21.5	19.1	22.7	19.2	deg. C
Alkalinity as CaCO3	28	3	4	32	mg/L
Turbidity	2	.5	.4	.7	NTU
Volumes purged	.031	2.34	2.50	0	well volume
Sampling code	NX			NX	
Synchronous water level	216.2 (09/21/98)	216.5 (03/29/99)	214.1 (09/21/99)	213 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	119		72.3		65		142		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U			< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	13.3	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<500	UJ	<500	U	<1.06	JU KV	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<500	UJ	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<500	UJ	<500	U	6.79	J K	<50	U	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<500	UJ	<500	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	UJ	<500	U	1.54	J K	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	8240	J	9280		9590		7050	J K	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<500	UJ	<500	U	.7	J IK	<50	U	< EQL	50	ug/L	ML
	Trichloroethylene	10600	J	10600		11300		10300	J K	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	17.9	J	45.9		<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	19400		29700		17700		18800		> 2400	5	ug/L	EX
+	Sodium, total recoverable	12800		12900		16800		15000		> 4600	1	ug/L	EX
	Sulfate	91	J	<5000	U	292	J	239		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	9.06		.37	UI	10.78		2.93		< 15	1	pCi/L	GP
	Nonvolatile beta	8.65		2.02	UI	25.95		7.03		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	3.9		3.46	UI	2.1		2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102007.5 E 48311.7	33.33019 Deg N -81.7378 Deg W	228.4 - 209 ft msl	355.5 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/31/98	02/23/99	08/09/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.6	229.3	229	227.85	ft msl
pH	4.9	4.6	5.1	5.4	pH
Sp. Conductance	58	50	58	53	uS/cm
Water temperature	20.1	19.2	22.9	19.3	deg. C
Alkalinity as CaCO3			0	2	mg/L
Turbidity	2.5	.3	.4	.9	NTU
Volumes purged	5.45	3.81	4.02	3.45	well volume
Sampling code					
Synchronous water level	229.2 (09/21/98)	229.3 (03/29/99)	228.9 (09/21/99)	227.7 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.7		13.9		17		5.55	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	8.2	J IL	NDD	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016	<2	U	<2	U	<2	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2	U	<2	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<1	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<1	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<1	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<1	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<1	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	79.3		86.1		68.7		53.5	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	80.5		107		104		85.6	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	159		153		111	J	130	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4280		2060		2570		4520		> 2400	5	ug/L	EX
	Sodium, total recoverable	4480		3830		3730		4400		< 4600	1	ug/L	EX
	Sulfate	1440		<5000	U	1480	J	1540		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	8.91		1.42		10.82		4.79		< 15	1	pCi/L	GP
	Nonvolatile beta	4.67		.04	UI	10.94	J	4.46		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	5.5		4.74	UI	1.41		4.4		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 5A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101971.5 E 46998.7	33.32796 Deg N -81.7412 Deg W	247.2 - 217.2 ft msl	344.6 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/27/98	02/09/99	08/31/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	227.1	227.12	226.3	ft msl
pH	5.6	5.6	5.3	4.5	pH
Sp. Conductance	36	30	27	27	uS/cm
Water temperature	22.3	18.8	18.9	18.7	deg. C
Alkalinity as CaCO3	3	3	1	0	mg/L
Turbidity	1.1	.2	.8	.6	NTU
Volumes purged		7.23	4.39	4.80	well volume
Sampling code	S				
Synchronous water level	()	227.2 (03/29/99)	227.1 (09/21/99)	226.2 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.33	J	<10	U	<10	U	<15	U	< EQL	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<9.84	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	26.2	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	11.1	J	<5	U	.69	J IK	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	21.7	J	3.12	J IL	.73	J IK	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	9	J	99.9	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2220		2930		1530		1290		< 2400	5	ug/L	EX
	Sodium, total recoverable	4420		4670		5550		3700		< 4600	1	ug/L	EX
	Sulfate	358	J	<5000	U	822		701		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	2.81		1.46		1.47		1.29	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.41		.003	UI	1.04	UI	1.08	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.8	UI	1.35	UI	1.26		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 5B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101971.1 E 46983.6	33.32794 Deg N -81.7412 Deg W	136.1 - 131.4 ft msl	345 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/08/98	02/17/99	08/16/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	206.8	207.5	209.55	206.48	ft msl
pH	5	4.9	5.5	4.5	pH
Sp. Conductance	18	19	20	18	uS/cm
Water temperature	22.2	18.9	20.2	18.4	deg. C
Alkalinity as CaCO3	1	1	2	0	mg/L
Turbidity	.8	.9	.5	.3	NTU
Volumes purged	2.61	2.43	2.48	2.50	well volume
Sampling code					
Synchronous water level	207.6 (09/21/98)	209.3 (03/29/99)	209.5 (09/21/99)	206.4 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.39	J	<10	U	6.4	J I	4.79	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<1.96	U V	<5.36	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	7.25	J	29	J L	5	J K	10.9	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	580		342		253	J	246	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1470		1550		1600		1700		< 4600	1	ug/L	EX
	Sulfate	554	J	<5000	U	568		701		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.465	UI	.11	UI	17.57	J	.254	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.1		-1.2	UI	41.7	J	1.37	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3	UI	.17	UI	.18	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 5C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101970.4 E 46968.6	33.32791 Deg N -81.7412 Deg W	188.1 - 183.4 ft msl	345.2 ft msl	4" PVC	S	UL

<u>SAMPLE DATE</u>	09/08/98	02/17/99	08/16/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.94	222.77	222.93	221.65	ft msl
pH	5	5.1	5.6	5	pH
Sp. Conductance	200	220	232	224	uS/cm
Water temperature	21.9	18.9	20.2	18.6	deg. C
Alkalinity as CaCO3	9	3	3	2	mg/L
Turbidity	.3	.4	.5	.5	NTU
Volumes purged	3.38	3.58	2.79	3.08	well volume
Sampling code					
Synchronous water level	222 (09/21/98)	223 (03/29/99)	222.9 (09/21/99)	221.6 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	38.8		<10	U	41		39		< 2000	1	ug/L	ML
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<1.71	U V	<11.1	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<66	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	2.85	J	<5	U	2.85	J K	2.4		< 5	1	ug/L	ML
+	1,1-Dichloroethylene	49.3	J	39.7		40	J K	36.6		> 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	71.5		148		150	J K	151		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	7.97	J	5.62		5.71	J K	5.16		< 200	1	ug/L	ML
+	Trichloroethylene	65.9		26.6	J L	28.3	J K	28.5		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	44.6		105	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	21500		23700		4410		23300		> 2400	5	ug/L	EX
+	Sodium, total recoverable	27000		24800		25800		31000		> 4600	1	ug/L	EX
	Sulfate	566	J	<5000	U	512		428		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	12.5		2.45	J	7.44	J	3.49	J IL	NDD	1	pCi/L	GP
	Nonvolatile beta	9.24		4.1	J	13.8	J	12.1		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	4.8		4.56	UI	2.85		2.1		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 6A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101133.8 E 46319.9	33.32500 Deg N -81.7413 Deg W	241.9 - 211.9 ft msl	343.8 ft msl	4 " PVC	S	M

SAMPLE DATE	08/28/98	01/07/99	08/25/99	02/03/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	225.7	227.1	227.22	226.42	ft msl
pH	5.6	5.1	5.1	4.5	pH
Sp. Conductance	36	38	37	38	uS/cm
Water temperature	19.6	18.5	19.6	18.3	deg. C
Alkalinity as CaCO3	3	2	1	0	mg/L
Turbidity	.6	1	.4	.6	NTU
Volumes purged	4.04	2.95	5.55	5.22	well volume
Sampling code					
Synchronous water level	226.2 (09/21/98)	227.2 (03/29/99)	227.2 (09/21/99)	226.3 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.87	J	6.46	J I	6.1	J I	6.24	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<15.1	U V	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<3.26	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<94.5	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	730		336		390	J	384	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	5140		5750		5250		6300		> 4600	1	ug/L	EX
	Sulfate	299	J	324	J	711		350	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	.637	UI	-.58	U	3.13		1.46	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.907	UI	-.28	UIJ	1.99		1.02	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.7		3.29	J	1.1		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 6B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101148.5 E 46321.6	33.32504 Deg N -81.7413 Deg W	129.8 - 125.1 ft msl	343.9 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/09/98	02/17/99	08/17/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	205.55	206.47	207	205.23	ft msl
pH	5.3	5.5	5.9	5.3	pH
Sp. Conductance	46	53	50	54	uS/cm
Water temperature	21.3	19.6	21	18.9	deg. C
Alkalinity as CaCO3	3	3	3	2	mg/L
Turbidity	.5	.5	.7	.4	NTU
Volumes purged	2.37	2.84	3.15	2.48	well volume
Sampling code					
Synchronous water level	205.3 (09/21/98)	206.8 (03/29/99)	207 (09/21/99)	205.1 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	19.1		<10	U	18		18.5		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<5.41	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<250	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<250	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<250	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<250	UJ	<125	U	.94	J IK	<10	U	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Tetrachloroethylene	77.5	J	94.3	J I	73.5	J K	91.1		> 5	10	ug/L	ML
	1,1,1-Trichloroethane	<250	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Trichloroethylene	3010	J	2930	J L	2260		2880		> 5	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	157		<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3250		4190		2990		3730		> 2400	5	ug/L	EX
	Sodium, total recoverable	3040		3020		2980		3400		< 4600	1	ug/L	EX
	Sulfate	161	J	<5000	U	436		219	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	5.28		.36	UI	2.51		1.74	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	4.89		.78	UI	4.13		3.95		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.1	UI	2.65	UI	.93		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101169.1 E 46324.1	33.32509 Deg N -81.7414 Deg W	194 - 189.3 ft msl	343.8 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/29/98	02/17/99	08/17/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.3	223.25	223.36	222.35	ft msl
pH		5.3	5.9	5.4	pH
Sp. Conductance		230	224	203	uS/cm
Water temperature		19.5	20.3	19.3	deg. C
Alkalinity as CaCO3		12	20	11	mg/L
Turbidity		.7	2.3	.6	NTU
Volumes purged		4.52	3.15	2.32	well volume
Sampling code	NP				
Synchronous water level	222.4 (09/21/98)	223.3 (03/29/99)	223.3 (09/21/99)	222.2 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			<10	U	4.7	J I	4.59	J I	NDD	1	ug/L	ML
	Cyanide			<10	U	<10	U					ug/L	
	Lead, total recoverable			<100	U	<10	U	<6.13	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable			<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable			<200	U	<4.2	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene			<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane			<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene			<5	U	.62	J IK	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene			58.3		57.8	J K	61.5		> 5	1	ug/L	ML
	1,1,1-Trichloroethane			<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene			11.9	J L	10.9	J K	11.3		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U					<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	40500						14900		> 2400	5	ug/L	EX
+	Sodium, total recoverable	78200						40000		> 4600	1	ug/L	EX
+	Sulfate	5960						16300		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	5.07						.668	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	13.6						6.66		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.1	UI					.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 7A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100585.7 E 46726.1	33.32446 Deg N -81.7392 Deg W	242 - 212 ft msl	344.3 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/28/98	01/07/99	08/25/99	02/03/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	226.02	228.02	228.12	227.42	ft msl
pH	5.2	5	5.1	4.6	pH
Sp. Conductance	38	38	37	40	uS/cm
Water temperature	20.3	18.3	19.7	18.2	deg. C
Alkalinity as CaCO3	1	2	0	0	mg/L
Turbidity	9.8	.5	.5	.7	NTU
Volumes purged	3.00	2.62	3.76	3.23	well volume
Sampling code					
Synchronous water level	227.3 (09/21/98)	228.2 (03/29/99)	228 (09/21/99)	227.3 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.41	J	8.89	J I	10		8.54	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<14.7	U V	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	52.3		<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<38	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1920		1730		1610		1550		< 2400	5	ug/L	EX
+	Sodium, total recoverable	5080		5320		6010		5900		> 4600	1	ug/L	EX
	Sulfate	<1000	U	<1000	U	405		237	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	3.61		1.15	U	4.78		1.83	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.35	UI	~22	UIJ	3.13		.489	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	2.1		3.09	UIJ	1.12		1.7		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 7B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100597.6 E 46718.1	33.32447 Deg N -81.7392 Deg W	147.5 - 142.7 ft msl	344.1 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/08/98	02/17/99	08/16/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	206.42	207.32	207.45	205.84	ft msl
pH	6.9	5.5	6	5.8	pH
Sp. Conductance	100	100	102	93	uS/cm
Water temperature	20.9	19.5	21.1	19	deg. C
Alkalinity as CaCO3	8	5	6	11	mg/L
Turbidity	3.2	1.4	1	1.1	NTU
Volumes purged	2.54	2.93	2.76	2.40	well volume
Sampling code					
Synchronous water level	206.1 (09/21/98)	207.2 (03/29/99)	207.4 (09/21/99)	205.7 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	50.4		<10	U	53		104		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<1.6	U V	<5.39	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	6.28	J	6.77		6.63	J K	6.48		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	86.6	J	77.8		68.9	J K	66.1		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	1.02		< 200	1	ug/L	ML
+	Trichloroethylene	66.3	J	56.1	J L	56.2	J K	50.4		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	28.7		41.5		<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	7900		8720		5460		7740		> 2400	5	ug/L	EX
+	Sodium, total recoverable	6890		8080		7750		9200		> 4600	1	ug/L	EX
+	Sulfate	2520		<5000	U	3290		3140		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.33		1.09	UI	1.71	J	.89	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.76		1.22	UI	1.88	J	2.46	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.4	UI	2.13	J	1.63		.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 7C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100609.2 E 46709.1	33.32448 Deg N -81.7393 Deg W	200.1 - 195.4 ft msl	344.5 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/08/98	02/17/99	08/16/99	02/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.87	222.8	222.45	221.4	ft msl
pH	6.7	4.9	5.4	5.3	pH
Sp. Conductance	240	200	200	179	uS/cm
Water temperature	24.5	19.5	20.8	19.7	deg. C
Alkalinity as CaCO3	26	1	1	2	mg/L
Turbidity	2.6	.9	.7	1.9	NTU
Volumes purged		2.75	2.95	2.90	well volume
Sampling code	NX				
Synchronous water level	221.8 (09/21/98)	222.7 (03/29/99)	222.4 (09/21/99)	221.3 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	84		<10	U	30		28.1		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<2.14	U V	<4.44	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<7.4	JU I	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	1.68	J K	1.88		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	58.6	J	56.2		56.9	J K	62.1		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	19	J	18.4	J L	20	J K	20.9		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	82.8		125		167	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	30000		26700		13600		20200		> 2400	5	ug/L	EX
+	Sodium, total recoverable	41500		31000		27500		29000		> 4600	1	ug/L	EX
	Sulfate	111	J	<5000	U	364	J	<200	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	14.8		7.79	UI	7.8	J	3.07	J L	NDD	1	pCi/L	GP
	Nonvolatile beta	45.4		67.4		53.21	J	30.6		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	5.1		7.3	UIJ	3.42		1.8		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution Factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 8A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 100815.1 E 47293.2	33.32589 Deg N -81.7381 Deg W	242.4 - 212.4 ft msl	344.2 ft msl	4" PVC	S	M

SAMPLE DATE	09/22/98	02/17/99	08/30/99	02/18/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	228.64	229.4	228.99	168.17	ft msl
pH	5.2	4.6	4.8	5	pH
Sp. Conductance	50	41	39	33	uS/cm
Water temperature	24.3	20.1	19.8	18.5	deg. C
Alkalinity as CaCO3	6		0	0	mg/L
Turbidity	8.1	.3	2	.8	NTU
Volumes purged	.095	3.81	3.26	-1.0	well volume
Sampling code	NX				
Synchronous water level	228.6 (09/21/98)	229.3 (03/29/99)	228.9 (09/21/99)	168 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	18.1		<10	U	6.5	J I	6.18	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<4.64	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	112		<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<3.8	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	.59	J IK	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016	<2	U									ug/L	
	PCB 1221	<2	U									ug/L	
	PCB 1232	<1	U									ug/L	
	PCB 1242	<1	U									ug/L	
	PCB 1248	<1	U									ug/L	
	PCB 1254	<1	U									ug/L	
	PCB 1260	<1	U									ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	22.9		60.9		53.9	J K	36.7		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	5.72		19	J L	16.2	J K	5.96		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	19.6	J	544		<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3960		2510		1290		2790		> 2400	5	ug/L	EX
	Sodium, total recoverable	3430		3080		2780		3500		< 4600	1	ug/L	EX
	Sulfate	288	J	<5000	U	621		569		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	5.56		3.31		10.1		3.17		< 15	1	pCi/L	GP
	Nonvolatile beta	3.79		-1.9	UI	9.71		2.11	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	3		2.61	UI	1.7		2.4	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 8B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100805.8 E 47281.9	33.32585 Deg N -81.7381 Deg W	150.8 - 146.1 ft msl	343.9 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/31/98	02/17/99	08/16/99	02/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	207.2	208.42	209	207.21	ft msl
pH	5.5	4.9	5.6		pH
Sp. Conductance	36	27	28	29	uS/cm
Water temperature	19.7	19.8	22.2	18.5	deg. C
Alkalinity as CaCO3	1	1	4	3	mg/L
Turbidity	1.4	.3	.9	1.2	NTU
Volumes purged	3.85	2.48	1.97	2.53	well volume
Sampling code					
Synchronous water level	207.8 (09/21/98)	209 (03/29/99)	208.9 (09/21/99)	207.1 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.2		<10	U	17		26.4		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<1.92	U V	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<7.8	JU I	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	4.01	J	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016	<.2	U									ug/L	
	PCB 1221	<.2	U									ug/L	
	PCB 1232	<.2	U									ug/L	
	PCB 1242	<.1	U									ug/L	
	PCB 1248	<.1	U									ug/L	
	PCB 1254	<.1	U									ug/L	
	PCB 1260	<.1	U									ug/L	
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	4.46	J	4.74	J I	4.72	J K	5.38		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	44.9	J	45.6	J L	46.8	J K	47.5		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1860		1030		1070		1140		< 2400	5	ug/L	EX
	Sodium, total recoverable	2110		1920		2310		2600		< 4600	1	ug/L	EX
	Sulfate	415	J	<5000	U	654	J	426		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.454	UI	-.29	UI	1.41		.521	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.79		.21	UI	3.17	J	1.01	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.2	UI	1.11		.34	U	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 8C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100793.2 E 47264.6	33.32579 Deg N -81.7382 Deg W	195.9 - 191.2 ft msl	344 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/31/98	02/17/99	08/16/99	02/24/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.9	220.1	219.88	218.74	ft msl
pH	4.8	4.1	4.8	5.1	pH
Sp. Conductance	460	430	537	568	uS/cm
Water temperature	19.4	19.6	21.1	18.8	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.8	.4	.6	.9	NTU
Volumes purged	4.99	3.03	3.53	3.18	well volume
Sampling code					
Synchronous water level	219.5 (09/21/98)	220 (03/29/99)	219.8 (09/21/99)	218.7 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	102		<10	U	130		137		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<100	U	<5.91	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	JU	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<200	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	.49	J I	NDD	1	ug/L	ML
+	1,1-Dichloroethylene	11.2	J	8.56		<5	U	7.96		> 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016	<2	U			<1.9	U					ug/L	
	PCB 1221	<2	U			<1.9	U					ug/L	
	PCB 1232	<2	U			<.96	U					ug/L	
	PCB 1242	<1	U			<.96	U					ug/L	
	PCB 1248	<1	U			<.96	U					ug/L	
	PCB 1254	<1	U			<.96	U					ug/L	
	PCB 1260	<1	U			<.96	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	84.2	J	76.1		69		68.1		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	1.7	J I	1.62		< 200	1	ug/L	ML
+	Trichloroethylene	51.7	J	48.5	J L	46		43.4		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	114		143		180	J	260		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	14500		39800		45000		59000		> 2400	20	ug/L	EX
+	Sodium, total recoverable	23700		31300		34600		51000		> 4600	1	ug/L	EX
	Sulfate	372	J	<5000	U	404	J	343	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	6.16		4.59		20.82		6.61	J L	NDD	1	pCi/L	GP
+	Nonvolatile beta	35.9		44.9		120.46	J	84		> 50	1	pCi/L	GP
	Radium, total alpha-emitting	3.6		3.69		2.07		4.2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 13A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 101725.7 E 47525.4	33.32828 Deg N -81.7393 Deg W	136.4 - 131.4 ft msl	346.7 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/14/98	02/19/99	08/17/99	03/15/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	206.05	207.32	209.75	211.17	ft msl
pH	5.2	4.6	5.2	5.2	pH
Sp. Conductance	32	24	32	30	uS/cm
Water temperature	19.8	20.2	22.5	20	deg. C
Alkalinity as CaCO ₃		1	0	2	mg/L
Turbidity	1.3	.6	.6	.9	NTU
Volumes purged	3.73	2.44	2.44	3.01	well volume
Sampling code					
Synchronous water level	208.1 (09/21/98)	209.7 (03/29/99)	209.7 (09/21/99)	211 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	7.41	J	8.52	J I	7.9	J I	7.37	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<100	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	81.6	J	<10	U	<200	U	<40	U	< EQL	1	ug/L	ML
Organics													
+	Chlorobenzene	<25	U	<25	U	<50	U	11.3		> 5	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<50	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<50	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<50	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016					<1.9	U					ug/L	
	PCB 1221					<1.9	U					ug/L	
	PCB 1232					<.96	U					ug/L	
	PCB 1242					<.96	U					ug/L	
	PCB 1248					<.96	U					ug/L	
	PCB 1254					<.96	U					ug/L	
	PCB 1260					<.96	U					ug/L	
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<50	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	39.1		41.1		29	J I	15.8		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<50	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	878		904		1000		1210		> 5	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2400		1840		1860		1830		< 2400	5	ug/L	EX
	Sodium, total recoverable	2170		2090		2400		2300		< 4600	1	ug/L	EX
	Sulfate	554	J	<5000	U	587		551		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.52		.19	UI	2.09		.386	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.84		.14	UI	2.92		1.2	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		1.26		.09	UI	.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 13CC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101728.8 E 47525.7	33.32829 Deg N -81.7393 Deg W	196.8 - 192 ft msl	346.9 ft msl	4 " PVC	S	UL

SAMPLE DATE	09/14/98	02/19/99	08/10/99	03/17/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	223.6	224.46	224.45	223.56	ft msl
pH	5.9	4.7	5.5	6.7	pH
Sp. Conductance	76	70	82	125	uS/cm
Water temperature	35.1	20.9	24.5	16.5	deg. C
Alkalinity as CaCO ₃	1	1	4	3	mg/L
Turbidity	2	1.3	.7	1	NTU
Volumes purged	.049	2.84	0	.097	well volume
Sampling code	NX		NX	NX	
Synchronous water level	223.7 (09/21/98)	224.4 (03/29/99)	224.4 (09/21/99)	223.4 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U	<10	U	<15	U	< EQL	1	ug/L	ML
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	10		18.1	J I	NDD	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	2.09		2.86		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	14.3		12		12.9		14.9		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	1.91		2.31		< 200	1	ug/L	ML
+	Trichloroethylene	13.4		11.6		10.8		9.88		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	114		181	J	98	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	8500		6910		4960		6100		> 2400	5	ug/L	EX
+	Sodium, total recoverable	19600		15800		15600		19000		> 4600	1	ug/L	EX
+	Sulfate	6010		5420		4450		4130		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.198	UI	-.79	UI	1.56		2.35		< 15	1	pCi/L	GP
	Nonvolatile beta	1.69		2.72		5		2.07	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	.48		.14	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 13D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101778.1 E 47517.5	33.32838 Deg N -81.7394 Deg W	231.5 - 211.5 ft msl	347.6 ft msl	4 " PVC	S	M
SAMPLE DATE		09/14/98	02/09/99	08/31/99	02/29/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	227.1	227.85	227.76	226.73	ft msl	
pH	6.8	6.4	6.4	6.7	pH	
Sp. Conductance	300	260	319	346	uS/cm	
Water temperature	37.6	19.5	24.1	19.4	deg. C	
Alkalinity as CaCO3	46	42	60	14	mg/L	
Turbidity	13.3	14	11.6	5.7	NTU	
Volumes purged	.099	2.27	.095	0	well volume	
Sampling code	NX		NX	NX		
Synchronous water level	227.3 (09/21/98)	227.9 (03/29/99)	227.7 (09/21/99)	226.6 (03/21/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.4		9.88	J I	15		18		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	8.77	J I	NDD	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	5.44		3.45	J I	4.03	J K	3.12	J K	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	31.1		29.1		26.2	J K	22	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	5.33		4.77	J I	4.61	J K	3.57		< 200	1	ug/L	ML
	Trichloroethylene	13.8		13.9		10.2	J K	8.61	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	<20	U	763		77.9	J	165		> 100	1	ug/L	WA
+	Nitrate-nitrite as nitrogen	41500		30700		21400		23700		> 2400	5	ug/L	EX
+	Sodium, total recoverable	91800		66800		69400		61000		> 4600	1	ug/L	EX
+	Sulfate	5130		5490		4280		4960		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.294	UI	.93	UI	4.5		1.02	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	8.63		12.1		13.04		3.48		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.3		1.14	J	.42	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 39A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100837.6 E 48367.3	33.32769 Deg N -81.7354 Deg W	111.7 - 106.1 ft msl	341.6 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 09/22/98 02/08/99 08/06/99 01/31/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	209.46	208.96	209.44	207.84	ft msl
pH	5.4	4.8	4.8	4.8	pH
Sp. Conductance	76	27	27	28	uS/cm
Water temperature	20	20	21.5	19.6	deg. C
Alkalinity as CaCO ₃	20	0	0	0	mg/L
Turbidity	4.1	1.4	.4	.5	NTU
Volumes purged	.030	2.14	2.17	.015	well volume
Sampling code	NX			NX	
Synchronous water level	208 (09/21/98)	208.9 (03/26/99)	208.8 (09/22/99)	207.8 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.2		<10	U	6.6	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<100	U					ug/L	
	Nickel, total recoverable	21.1	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<200	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U					ug/L	
	PCB 1016					<2	U					ug/L	
	PCB 1221					<2	U					ug/L	
	PCB 1232					<1	U					ug/L	
	PCB 1242					<1	U					ug/L	
	PCB 1248					<1	U					ug/L	
	PCB 1254					<1	U					ug/L	
	PCB 1260					<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	4.65	J	3.35	J I	3.1	J I	3.63	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	354		32.4		695		<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2740		163		735		74.8	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	4720		1720		4070		1600		< 4600	1	ug/L	EX
+	Sulfate	3950		4850	J	3930		4350		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.01		.04	UI	2.93		1.81	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.32		-.27	UI	6.04		3.28		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	9.12	UIJ	1.04		2.8		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 59D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102182.2 E 48314.8	33.33058 Deg N -81.7381 Deg W	229.3 - 209.9 ft msl	359.3 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/10/98	02/09/99	09/27/99	03/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.75	229.55	229.11	228.22	ft msl
pH	4.8	5.2	4.9		pH
Sp. Conductance	39	38	57		uS/cm
Water temperature	25.6	19.1	22.7		deg. C
Alkalinity as CaCO3	2		0		mg/L
Turbidity	2.8	13.6	2.5		NTU
Volumes purged		2.51	.080	0	well volume
Sampling code	NX		NX		
Synchronous water level	229.1 (09/25/98)	229.5 (03/29/99)	229.1 (09/21/99)	228.1 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	22.2		14		31.4		13.2	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	JU Q	<35.1	JU LV	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	10.4	J I	NDD	1	ug/L	ML
	Nickel, total recoverable	7.76	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<2500	UJ	<2500	U	3.93		<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethane	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<2500	UJ	<2500	U	3.43		<200	U	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	PCB 1016	<2	U	<2	U	<2	U	<.99	U	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2	U	<2	U	<.99	U	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<1	U	<.99	U	<.99	U	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<1	U	<.99	U	<.99	U	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<1	U	<.99	U	<.99	U	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<1	U	<.99	U	<.99	U	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<1	U	<.99	U	<.99	U	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<2500	UJ	<2500	U	9.28		<200	U	< EQL	200	ug/L	ML
	Tetrachloroethylene	58000	J	66700		57300		127000	J K	NDD	200	ug/L	ML
	1,1,1-Trichloroethane	<2500	UJ	<2500	U	4.12		<200	U	< EQL	200	ug/L	ML
	Trichloroethylene	14600	J	7550		11000		18000	J K	NDD	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	242		265		162	J	130	J IK	NDD	1	ug/L	WA
+	Nitrate-nitrite as nitrogen	3000		2420		2030		4360		> 2400	5	ug/L	EX
	Sodium, total recoverable	2960	J	2740		2980		4010		< 4600	1	ug/L	EX
	Sulfate	147	J	<5000	U	215	J	629		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	3.7		5.14		5.98		6.59		< 15	1	pCi/L	GP
	Nonvolatile beta	2.4		1.94	UI	5.62		2.98		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.4		2.44	UIJ	1.67		1	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 62B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101865.3 E 47906.8	33.32921 Deg N -81.7386 Deg W	141 - 136.3 ft msl	349.1 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/23/98	03/08/99	09/13/99	03/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	208.18	208.05	207.98	212.89	ft msl
pH	4.8	5.9	6.3	6	pH
Sp. Conductance	32	43	37	32	uS/cm
Water temperature	19.6	19.3	19.4	19.5	deg. C
Alkalinity as CaCO ₃	6	15	10	16	mg/L
Turbidity	1.5	.9	.5	.8	NTU
Volumes purged	2.25	2.19	2.50	2.61	well volume
Sampling code					
Synchronous water level	210 (09/21/98)	210.8 (03/29/99)	207.9 (09/21/99)	212.8 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	19.5		23.9		18.7		16		< 2000	1	ug/L	ML
	Cyanide	<10 ¹	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<.35	U V	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	26.3		17.4		18.8		14.6	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	44.8		41.2		49.5		38.2	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	45.3		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1230		845		1550		570		< 2400	5	ug/L	EX
	Sodium, total recoverable	3590		1970		2470		2400		< 4600	1	ug/L	EX
	Sulfate	415	J	<5000	U	507		560		< 3000	1	ug/L	EX
Radionuclides													
+	Gross alpha	.614		.2	UI	.9		27		> 15	1	pCi/L	GP
	Nonvolatile beta	1.04	UI	.34	UI	1.97	J	6.33	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	0	UIJ	8.72	J	.65		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 62C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101857.2 E 47895	33.32918 Deg N -81.7386 Deg W	190 - 185.2 ft msl	349.1 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/23/98	02/24/99	09/13/99	03/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.56	222.62	222.22	222.94	ft msl
pH	4.8	5	5.3	5.5	pH
Sp. Conductance	83	77	69	62	uS/cm
Water temperature	19.8	18.9	19	19.4	deg. C
Alkalinity as CaCO3	2	1	4	5	mg/L
Turbidity	.6	.6	.4	.3	NTU
Volumes purged	2.83	2.62	3.27	3.09	well volume
Sampling code					
Synchronous water level	222.7 (09/21/98)	223 (03/29/99)	222.1 (09/21/99)	222.8 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>1Q99</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.09	J	4.79	J I	4.2	J I	3.74	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<.42	U V	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	2.19	J	<5	U	.93	J I	.81	J I	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	39.7		31.2		21.6		17.6		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	33.3		29.4		25.3		20.8		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLPEPA</u>	<u>3Q97</u>	<u>CLPEPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	48.9		<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	12700		684		496	J	4400		> 2400	5	ug/L	EX
+	Sodium, total recoverable	19400	J	15200		14200		11700		> 4600	1	ug/L	EX
+	Sulfate	1250		4220	J	5910		5000		> 3000	1	ug/L	EX
Radionuclides													
+	Gross alpha	.962		.63	UI	.8		17.9		> 15	1	pCi/L	GP
	Nonvolatile beta	2.34		2.62		.33	UIJ	4.33	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.4	J	5.44	J	.44	UI	~.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 62D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101849 E 47882.9	33.32914 Deg N -81.7386 Deg W	231.9 - 212.4 ft msl	349.5 ft msl	4 " PVC	S	M
SAMPLE DATE		09/23/98	02/09/99	09/13/99	03/17/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	228.32	228.8	228.35	227.6	ft msl	
pH	11.2	10.2	11.1	10.7	pH	
Sp. Conductance	740	890	730	766	uS/cm	
Water temperature	19.8	17.1	19.9	15.9	deg. C	
Alkalinity as CaCO ₃	160	168	133	143	mg/L	
Turbidity	3.3	4.3	.9	2.7	NTU	
Volumes purged	.194	.094	.097	.102	well volume	
Sampling code	NX	X	NX	NX		
Synchronous water level	228.3 (09/21/98)	228.8 (03/29/99)	228.3 (09/21/99)	227.5 (03/21/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	41.5		47.7		46.3		37.5		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<8.6	JU LV	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<7.69	JU	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	2.13	J	1.97	J I	1.53		1.51		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	58.2		44.9		35.9		32.7		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	2.43	J I	1.71		1.35		< 200	1	ug/L	ML
+	Trichloroethylene	12.8		13.4		10.9		8.51		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	1310		1540		1510		1280		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	9800		10500		12600		13000		> 2400	5	ug/L	EX
+	Sodium, total recoverable	38000		43100		53400		45400		> 4600	1	ug/L	EX
+	Sulfate	5360		5790		5190		4600		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.63		2.84	UI	1.6		.646	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.83		10.4		17.27	J	15.5	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3	J	2.91	J	-.12	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 63B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101184.4 E 47861	33.32763 Deg N -81.7374 Deg W	140.9 - 136.2 ft msl	346.9 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/23/98	03/04/99	09/13/99	03/10/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	208.26	208.5	208.13	207.55	ft msl
pH	4.8	5	5.2	6.1	pH
Sp. Conductance	86	92	88	79	uS/cm
Water temperature	18.9	17.4	18.8	19.1	deg. C
Alkalinity as CaCO3		1	1	3	mg/L
Turbidity	.6	.2	.2	.2	NTU
Volumes purged	2.83	2.56	2.47	3.39	well volume
Sampling code					
Synchronous water level	208.9 (09/21/98)	210.1 (03/29/99)	208.1 (09/21/99)	207.4 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	20.5		24.3		24.2						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<10	U	<10	U					ug/L	
Organics													
+	Chlorobenzene	<25	U	<5	U	<1	U	6.5		> 5	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<5	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	<5	U	2.61	J K	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	149		167		170	J K	125		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<5	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	490		426		545		684		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	2760		5170		6990		7800		> 2400	5	ug/L	EX
+	Sodium, total recoverable	2220	J	3870		5950		6660		> 4600	1	ug/L	EX
	Sulfate	139	J	<5000	U	359	J	120	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	.456	UI	1.16	UI	3.36		1.84		< 15	1	pCi/L	GP
	Nonvolatile beta	.797	UI	1.27	UI	7.29	J	3.91	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	1.46	UIJ	.93		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 63C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101174.6 E 47849.2	33.32759 Deg N -81.7374 Deg W	195.8 - 191.1 ft msl	347 ft msl	4 " PVC	S	UL

SAMPLE DATE	09/23/98	03/04/99	09/13/99	03/10/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	220.26	220.3	219.73	219.04	ft msl
pH	4.4	5.4	5.2	5.8	pH
Sp. Conductance	42	38	38	36	uS/cm
Water temperature	19	17.2	18.9	18.5	deg. C
Alkalinity as CaCO ₃	2	1	1	2	mg/L
Turbidity	.6	.2	.7	.4	NTU
Volumes purged	2.92	3.23	3.08	3.49	well volume
Sampling code					
Synchronous water level	220 (09/21/98)	220.4 (03/29/99)	219.7 (09/21/99)	219 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.74	J	6.14	J I	7.13	J I	6.18	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<10	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<10	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<10	U	<1	U	.6	J IK	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<10	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<10	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	167		168		128		155	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<10	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	25		30.3		22.4		22.6	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	11.1	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2520		2640		1900		2400		< 2400	5	ug/L	EX
	Sodium, total recoverable	2930	J	3060		3230		2950		< 4600	1	ug/L	EX
	Sulfate	168	J	<5000	U	427		250		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.71		1.44		2.87		1.05	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.93		-.65	UI	2.57	J	1.78	J IK	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.4	J	1.92	UIJ	.5	UI	.5	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 63D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101165.2 E 47837.4	33.32755 Deg N -81.7374 Deg W	232.8 - 212.8 ft msl	346.8 ft msl	4 " PVC	S	M

SAMPLE DATE	09/23/98	02/09/99	09/13/99	03/10/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	229.05	229.48	228.93	227.95	ft msl
pH	7.8	9	8.4	9.1	pH
Sp. Conductance	100	100	106	97	uS/cm
Water temperature	19.3	16.8	20	23.3	deg. C
Alkalinity as CaCO3	25	32	46	47	mg/L
Turbidity	11.9	5.1	6.1	14.9	NTU
Volumes purged	.190	.092	.096	1.33	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	229 (09/21/98)	229.4 (03/29/99)	228.9 (09/21/99)	227.8 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.13	J	11.3		8.1	J I	12	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<8.6	JU ILV	< EQL	1	ug/L	ML
	Lead, total recoverable	<100	U	<100	U	<10	U	<7.48	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<10	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	257		283		250		220		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	30.2		40.8		25.9		20.2		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	1100		1200		1020		688		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3380		4050		2770		2500		> 2400	5	ug/L	EX
	Sodium, total recoverable	3960		4690		4070		2950		< 4600	1	ug/L	EX
	Sulfate	770	J	<5000	U	1440		730		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.48		.12	UI	2.72		.634	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.45		.31	UI	12.99	J	1.4	J IK	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3	J	1.39	UIJ	.53		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 64C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101842.9 E 46589.2	33.32701 Deg N -81.7420 Deg W	181.2 - 176.5 ft msl	348.4 ft msl	4 " PVC	S	UL

SAMPLE DATE 09/10/98 03/09/99 03/15/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.28	222.55	<i>Not Available</i>	221.78	ft msl
pH	4.3	4		4.7	pH
Sp. Conductance	170	190		187	uS/cm
Water temperature	20.2	18.4		19.3	deg. C
Alkalinity as CaCO ₃				0	mg/L
Turbidity	.3	.2		.3	NTU
Volumes purged	3.93	4.46		2.71	well volume
Sampling code					
Synchronous water level	221.4 (09/25/98)	222.5 (03/29/99)	222.4 (09/21/99)	192.3 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	32.1		30.1				29.6		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U			<8.29	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	14.8	J	<50	U			<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U			<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	U	<50	U			<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U			.93	J I	NDD	1	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U			26	J	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U			<1	JU	< EQL	1	ug/L	ML
	PCB 1016	<2	U									ug/L	
	PCB 1221	<2	U									ug/L	
	PCB 1232	<1	U									ug/L	
	PCB 1242	<1	U									ug/L	
	PCB 1248	<1	U									ug/L	
	PCB 1254	<1	U									ug/L	
	PCB 1260	<1	U									ug/L	
	1,1,2,2-Tetrachloroethane	<50	U	<50	U			<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	307	J	259				217	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U			2.8	J	NDD	1	ug/L	ML
	Trichloroethylene	39.3	J	34.9	J I			27.1	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	167		206		230						ug/L	
	Nitrate-nitrite as nitrogen	15600		20800		16800						ug/L	
	Sodium, total recoverable	12900		13000		14400						ug/L	
	Sulfate	130	J	<5000	U	<400	U					ug/L	
Radionuclides													
	Gross alpha	9.34		5.47		11.05						pCi/L	
	Nonvolatile beta	8.45		8.53		15.86						pCi/L	
	Radium, total alpha-emitting	2.9		5.98	J	1.96						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-2. Groundwater Monitoring Results for Point-of-Compliance Wells, M-Area HWMF (Cont.)
WELL MSB 64D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101854.8 E 46598.5	33.32705 Deg N -81.7420 Deg W	230.1 - 210.1 ft msl	348.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/09/98	02/12/99	08/25/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	225.38	226.7	226.75	225.78	ft msl
pH	5.6	5	5.7	5.8	pH
Sp. Conductance	84	140	102	94	uS/cm
Water temperature	19.8	19.6	19.8	19.2	deg. C
Alkalinity as CaCO3	17	21	33	15	mg/L
Turbidity	.5	1.5	1.1	.9	NTU
Volumes purged	3.64	4.09	4.36	3.64	well volume
Sampling code					
Synchronous water level	225.6 (09/25/98)	226.7 (03/29/99)	226.7 (09/21/99)	225.3 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	16.4		<10	U	12		11.6	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Lead, total recoverable	<0	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	12.1	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<0	U	<200	U	<3.8	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016	<2	U			<1.8	U					ug/L	
	PCB 1221	<2	U			<1.8	U					ug/L	
	PCB 1232	<1	U			<.92	U					ug/L	
	PCB 1242	<1	U			<.92	U					ug/L	
	PCB 1248	<1	U			<.92	U					ug/L	
	PCB 1254	<1	U			<.92	U					ug/L	
	PCB 1260	<1	U			<.92	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	17.2	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	2440		2550		1650		1890		< 2400	5	ug/L	EX
+	Sodium, total recoverable	13300		11000		15300		21000		> 4600	1	ug/L	EX
+	Sulfate	2090		<5000	U	3380		7700		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.477	UI	1.14	UI	.34	UI	.416	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.833	UI	5.94		2.7	U	2	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	2.7	J	.5		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF
WELL MSB 29B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107319.3 E 51217.5	33.34668 Deg N -81.7405 Deg W	151.7 - 145.1 ft msl	365 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/27/98 02/05/99 08/25/99 02/15/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.49	223.38	223.01	222.56	ft msl
pH	5.5	4.9	4.8	5.6	pH
Sp. Conductance	31	31	29	28	uS/cm
Water temperature	19.9	18.5	19.5	16.9	deg. C
Alkalinity as CaCO3			0	1	mg/L
Turbidity	.3	.3	.2	1.1	NTU
Volumes purged	2.49	2.32	2.90	.020	well volume
Sampling code				NX	
Synchronous water level	222.3 (09/24/98)	223.6 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.17	J	<10	U	7.5	J I	7.35	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	12.2	J	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U			<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	41		88.8		<200	U	<200	U	< EQL	1	ug/L	EX
	Chloride	2310		2820		2770		2540		< 4200	2	ug/L	EX
	Chromium, total recoverable	<4	U	<5	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	.25	J	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Copper, total recoverable	1.24	J	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Fluoride	<100	U	<100	U	<200	U	<200	U	< EQL	2	ug/L	EX
	Manganese, total recoverable	1.37	J	2	J	1.77	J	<1.4	U V	< EQL	1	ug/L	EX
	Mercury, total recoverable	.023	J	<.2	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1800		1510		1360		1460		< 2400	5	ug/L	EX
	Sodium, total recoverable	2280		2490		2440		2600		< 4600	1	ug/L	EX
	Sulfate	133	J	<5000	U	469		<400	U	< EQL	2	ug/L	EX
	Total phosphates (as P)	<50	UJ	<50	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	<5	U	9.8	J	<20	U	<20	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	1.93		5.3		2.02		.898	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.63		3.06		.33	UI	1.28	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		1.4		.72		1.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 29C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107315 E 51206.6	33.34665 Deg N -81.7405 Deg W	179.7 - 174.1 ft msl	365 ft msl	4 " PVC	S	UL
SAMPLE DATE	08/27/98	02/05/99	08/12/99	02/15/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	228.7	229.5	229.54	228.47	ft msl	
pH	5.2	5	4.7	5.5	pH	
Sp. Conductance	29	31	29	28	uS/cm	
Water temperature	20.3	18.5	19.8	18.9	deg. C	
Alkalinity as CaCO3			0	2	mg/L	
Turbidity	.3	.2	.3	1.1	NTU	
Volumes purged	2.35	2.56	2.81	5.39	well volume	
Sampling code						
Synchronous water level	229 (09/24/98)	229.8 (03/26/99)	229.5 (09/22/99)	228.4 (03/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.13	J	<10	U	5.9	J I	6	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<2.27	U V	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	15.2	J	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U			<2	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	41		18	J	<200	U	77	J I	NDD	1	ug/L	EX
	Chloride	2260		2450		2810		2600		< 4200	1	ug/L	EX
	Chromium, total recoverable	1.83	J	1	J	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	.73	J	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Copper, total recoverable	3.74	J	2.1	J	13.9	J	<20	U	< EQL	1	ug/L	EX
	Fluoride	<100	U	<100	U	<200	U	<200	U	< EQL	2	ug/L	EX
	Manganese, total recoverable	2.3		2.2	J	1.77	J	1.9	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.2	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1910		1850		1350		1440		< 2400	5	ug/L	EX
	Sodium, total recoverable	2320		2320		2470		2500		< 4600	1	ug/L	EX
	Sulfate	128	J	<5000	U	366	J	535		< 3000	1	ug/L	EX
	Total phosphates (as P)	<50	UJ	8	J	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	<8.08	U	25.1		<20	U	8.8	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	2.73		4.44	UI	3.73		1.28	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	2.36		5.57		3.85		2.58	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.4		1.96	J	.34	UI	.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 29D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107323.3 E 51226.9	33.34670 Deg N -81.7404 Deg W	227.6 - 207 ft msl	364.9 ft msl	4 " PVC	S	M

SAMPLE DATE	08/31/98	02/05/99	08/12/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.78	231.59	231.82	230.59	ft msl
pH	5	5.1	4.7	5.6	pH
Sp. Conductance	28	32	29	30	uS/cm
Water temperature	20.1	17.8	19.8	18.3	deg. C
Alkalinity as CaCO3			1	1	mg/L
Turbidity	2.3	.5	.3	1.2	NTU
Volumes purged	4.20	2.88	2.41	3.32	well volume
Sampling code					
Synchronous water level	230.7 (09/24/98)	231.9 (03/26/99)	231.8 (09/22/99)	230.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.84	J	<10	U	9.1	J I	<8.64	U V	< EQL	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<4.14	U V	11.2		< 15	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<9.5	JU I	<10.9	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<3.38	UJ			<2	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	47.8		16.9	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Chloride	3850		3610		3450	J	3340		< 4200	1	ug/L	EX
	Chromium, total recoverable	<4	U	<3	U	6.18	J	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	.219	J	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Copper, total recoverable	17.1		7.9		17.4	J	19	J I	NDD	1	ug/L	EX
	Fluoride	<100	U	<100	U	188	J	<200	U	< EQL	2	ug/L	EX
	Manganese, total recoverable	4.78		5.1		8.76	J	14		< 50	1	ug/L	EX
	Mercury, total recoverable	.022	J	.33		<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1270		1020		867		1400		< 2400	5	ug/L	EX
	Sodium, total recoverable	2440		2260		2700		3400		< 4600	1	ug/L	EX
	Sulfate	757	J	562	J	356	J	647		< 3000	1	ug/L	EX
	Total phosphates (as P)	<50	UJ	<50	U	2500	J	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	<3.11	U	14.3		7.82	J	7.5	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	10.2		5.06		28.5		12.4	J K	NDD	1	pCi/L	GP
	Nonvolatile beta	3.53		1.37	U	19.3	J	4.93		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	6.6		6.88		3.33		3.7		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 43A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.3 E 49293.7	33.34344 Deg N -81.7454 Deg W	140.5 - 134.9 ft msl	357.7 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/01/98	02/08/99	08/17/99	02/11/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.59	229.1	228.38	227.87	ft msl
pH	4.9	5.4	5.2	5.1	pH
Sp. Conductance	31	25	25	25	uS/cm
Water temperature	21.7	19.7	22.5	19.3	deg. C
Alkalinity as CaCO ₃	1	3	1	0	mg/L
Turbidity	.7	.2	.3	.5	NTU
Volumes purged	2.49	2.12	3.25	2.60	well volume
Sampling code					
Synchronous water level	228.3 (09/24/98)	229.1 (03/26/99)	228.3 (09/22/99)	227.6 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14.1		7.77	J I	9.8	J I	9.54	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<10	U	<1.93	JU	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<200	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<68.5	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Chloride	1190		1360		1530		1620		< 4200	2	ug/L	EX
	Chromium, total recoverable	<4	U	.7	J	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	.371	J	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Copper, total recoverable	17.5		<3	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Fluoride	<100	U	<100	U	391		153	J I	NDD	2	ug/L	EX
	Manganese, total recoverable	2.27		2.9	J	2.51	J	2.3	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.2	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1560		1700		1470		1620		< 2400	5	ug/L	EX
	Sodium, total recoverable	1750		1740		1700		2000		< 4600	1	ug/L	EX
	Sulfate	102	J	<5000	U	284	J	252	J I	NDD	2	ug/L	EX
	Total phosphates (as P)	140		<10	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	13.9	J	15.6		4.38	J	6.3	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	1.49		.1	UI	.76	UI	.531	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.35		.19	UI	2.16		4.32		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.4	UI	.15	UI	.72	U	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 43B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.6 E 49311.8	33.34346 Deg N -81.7454 Deg W	175.5 - 169.9 ft msl	357.8 ft msl	4 " PVC	S	UL
SAMPLE DATE	09/01/98	02/08/99	08/17/99	02/11/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	228.71	229.2	228.6	228	ft msl	
pH	4.3	5.1	5.1	4.7	pH	
Sp. Conductance	31	25	24	24	uS/cm	
Water temperature	21.2	19.7	21.5	19.3	deg. C	
Alkalinity as CaCO3			0	0	mg/L	
Turbidity	.3	.5	.2	.5	NTU	
Volumes purged	3.25	2.19	4.59	2.50	well volume	
Sampling code						
Synchronous water level	209.9 (09/24/98)	229.1 (03/26/99)	228.5 (09/22/99)	227.8 (03/23/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.89	J	2.43	J I	3.1	J I	<3.22	U V	< EQL	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<6.7	JU I	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<200	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	13.2	J	12.6	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Chloride	1800		1860		1950		1900		< 4200	2	ug/L	EX
	Chromium, total recoverable	<4	U	1	J	<10	U	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<686	U	<5	U	<20	U	<20	U	< EQL	1	ug/L	EX
	Copper, total recoverable	6.93		<3	U	<20	U	<4.6	JU I	< EQL	1	ug/L	EX
	Fluoride	<100	U	<100	U	373		159	J I	NDD	2	ug/L	EX
	Manganese, total recoverable	1.57	J	1.7	J	1.43	J	2.5	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.2	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1680		1880		1410		1480		< 2400	5	ug/L	EX
	Sodium, total recoverable	2250		2250		2330		2400		< 4600	1	ug/L	EX
	Sulfate	215	J	<5000	U	356	J	374	J I	NDD	2	ug/L	EX
	Total phosphates (as P)	<50	U	<10	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	8.25		17		10.3	J	12	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	2.69		3.84	UI	3.76		1.44	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.74		3.32		4.24		1.48	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.8		2.08	J	.99	U	.5	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-3. Groundwater Monitoring Results for Background Wells, M-Area HWMF (Cont.)
WELL MSB 43D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.2 E 49322	33.34348 Deg N -81.7454 Deg W	220.8 - 200.2 ft msl	358 ft msl	4" PVC	S	M/GC

SAMPLE DATE	09/01/98	02/08/99	08/17/99	02/11/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.71	231.25	230.59	230.1	ft msl
pH	4	4.9	4.9	3.3	pH
Sp. Conductance	29	23	22	23	uS/cm
Water temperature	20.6	19.5	21.2	19.7	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1	.4	.2	.6	NTU
Volumes purged	2.81	2.71	4.53	2.66	well volume
Sampling code					
Synchronous water level	230.4 (09/24/98)	231.2 (03/26/99)	230.6 (09/22/99)	229.9 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.12	J	3.37	J I	3.6	J I	<3.61	U V	< EQL	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	<100	U	<100	U	7.5	J I	25.8		> 15	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<200	U	<3.8	JU I	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	62.9		73.1		84.9	J	<200	U	< EQL	1	ug/L	EX
	Chloride	1660		1840		1920		1710		< 4200	2	ug/L	EX
	Chromium, total recoverable	<4	U	5.8		4.2	J	<10	U	< EQL	1	ug/L	EX
	Cobalt, total recoverable	<.917	U	<5	U	4.66	J	<20	U	< EQL	1	ug/L	EX
	Copper, total recoverable	16.4		28.5		119		37		< 1300	1	ug/L	EX
	Fluoride	<100	U	<100	U	309		<200	U	< EQL	2	ug/L	EX
	Manganese, total recoverable	6.66		5.3		4.83	J	4.8	J I	NDD	1	ug/L	EX
	Mercury, total recoverable	<.2	U	<.2	U	<.5	U	<.5	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1680		1150		953		1050		< 2400	5	ug/L	EX
	Sodium, total recoverable	1410		1370		1510		1500		< 4600	1	ug/L	EX
	Sulfate	398	J	<5000	U	508		308	J I	NDD	2	ug/L	EX
	Total phosphates (as P)	<50	U	<10	U	<2500	U	<2500	U	< EQL	5	ug/L	EX
	Uranium, total recoverable												
	Zinc, total recoverable	6.15		29.3		18.4	J	13	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	1.51		5.37	UI	1.31		.495	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.01	UI	6.42		1.39	UI	2.12	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1		.95	J	.45	U	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF
WELL ABP 2A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97764.3 E 44118.8	33.31396 Deg N -81.7406 Deg W	211.1 - 181.1 ft msl	371.9 ft msl	4 " PVC	S	M

SAMPLE DATE	09/02/98	02/12/99	08/21/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	219.9	220.8	223.3	222.16	ft msl
pH	4.4	3.9	4.3	4.4	pH
Sp. Conductance	66	110	68	64	uS/cm
Water temperature	19.7	19.6	21.8	19.1	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	2.9	.6	2	.8	NTU
Volumes purged	2.99	4.23	2.90	2.46	well volume
Sampling code					
Synchronous water level	218.8 (09/21/98)	223.2 (03/29/99)	248.4 (09/23/99)	222.2 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	24.8		27.6		29						ug/L	
	Cyanide	<15.2	U	2.39	J I	<10	U					ug/L	
	Lead, total recoverable	<47	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	2.6	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	1.51	J	1.21	J I	<5	U	.99	J I	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	181		744		114	J	120	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	7600		7600		5640		6220		> 2400	5	ug/L	EX
	Sodium, total recoverable	2140		2040		1820		2200		< 4600	1	ug/L	EX
	Sulfate	<1000	U	<1000	U	190	J	276		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	14.9		5.47		9.7	J	6.22		< 15	1	pCi/L	GP
	Nonvolatile beta	7.15		.84	UIJ	5.04	UIJ	3.55		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	7.4		11.6	J	3.24		3.5		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ABP 3C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97778.2 E 44506.3	33.31462 Deg N -81.7396 Deg W	165.3 - 160.3 ft msl	354.5 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/02/98	02/09/99	08/20/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	197.5	198.18	197.5	196.39	ft msl
pH	11.4	9.1	9.7	9.9	pH
Sp. Conductance	3400	130	124	153	uS/cm
Water temperature	20.2	19.2	19.7	19.1	deg. C
Alkalinity as CaCO3		25	39	40	mg/L
Turbidity	1.4	.3	.8	.5	NTU
Volumes purged	.083	2.84	2.48	2.47	well volume
Sampling code	NX				
Synchronous water level	197.7 (09/21/98)	198.2 (03/29/99)	197.4 (09/23/99)	196.5 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	83.1		28.3		32						ug/L	
	Cyanide	<15.2	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<10	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	2.31	J	1.02	J IKQ	<5	U	1.3	J	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	JU Q	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	36.7		30.9	J KQ	31		29.9	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	39.9		32.4	J KQ	33		32.9	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	149		372		359		290		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4240		3740		3790		3600		> 2400	5	ug/L	EX
	Sodium, total recoverable	3570		3880		4160		4200		< 4600	1	ug/L	EX
	Sulfate	349		345	J	509		222		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.66		.83	U	4.54	J	.996	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	4.14		-.95	UIJ	3.32	UIJ	1.25	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.4		2.48		1.18		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ABP 8C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97855.6 E 43968.7	33.31392 Deg N -81.7411 Deg W	190.6 - 185.5 ft msl	372.1 ft msl	4 " PVC	S	UL
SAMPLE DATE		09/30/98	03/11/99	09/28/99	03/02/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	198.8	197.78	196.29	195.9	ft msl	
pH	11.8	11.1	5.1	11	pH	
Sp. Conductance	3000	1700	143	3412	uS/cm	
Water temperature	22.2	18.8	21	18.6	deg. C	
Alkalinity as CaCO3	622	304	240	761	mg/L	
Turbidity	15.7	14.7	0	11	NTU	
Volumes purged	.116	.757	.720	0	well volume	
Sampling code	NX	X	NX	NX		
Synchronous water level	197.1 (09/21/98)	197.5 (03/29/99)	196.4 (09/23/99)	195.9 (03/20/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	455		316		302						ug/L	
	Cyanide	<15.2	U	<15.2	U	<10	JU Q					ug/L	
	Lead, total recoverable	213		142		<10	U					ug/L	
	Nickel, total recoverable	5.3	J	6.8	J I	<8.56	JU I					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	6.92		<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	9.34		10.2		10		5.02		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable					3740		3090		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen					159		458	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable					29000		18700		> 4600	1	ug/L	EX
	Sulfate					4430	J	2960		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha					10.86		3.09		< 15	1	pCi/L	GP
	Nonvolatile beta					37.95		13.6		< 50	1	pCi/L	GP
	Radium, total alpha-emitting					3.5		1.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AC 3A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100989.1 E 42119.8	33.31782 Deg N -81.7521 Deg W	153.6 - 148.6 ft msl	302.3 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/11/98	02/03/99	08/17/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	209.3	210.7	210.46	209.57	ft msl
pH	5.7	5.4	6.4	5.8	pH
Sp. Conductance	42	43	45	46	uS/cm
Water temperature	20.6	19.5	20.3	18.8	deg. C
Alkalinity as CaCO ₃	12	12	12	3	mg/L
Turbidity	2.4	1.9	.8	1	NTU
Volumes purged	3.55	2.64	3.14	2.33	well volume
Sampling code					
Synchronous water level	208.8 (09/25/98)	210.7 (03/29/99)	210.4 (09/20/99)	209.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12.4		12.6		11.5						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<100	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<50	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<200	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	21.8		14	J	108	J	29	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	710		203		215		213		< 2400	1	ug/L	WA
	Sodium, total recoverable	2990		2760		2770		2490		< 4600	1	ug/L	WA
	Sulfate	1330		1050		889		970		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.851		.41		2.74	J	.419	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.89		.83		2.36		1.89	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		3.92	J	.31	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AMB 4A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104131.6 E 51469.8	33.34004 Deg N -81.7336 Deg W	126.3 - 121.3 ft msl	380.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/24/98	03/16/99	09/22/99	02/23/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	216.68	219.02	214.72	217.3	ft msl
pH	5.4	5.7	6.1	5.9	pH
Sp. Conductance	45	35	32	34	uS/cm
Water temperature	20.3	19.9	19.2	18.8	deg. C
Alkalinity as CaCO3	10	12	1	4	mg/L
Turbidity	3.6	2.3	1.5	1.6	NTU
Volumes purged	.048	2.64	2.62	2.45	well volume
Sampling code	NX				
Synchronous water level	216.7 (09/24/98)	217.5 (03/29/99)	217.7 (09/22/99)	217.2 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	4.7		5.9		5.4		<6.16	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<6.24	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
+	Tetrachloroethylene	64.6		73.1		58.5		62		> 5	5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
+	Trichloroethylene	439		526		429		380		> 5	5	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	152		<20	U	55.7	J	17.8	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	962		1150		953		899		< 2400	1	ug/L	WA
	Sodium, total recoverable	10900		2360		2320		2030		< 4600	1	ug/L	WA
	Sulfate	3260		<5000	U	784	J	616		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.09		-.61	UI	1.05		.0121	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	4.54		-.75	UI	6.6	J	.357	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.26	J	1.2	J	.13	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AMB 4B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104145.6 E 51482.7	33.34009 Deg N -81.7336 Deg W	157.3 - 152.3 ft msl	380.4 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/24/98	03/11/99	08/31/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.28	224.3	222.57	222.8	ft msl
pH	5	4.7	5	4.3	pH
Sp. Conductance	44	30	28	26	uS/cm
Water temperature	20.6	18.6	19.7	19.4	deg. C
Alkalinity as CaCO ₃	3		0	0	mg/L
Turbidity	.9	.5	.4	.4	NTU
Volumes purged	.066	2.29	2.37	2.73	well volume
Sampling code	NX				
Synchronous water level	222.3 (09/24/98)	224.1 (03/29/99)	222.8 (09/22/99)	222.6 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.6	J	5.1		6.1		5.16	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	3.56	J	2.82	J I	3.26	J I	4.5	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<37	U	40.3		292		29	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	950		646		440	J	444		< 2400	1	ug/L	WA
	Sodium, total recoverable	2980		2990		3210		2960		< 4600	1	ug/L	WA
	Sulfate	208	J	<5000	U	1180		402		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.57		4.66	UI	1.85		.636	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.35	UI	4.81	UI	8.38	UI	.463	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		1.72	J	.74		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 4D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104154.7 E 51489	33.34012 Deg N -81.7336 Deg W	233.4 - 213.4 ft msl	380.3 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/24/98	03/16/99	09/22/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.53	231.12	229.9	229.72	ft msl
pH	4.9	4.9	5.4	5.3	pH
Sp. Conductance	48	33	28	29	uS/cm
Water temperature	19.8	20.8	19.5	19.4	deg. C
Alkalinity as CaCO3	2	2	1	3	mg/L
Turbidity	13.2	1.5	1.2	.8	NTU
Volumes purged	.267	2.24	4.25	2.71	well volume
Sampling code	NX				
Synchronous water level	230.5 (09/24/98)	232.4 (03/29/99)	230.5 (09/22/99)	229.6 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.7		6.5		4.9		<4.42	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	2.16	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	6	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	2.8	J	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	PCB 1016							<.97	U	< EQL	.970	ug/L	EX
	PCB 1221							<.97	U	< EQL	.970	ug/L	EX
	PCB 1232							<.97	U	< EQL	.970	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.970	ug/L	EX
	PCB 1248							<.97	U	< EQL	.970	ug/L	EX
	PCB 1254							<.97	U	< EQL	.970	ug/L	EX
	PCB 1260							<.97	U	< EQL	.970	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	Tetrachloroethylene	1.89	J	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	Trichloroethylene	64		24.9		7.37		7.6	J L	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	43.3		332		84.4	J	26.8	J IK	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1370		907		2380		1390		< 2400	5	ug/L	WA
	Sodium, total recoverable	7390		6770		5620		4090		< 4600	1	ug/L	WA
	Sulfate	11100		3830	J	1170		2560		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.09		6.83		17.2		1.99	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	69.8		.74	UI	12.17	J	1.16	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.8	UI	4.65	UI	4.04		2.2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AMB 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103920 E 51624.9	33.33983 Deg N -81.7328 Deg W	242.1 - 222.1 ft msl	369.9 ft msl	4 " PVC	S	M

SAMPLE DATE	09/02/98	02/08/99	08/28/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.66	232.04	231.6	230.78	ft msl
pH	5.5	5.8	6.2	6.5	pH
Sp. Conductance	67	51	54	64	uS/cm
Water temperature	19.8	20.1	22.7	17.5	deg. C
Alkalinity as CaCO3	16	16	19	22	mg/L
Turbidity	13	13.2	8.7	11	NTU
Volumes purged	.163	.626	.164	.539	well volume
Sampling code	NX	NX	NX	NX	
Synchronous water level	231.4 (09/24/98)	232.1 (03/26/99)	231.3 (09/22/99)	230.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.9		6.8		10.1		10.1		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	2.41	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	5.5	J	9.4	J I	6	J I	7.2	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	4.4	J	3.8	J I	3.3	J I	<11.3	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.04	J	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	163		331		334		342		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	470		184		285		575		< 2400	1	ug/L	WA
+	Sodium, total recoverable	19300		12000		10800		8140		> 4600	1	ug/L	WA
+	Sulfate	1920		3040	J	3970		4010		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.55		1.12	UI	1.75	J	.55	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	2.15		3.14		1.82	UIJ	.93	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6		1.4	UIJ	.43		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 7A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.1 E 51591	33.33992 Deg N -81.7330 Deg W	125.6 - 115.6 ft msl	373.6 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/24/98	03/11/99	09/23/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.73	219.25	217.62	217.22	ft msl
pH	4.9	5.2	5.7	6	pH
Sp. Conductance	30	27	23	24	uS/cm
Water temperature	18.8	19.2	19.7	18.9	deg. C
Alkalinity as CaCO3	7	3	2	5	mg/L
Turbidity	.8	.3	.6	.2	NTU
Volumes purged	2.19	2.65	2.59	2.89	well volume
Sampling code					
Synchronous water level	216.7 (09/24/98)	218.4 (03/26/99)	217.6 (09/22/99)	217.1 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.1		4.6		4.5		<5.23	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	4.9	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	9.81	J	<26	U	<26	U	<12.3	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	40.4		34.5		34.8		41		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	127		102		90.3		73		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	30.4		<20	U	43.7	J	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1100		966		837		935		< 2400	1	ug/L	WA
	Sodium, total recoverable	1790		1760		2290		1620		< 4600	1	ug/L	WA
	Sulfate	444	J	<5000	U	789		495		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.283	UI	.49	UI	.85		.689	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.02	UI	.9	UI	1.41		.8	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.7	UI	1.15	J	.1	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AMB 7B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103972 E 51590.3	33.33989 Deg N -81.7330 Deg W	162.9 - 152.9 ft msl	373 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/24/98	03/11/99	09/23/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.62	224.4	216.92	222.56	ft msl
pH	4.8	4.7	5.2	5.3	pH
Sp. Conductance	30	25	22	24	uS/cm
Water temperature	19.2	19.7	19.5	19	deg. C
Alkalinity as CaCO ₃			0	2	mg/L
Turbidity	.7	.1	.4	.9	NTU
Volumes purged	3.20	3.39	2.98	2.39	well volume
Sampling code					
Synchronous water level	222.6 (09/24/98)	223.8 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.5		2.5		2.8		<2.88	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	18.6	J	<100	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<50	U	<26	U	<5.95	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<200	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	6.06		6.25		5.26		5.9		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<40.2	U	9.3	J	23.3	J	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	800		659		593		636		< 2400	1	ug/L	WA
	Sodium, total recoverable	3840		3620		3300		3130		< 4600	1	ug/L	WA
	Sulfate	863	J	1030		836		821		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.583	UI	-.66	U	.7	UI	.611	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.19	UI	-.87	UIJ	.4	UIJ	.778	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	1.72	J	.09	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 9D

SRS Coord	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103585.2 E 51263	33.33850 Deg N -81.7331 Deg W	239.7 - 219.7 ft msl	367.9 ft msl	4 " PVC	S	M

SAMPLE DATE	09/02/98	02/05/99	08/31/99	02/14/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	231.25	231.32	230.85	230.43	ft msl
pH	5.8	5.8	4.9	5.3	pH
Sp. Conductance	42	42	42	43	uS/cm
Water temperature	18.7	17.9	18.4	18.7	deg. C
Alkalinity as CaCO3	7	29	0	8	mg/L
Turbidity	1.8	2.4	.8	.9	NTU
Volumes purged	14.1	16.7	4.04	3.76	well volume
Sampling code					
Synchronous water level	231.1 (09/24/98)	231.7 (03/26/99)	230.8 (09/22/99)	229.9 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.4		2.6		2.8		<2.77	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	JU Q							ug/L	
	PCB 1221			<2.04	JU Q							ug/L	
	PCB 1232			<1.02	JU Q							ug/L	
	PCB 1242			<1.02	JU Q							ug/L	
	PCB 1248			<1.02	JU Q							ug/L	
	PCB 1254			<1.02	JU Q							ug/L	
	PCB 1260			<1.02	JU Q							ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<22.2	U	19.5	J	953		<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	410		174		173		117		< 2400	1	ug/L	WA
+	Sodium, total recoverable	8560		8240		8830		7710		> 4600	1	ug/L	WA
+	Sulfate	4800		5040		4900		5380		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.03		2.9		2.35	J	1.1	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	.301	UI	.87	U	1.59	UIJ	.573	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		2.88		1		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AMB 10A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103326.4 E 51410	33.33816 Deg N -81.7322 Deg W	111.4 - 106.4 ft msl	366.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/02/98	02/08/99	08/31/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.6	217.25	216.78	216.82	ft msl
pH	7.5	6.4	6.6	8.2	pH
Sp. Conductance	82	84	83	80	uS/cm
Water temperature	21.7	19	21	19	deg. C
Alkalinity as CaCO3	27	30	27	24	mg/L
Turbidity	6.6	3.3	4.1	2.6	NTU
Volumes purged	2.15	.399	0	.014	well volume
Sampling code		NX	NX	NX	
Synchronous water level	216.1 (09/24/98)	217.6 (03/26/99)	216.8 (09/22/99)	216.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.9		12.9		10.9		12.1		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	1.54	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	881		938		156		66	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	400		283		263		270		< 2400	1	ug/L	WA
+	Sodium, total recoverable	13700		10500		5540		4910		> 4600	1	ug/L	WA
+	Sulfate	5160		4330	J	3610		3700		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.09		.73	UI	.09	UIJ	.0302	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	9.37		3.62		1.81	UIJ	1.08	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		2.66		-.11	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 10B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103337.3 E 51418.3	33.33820 Deg N -81.7322 Deg W	154.3 - 149.3 ft msl	366.4 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/02/98	02/17/99	08/31/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.56	222.55	221.38	221.43	ft msl
pH	5.3	5.4	6.6	5.5	pH
Sp. Conductance	41	34	39	34	uS/cm
Water temperature	19.2	19.6	20.6	18.5	deg. C
Alkalinity as CaCO3	8	7	10	3	mg/L
Turbidity	.3	.2	.5	.3	NTU
Volumes purged	2.67	2.67	0	2.61	well volume
Sampling code					
Synchronous water level	221 (09/24/98)	222.3 (03/26/99)	221.6 (09/22/99)	221.3 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.3		9.47		9.9		8.51	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	<EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	<EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<5.71	U V	<EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	<EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	PCB 1016			<1.02	U			<.96	U	<EQL	.960	ug/L	EX
	PCB 1221			<2.04	U			<.96	U	<EQL	.960	ug/L	EX
	PCB 1232			<1.02	U			<.96	U	<EQL	.960	ug/L	EX
	PCB 1242			<1.02	U			<1.9	U	<EQL	.960	ug/L	EX
	PCB 1248			<1.02	U			<.96	U	<EQL	.960	ug/L	EX
	PCB 1254			<1.02	U			<.96	U	<EQL	.960	ug/L	EX
	PCB 1260			<1.02	U			<.96	U	<EQL	.960	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	<EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<13	U	<20	U	<146	U	<146	U	<EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	410		192		206		239		<2400	1	ug/L	WA
	Sodium, total recoverable	3770		4170		4260		4400		<4600	1	ug/L	WA
	Sulfate	625	J	<5000	U	865		1060		<3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.267	UI	1.47		.36	UIJ	.013	U	<EQL	1	pCi/L	GP
	Nonvolatile beta	.387	UI	.74	UI	6.68	J	.542	U	<EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6		1.86	UIJ	.18	UI	.1	U	<EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AMB 12D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103602.4 E 51901.6	33.33958 Deg N -81.7314 Deg W	239.4 - 219.4 ft msl	369.8 ft msl	4 " PVC	S	M

SAMPLE DATE	09/23/98	02/12/99	08/30/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	232.45	232.75	231.9	231.17	ft msl
pH	5	6	5.9	5.8	pH
Sp. Conductance	26	20	25	21	uS/cm
Water temperature	19.5	19	20.3	19.5	deg. C
Alkalinity as CaCO3	2	17	8	3	mg/L
Turbidity	.4	2.2	1	.8	NTU
Volumes purged	6.70	5.84	3.25	3.06	well volume
Sampling code					
Synchronous water level	232.2 (09/24/98)	232.7 (03/26/99)	231.7 (09/22/99)	230.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.4		6.7		7.3		7.61	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	3.54	J	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	10.2		<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<35.8	U	293		<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1290		255		841		814		< 2400	1	ug/L	WA
	Sodium, total recoverable	2050		1970		1530		1660		< 4600	1	ug/L	WA
	Sulfate	421	J	<5000	U			601		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.776		.09	UI	2.51		1.08	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	3.14		-.15	UI	8.37	J	1.42	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		1.56	UI	.35	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 13AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103082 E 51396	33.33760 Deg N -81.7317 Deg W	110.9 - 100.9 ft msl	365.1 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	02/17/99	08/31/99	02/15/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	Not Available	218.57	217.45	217.22	ft msl
pH		7.6	7.2	6.7	pH
Sp. Conductance		72	68	75	uS/cm
Water temperature		20	21.3	19.6	deg. C
Alkalinity as CaCO3		22	24	19	mg/L
Turbidity		2.2	2	1.4	NTU
Volumes purged		.013	0	2.26	well volume
Sampling code		X	NX		
Synchronous water level	216.9 (09/24/98)	218.3 (03/26/99)	217.5 (09/22/99)	217 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable			28		19.3		22.2		< 2000	1	ug/L	EX
	Cyanide			<15.2	U	5.21	J I	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable			<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable			<26	U	<26	U	<5.09	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable			<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene			<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
+	Aluminum, total recoverable	360		100				226		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1560		1080				978		< 2400	1	ug/L	WA
	Sodium, total recoverable	5550		3350				3380		< 4600	1	ug/L	WA
	Sulfate	1380		<5000	U			1510		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.68		.92	UI			.384	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.53		2.12				2	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.7		3.91	UIJ			.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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

WELL AMB 15D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104500.6 E 51383.8	33.34072 Deg N -81.7345 Deg W	236.2 - 216.2 ft msl	383.4 ft msl	2 " PVC	V	M

SAMPLE DATE	09/30/98	03/16/99	09/17/99	02/16/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	231.5	232.24	231.2	230.62	ft msl
pH	4.9	4.7	5.3	5.3	pH
Sp. Conductance	42	28	24	26	uS/cm
Water temperature	21.5	27.1	22.3	21	deg. C
Alkalinity as CaCO3	2	2	2	1	mg/L
Turbidity	93.2	10.6	22.4	2.3	NTU
Volumes purged	.407	7.75	7.47	10.8	well volume
Sampling code	NX	X			
Synchronous water level	231.2 (09/24/98)	232.2 (03/26/99)	231.3 (09/22/99)	230.1 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	11.4		7.3		8.8		<4.35	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	JU Q	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	6.5	J	5.3	J I	3.4	J I	<8.41	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6.16		<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
+	Aluminum, total recoverable	872	J	1730		890		637		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	900		857		717		1160		< 2400	5	ug/L	WA
	Sodium, total recoverable	6110		5430		4000		2800		< 4600	1	ug/L	WA
	Sulfate	2240		3600	J	371	J	1620		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.39		4.24	UI	11.07		1.03	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.96		2.92	UI	6.66		.8	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	1.57	J	1.09		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 16D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104268.8 E 51557.5	33.34049 Deg N -81.7336 Deg W	233.4 - 213.4 ft msl	380.4 ft msl	2 " PVC	V	M

<u>SAMPLE DATE</u>	09/09/98	03/10/99	09/02/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.85	231.97	232.9	230.12	ft msl
pH	4.8	4.7	4.8	5.1	pH
Sp. Conductance	24	21	25	24	uS/cm
Water temperature	19.7	20.5	22.3	19.5	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.2	.2	.4	.7	NTU
Volumes purged	13.2	4.00	3.81	10.0	well volume
Sampling code					
Synchronous water level	236 (09/24/98)	231.7 (03/26/99)	230.9 (09/22/99)	230 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.2		4.6		4		<4.35	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	27.8	J I	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<7.83	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016							<.94	U	< EQL	.940	ug/L	EX
	PCB 1221							<.94	U	< EQL	.940	ug/L	EX
	PCB 1232							<.94	U	< EQL	.940	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.940	ug/L	EX
	PCB 1248							<.94	U	< EQL	.940	ug/L	EX
	PCB 1254							<.94	U	< EQL	.940	ug/L	EX
	PCB 1260							<.94	U	< EQL	.940	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	4.13	J	1.54	J I	2.13	J IQ	3.1	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	<20	U	<146	U	59.8	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	890		7120		1030		1400		< 2400	5	ug/L	WA
	Sodium, total recoverable	4710		1500		1910		2920		< 4600	1	ug/L	WA
	Sulfate	2300		<5000	U	352		414		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.17		4.04		7.09		4.02		< 15	1	pCi/L	GP
	Nonvolatile beta	.926		.25	UI	3.31	U	2.41		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.6		4.27	J	1.26		1.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 17A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104056.7 E 51465.4	33.33987 Deg N -81.7335 Deg W	125 - 120 ft msl	379.1 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/29/98	03/16/99	09/22/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	215.65	218.81	217.39	217.03	ft msl
pH	4.8	5	5	4.8	pH
Sp. Conductance	14	20	18	20	uS/cm
Water temperature	19.8	19.2	19.3	18.8	deg. C
Alkalinity as CaCO ₃			0	1	mg/L
Turbidity	1.5	.5	1.1	.4	NTU
Volumes purged	3.46	2.33	2.72	2.34	well volume
Sampling code					
Synchronous water level	216.4 (09/24/98)	217.7 (03/29/99)	217.4 (09/22/99)	216.8 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.8		3.2		2.7		<3.28	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	40.3	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	27.3	J	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1221			<2.04	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1232			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1242			<1.02	JU Q			<2	U	< EQL	.980	ug/L	EX
	PCB 1248			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1254			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1260			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	1,1,2,2-Tetrachloroethane	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	22.8		26		26.3		25		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	241		208		176		170		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	60.1		<20	U	<200	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1250		1130		868		926		< 2400	1	ug/L	WA
	Sodium, total recoverable	1920		2010		2040		1680		< 4600	1	ug/L	WA
	Sulfate	478		<5000	U	514		452		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.79	UI	-.13	UI	1.21		.122	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.48	UI	-1.24	UI	10.04		.497	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	8.29		.81	UI	.32	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 18A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103988.8 E 51418.8	33.33964 Deg N -81.7334 Deg W	136.4 - 131.4 ft msl	377.3 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/25/98	03/11/99	09/23/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.06	218.87	217.21	216.96	ft msl
pH	5.2	4.8	5.2	4.5	pH
Sp. Conductance	26	25	21	23	uS/cm
Water temperature	19	18.4	19.3	18.7	deg. C
Alkalinity as CaCO3		1	0	1	mg/L
Turbidity	.3	.4	.7	.2	NTU
Volumes purged	2.07	2.63	2.59	2.64	well volume
Sampling code					
Synchronous water level	216.2 (09/24/98)	218.1 (03/26/99)	217.2 (09/22/99)	216.8 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.1		5.7		5.4		44.7		< 2000	1	ug/L	EX
	Cyanide	<15.2	UJ	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<6.24	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1221			<2.04	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1232			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1242			<1.02	JU Q			<1.9	U	< EQL	.960	ug/L	EX
	PCB 1248			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1254			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1260			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	4.59	J	<5	U	2.36	J I	4.6	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	36.8		27.8		19.3		24		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	21.6		<55.5	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1050		1110		813		795		< 2400	1	ug/L	WA
	Sodium, total recoverable	2100		2270		2180		1900		< 4600	1	ug/L	WA
	Sulfate	<336	U	<5000	U	471	J	432		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.089	UI	.86	UI	.28	UIJ	.106	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.088	UI	.211	UI	1.64	UI	.482	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.1	UI	.6		.35	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 18C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103983.4 E 51432.8	33.33965 Deg N -81.7334 Deg W	214.2 - 209.2 ft msl	376 ft msl	2 " PVC	V	UL

<u>SAMPLE DATE</u>	09/09/98	02/16/99	08/28/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.88	231.7	230.9	229.9	ft msl
pH	5.9	4.9	5.2	4.1	pH
Sp. Conductance	21	16	20	20	uS/cm
Water temperature	19.3	19.8	21.4	19.3	deg. C
Alkalinity as CaCO ₃	1	2	3	0	mg/L
Turbidity	5.8	2.7	3.8	4.3	NTU
Volumes purged	7.70	5.49	7.69	7.77	well volume
Sampling code					
Synchronous water level	230.8 (09/24/98)	231.6 (03/26/99)	230.7 (09/22/99)	229.7 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.9		3.7		<4.1	U V	4.25	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	52.4		6.9	J I	<47	U	15.7		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<6.96	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1221			<2.02	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1232			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1242			<1.01	U			<1.9	U	< EQL	.970	ug/L	EX
	PCB 1248			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1254			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1260			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	73.2		202		87.1	J	63.8	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	740		1030		884		763		< 2400	1	ug/L	WA
	Sodium, total recoverable	4700	J	3700		1960		1960		< 4600	1	ug/L	WA
	Sulfate	<1120	U	<5000	U	708		629		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.079	UI	.92		1.07		1.39	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	.893	UI	-.92	UI	.91	UI	.676	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	2.31	UIJ	1.07		.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL AMB 19C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102941.1 E 51503.7	33.33747 Deg N -81.7312 Deg W	196.7 - 191.7 ft msl	363.7 ft msl	2 " PVC	V	UL

<u>SAMPLE DATE</u>	09/09/98	02/09/99	08/31/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.7	228.93	228.08	227.34	ft msl
pH	5.8	5.1	5.8	5	pH
Sp. Conductance	54	48	47	46	uS/cm
Water temperature	18.6	19.3	19.3	18.3	deg. C
Alkalinity as CaCO3	9	9	13	2	mg/L
Turbidity	1.2	.6	.6	.5	NTU
Volumes purged	4.98	7.26	3.21	5.00	well volume
Sampling code					
Synchronous water level	228.6 (09/24/98)	229.1 (03/26/99)	228.1 (09/22/99)	327.3 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	1.2	J	<1.4	U V	2.2		<1.8	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	2.5	J I	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	<47	U	<47	U	<47	U	98.8		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<22.4	U	74.7		<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	420		116		68		71		< 2400	1	ug/L	WA
+	Sodium, total recoverable	11000		10000		9440		9160		> 4600	1	ug/L	WA
+	Sulfate	8760		7700		6540		6160		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.493	UI	-.12	UI	1.43		.425	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.259	UI	.04	UI	1.07	UI	.756	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.1	UI	4.91	UIJ	.14	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AOB 1

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 101910.7 E 50485.9	33.33353 Deg N -81.7319 Deg W	248.5 - 218.5 ft msl	341.1 ft msl	4 " PVC	S	M

SAMPLE DATE	09/11/98	02/05/99	08/27/99	02/01/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	234.9	234.56	233.5	232.12	ft msl
pH	5.1	5.4	5	5.1	pH
Sp. Conductance	40	48	39	36	uS/cm
Water temperature	19.8	18.1	20	19.1	deg. C
Alkalinity as CaCO ₃		1	0	1	mg/L
Turbidity	2	5	.7	1	NTU
Volumes purged	3.74	9.36	3.89	2.48	well volume
Sampling code					
Synchronous water level	233.8 (09/25/98)	234.4 (03/26/99)	233.4 (09/22/99)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	10.7		9.8		10.6						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	5.6	J I	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	.29	J I	NDD	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	5.61		17.9		45.1	J Q	49.4	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	3.92	J	15.8		39.8	J Q	45.4	J	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<39	U	8.5	J	<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1590		1710		1240		1380		< 2400	5	ug/L	WA
	Sodium, total recoverable	3010		3380		3930		4210		< 4600	1	ug/L	WA
	Sulfate	247	J	595	J	582		1640		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.85		.16	U	2.73	J	.392	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.303	UI	-3.39	U	.89	UIJ	.345	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4	UI	2.2		.77		.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL AOB 2

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102009.8 E 50724.7	33.33413 Deg N -81.7314 Deg W	250.2 - 220.2 ft msl	345.4 ft msl	4 " PVC	S	M

SAMPLE DATE	09/11/98	02/05/99	08/27/99	02/01/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	234.3	231.5	233.1	230.6	ft msl
pH	6.4	5.4	5.1	5.3	pH
Sp. Conductance	22	20	19	20	uS/cm
Water temperature	20.4	18.6	20.6	18.7	deg. C
Alkalinity as CaCO3	2	3	0	1	mg/L
Turbidity	2.8	10.1	2.3	.7	NTU
Volumes purged	3.51	8.24	3.60	2.99	well volume
Sampling code					
Synchronous water level	()	234.9 (03/26/99)	233 (09/22/99)	231.2 (03/30/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.9		3.6		<3.3	U V					ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	18.5	J I	5.4	J I					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<5	JU Q	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<39.8	U			<146	U	18.5	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1240				1220		922		< 2400	1	ug/L	WA
	Sodium, total recoverable	2710				1840		2410		< 4600	1	ug/L	WA
	Sulfate	439	J			348		515		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.842				2.21	J	.554	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.39	UI			1.87	J	.315	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.5				.71		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 1A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105535 E 52614	33.34501 Deg N -81.7333 Deg W	247.2 - 217.2 ft msl	349.1 ft msl	4 " PVC	S	M/GC

SAMPLE DATE 09/29/98 02/22/99 09/07/99 03/06/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	236.45	236.37	235.95	236.02	ft msl
pH	4.9	5.8	5.7	5.9	pH
Sp. Conductance	76	73	66	65	uS/cm
Water temperature	19.8	18.1	20.7	19.1	deg. C
Alkalinity as CaCO ₃	11	8	8	14	mg/L
Turbidity	1.8	1.8	.7	.9	NTU
Volumes purged	1.84	2.49	11.3	3.11	well volume
Sampling code					
Synchronous water level	236.6 (09/25/98)	237.3 (03/26/99)	236.3 (09/22/99)	235.9 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6		7.6		4.7						ug/L	
	Cyanide	<15.2	UJ	72.3		<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	2.12	J	<5	U	1.53	J I	1.15	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	1.21	J	<5	U	1.13	J I	1.43	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<34.9	U	28.4		<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	680		645		962		1390		< 2400	5	ug/L	WA
+	Sodium, total recoverable	12800		12100		12000		12000		> 4600	1	ug/L	WA
+	Sulfate	5970		7490		4960		6800		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.679	UI	-.55	UIJ	2.09		.643	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.88		-2.08	UIJ	4.3		1.15	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	1.01		1.03		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 2AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 105550.5 E 52881.7	33.34548 Deg N -81.7326 Deg W	240.1 - 220.2 ft msl	355.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/16/98	02/22/99	09/07/99	03/06/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	238.1	238.22	237.29	235.83	ft msl
pH	6.2	6	5.9	5.8	pH
Sp. Conductance	60	58	55	53	uS/cm
Water temperature	19.6	18.4	20.8	18.7	deg. C
Alkalinity as CaCO3	16	20	14	5	mg/L
Turbidity	1.1	.2	.3	.7	NTU
Volumes purged	3.79	3.08	3.97	5.04	well volume
Sampling code					
Synchronous water level	237.2 (09/25/98)	238.2 (03/26/99)	237 (09/22/99)	235.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	7		7		7						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	2.7	J I					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	1.68	J I	<5	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<31.9	U	46.5		<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	460		249		400		489		< 2400	1	ug/L	WA
+	Sodium, total recoverable	12300		11600		11300		10100		> 4600	1	ug/L	WA
+	Sulfate	4870		4980	J	3840		3280		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.21		.81	UI	3.9		2.59	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	3.04		-.25	UI	127.85	J	1.36	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.1		1.49		.91		.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 2CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105540.2 E 52862.7	33.34543 Deg N -81.7327 Deg W	183.1 - 173.1 ft msl	355.6 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/24/98	02/12/99	09/07/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.6	221.6	220.2	221.68	ft msl
pH	5.6	5.8	5.7	5.7	pH
Sp. Conductance	61	62	55	50	uS/cm
Water temperature	20.6	19.1	20	19.8	deg. C
Alkalinity as CaCO3	20	13	9	9	mg/L
Turbidity	.8	.7	.5	.2	NTU
Volumes purged	3.16	2.11	3.09	3.18	well volume
Sampling code					
Synchronous water level	221.6 (09/25/98)	221.6 (03/26/99)	220.8 (09/22/99)	221.5 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>1Q99</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	48.7		57.4		41.6						ug/L	
	Cyanide	<15.2	U	1.72	J I	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	8.01		5.46		5.47		4.98	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	42.6		26.8		26.9		30.8	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLPEPA</u>	<u>3Q97</u>	<u>CLPEPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	75				32.7	J	30.4	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1330				1160		1120		< 2400	5	ug/L	WA
+	Sodium, total recoverable	2450	J			5010		4850		> 4600	1	ug/L	WA
	Sulfate	372	J			458		364		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.44				1.88		.894	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.05	UI			4.04	J	1.46	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3	UI			.49		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 3AR

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 105605.1 E 53115	33.34599 Deg N -81.7321 Deg W	243.1 - 223.1 ft msl	341.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/16/98	02/22/99	09/07/99	03/06/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	237	239.07	237.85	236.29	ft msl
pH	6.1	6.1	6	5.5	pH
Sp. Conductance	58	64	55	54	uS/cm
Water temperature	20.9	18	20.5	19.3	deg. C
Alkalinity as CaCO ₃	2	18	10	6	mg/L
Turbidity	1.5	.5	.3	1.2	NTU
Volumes purged	4.86	3.07	4.68	3.14	well volume
Sampling code					
Synchronous water level	237.6 (09/25/98)	238.8 (03/26/99)	237.5 (09/22/99)	236.1 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	7.1		9.4		9.9						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<35	U	20.4		35.7	J	106	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	460		581		569		894		< 2400	1	ug/L	WA
+	Sodium, total recoverable	11300		10900		11400		10700		> 4600	1	ug/L	WA
+	Sulfate	5200		4870	J	4900		4290		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.107	UI	.32	UI	1.45		1.24	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	.889	UI	-1.13	UI	3.78	J	1.76	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	.9		.38	UI	.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 3CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105614.5 E 53130.4	33.34603 Deg N -81.7321 Deg W	184 - 174 ft msl	341.5 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/24/98	02/11/99	09/07/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.25	221.05	219.5	221.42	ft msl
pH	4.9	5.2	5.1	5.3	pH
Sp. Conductance	45	42	44	43	uS/cm
Water temperature	19.5	19	19.9	19.8	deg. C
Alkalinity as CaCO3	2	1	2	3	mg/L
Turbidity	.5	.2	.4	.2	NTU
Volumes purged	3.47	2.70	2.83	2.87	well volume
Sampling code					
Synchronous water level	221.3 (09/25/98)	221 (03/26/99)	220.2 (09/22/99)	221.3 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	503		472		419						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	6.51		<5	U	3.99	J I	3.79	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	20.6		17.4		20.7		15.5	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U			55.6	J	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	740				1060		1220		< 2400	5	ug/L	WA
	Sodium, total recoverable	4220	J			4110		4500		< 4600	1	ug/L	WA
	Sulfate	587	J			670		600		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.971				1.9		.95	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.2	UI			3.41	J	1.79	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3	UI			.86		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105935.7 E 53177.2	33.34682 Deg N -81.7326 Deg W	256.1 - 226.1 ft msl	335.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/29/98	02/22/99	08/31/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	233.7	238.55	237.4	236.27	ft msl
pH		6	5.7	5.6	pH
Sp. Conductance		50	45	48	uS/cm
Water temperature		19.9	20.6	19.2	deg. C
Alkalinity as CaCO3		17	8	4	mg/L
Turbidity		11.6	8.1	14.8	NTU
Volumes purged		2.76	2.63	2.63	well volume
Sampling code	NP				
Synchronous water level	237.1 (09/25/98)	238.5 (03/26/99)	237.2 (09/22/99)	236.1 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			8.3		8.5						ug/L	
	Cyanide			<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable			<47	U	<47	U					ug/L	
	Nickel, total recoverable			2.8	J I	<26	U					ug/L	
	Selenium, total recoverable			<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane			<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene			<5	U	<5	JU Q	.73	J I	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	636	J	57.2				150		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	990		900				898		< 2400	1	ug/L	WA
+	Sodium, total recoverable	9180		11200				6950		> 4600	1	ug/L	WA
+	Sulfate	4550		5100				3230		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	19.2		.41	UI			1.06	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	539		.3	UI			.657	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	5.3		1.14				.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 5AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105900.5 E 52854.4	33.34621 Deg N -81.7334 Deg W	243.8 - 223.8 ft msl	347 ft msl	4 " PVC	S	M

SAMPLE DATE	09/24/98	02/11/99	09/09/99	03/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	235.99	236.53	235.63	233.51	ft msl
pH	5.2	6	5.4	6	pH
Sp. Conductance	63	60	61	64	uS/cm
Water temperature	23.2	21.5	24.5	18.6	deg. C
Alkalinity as CaCO ₃	17	12	14	11	mg/L
Turbidity	10.2	13.5	4.2	6.7	NTU
Volumes purged	.883	.845	.910	.159	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	236 (09/25/98)	236.4 (03/26/99)	235.6 (09/22/99)	233.5 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4		3.1		2.5						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	4.7	J I					ug/L	
	Nickel, total recoverable	<26	U	2.8	J I	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	1.89	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	103		79.9		39.4		17.8	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<44.3	U	38.4		126	J	41.6	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	520		458		530		626		< 2400	1	ug/L	WA
+	Sodium, total recoverable	10700		11200		10900		10400		> 4600	1	ug/L	WA
+	Sulfate	6060		8090		5900		7300		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.667	UI	.4	UI	.85	UI	4.01		< 15	1	pCi/L	GP
	Nonvolatile beta	.571	UI	-1.2	UI	.7	UIJ	3.14	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	1.51	J	.25	UI	.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 5C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105884.8 E 52837.8	33.34615 Deg N -81.7334 Deg W	175.1 - 165.1 ft msl	347.3 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/24/98	02/11/99	09/22/99	03/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.5	221.22	220.63	220.28	ft msl
pH	5.7	6	6	6.1	pH
Sp. Conductance	38	44	42	45	uS/cm
Water temperature	19.5	19.2	19.9	18.9	deg. C
Alkalinity as CaCO3	2	16	14	11	mg/L
Turbidity	1	1.5	1	1	NTU
Volumes purged	3.66	2.37	2.84	2.77	well volume
Sampling code					
Synchronous water level	221.5 (09/25/98)	221.2 (03/26/99)	220.5 (09/22/99)	220.3 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.2		10.1		10.1						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	89.5		79.3		60		54.7	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	177		167		143		186	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	7.2	J	<146	U	41.3	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1160		1470		1090		1060		< 2400	5	ug/L	WA
	Sodium, total recoverable	2420	J	2180		1920		2280		< 4600	1	ug/L	WA
	Sulfate	<241	U	<5000	U	392		339	J I	NDD	1	ug/L	WA
Radionuclides													
	Gross alpha	.436	UI	-.13	UI	.33	UI	.664	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.16		1	UI	.24	UIJ	.703	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3	UI	2.87	UIJ	.34		0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 6A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105716 E 52675.9	33.34551 Deg N -81.7335 Deg W	248.2 - 218.2 ft msl	350.2 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/29/98	02/22/99	09/22/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.92	235.95	235.2	228.98	ft msl
pH	5	5.5	5.6	5.6	pH
Sp. Conductance	100	85	71	67	uS/cm
Water temperature	20.3	18.6	19.4	19.3	deg. C
Alkalinity as CaCO3	5	7	5	6	mg/L
Turbidity	2.5	2.5	1.4	1.6	NTU
Volumes purged	3.33	3.21	4.90	2.88	well volume
Sampling code					
Synchronous water level	238.3 (09/25/98)	228.8 (03/26/99)	229 (09/22/99)	228.8 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.5		3.7		2.9						ug/L	
	Cyanide	<15.2	UJ	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	7.2	J	3.5	J I	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	1.42	J	<5	U	.913	J I	.68	J I	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	6.5		2.75	J I	3.48	J I	5.59	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<120	U	14.8	J	<146	U	17.1	J I	NDD	1	ug/L	WA
+	Nitrate-nitrite as nitrogen	2000		240		6020		4170		> 2400	10	ug/L	WA
+	Sodium, total recoverable	15000		11600		18400		12400		> 4600	1	ug/L	WA
+	Sulfate	7520		4990	J	5640		5120		> 3000	1	ug/L	WA
Radionuclides													
+	Gross alpha	2.03		.37	UI	6.84		25.6		> 15	1	pCi/L	GP
	Nonvolatile beta	.941	UI	-1.2	UI	2.04	UI	6		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.4	J	1.4		2.53		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 6AA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105727 E 52643.9	33.34549 Deg N -81.7336 Deg W	82.8 - 78.1 ft msl	354.2 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/30/98	02/11/99	09/07/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	213.9	217.6	215.91	216.8	ft msl
pH	9.9	10.2	10.5	10.1	pH
Sp. Conductance	100	130	183	110	uS/cm
Water temperature	19.4	19.2	20.3	19.5	deg. C
Alkalinity as CaCO3	32	41	52	47	mg/L
Turbidity	2.7	.4	1	.6	NTU
Volumes purged	3.91	2.54	2.48	2.74	well volume
Sampling code					
Synchronous water level	214.9 (09/25/98)	217.1 (03/26/99)	216.5 (09/22/99)	216.7 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12.8		11.7		14.4						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<100	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	14	J	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<200	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<125	U	<100	U	<125	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<125	U	<100	U	<125	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<125	U	<100	U	<125	U	<10	JU L	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<100	U	<125	U	<10	JU L	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	U	<100	U	<125	U	<10	JU L	< EQL	10	ug/L	ML
	Tetrachloroethylene	17.2		<100	U	<125	U	11.5	J L	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<100	U	<125	U	<10	JU L	< EQL	10	ug/L	ML
	Trichloroethylene	2320		2210		1860		2190	J L	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	273		258		239		194		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1550		1730		1390		1420		< 2400	5	ug/L	WA
	Sodium, total recoverable	3450		3210		3200		3240		< 4600	1	ug/L	WA
	Sulfate	456		<5000	U	541	J	580		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.56	UI	1.4	UI	1.52		.611	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.46		1.18	UI	3.1		.423	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		1.78	UIJ	.38		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105736.8 E 52655.9	33.34553 Deg N -81.7336 Deg W	178.5 - 173.8 ft msl	353.6 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/24/98	02/11/99	09/22/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.25	222.98	221.89	221.85	ft msl
pH	5.1	5.2	5.3	5.4	pH
Sp. Conductance	30	31	29	31	uS/cm
Water temperature	19.9	19.5	19.9	19.9	deg. C
Alkalinity as CaCO ₃	1		0	1	mg/L
Turbidity	.8	.5	.6	.7	NTU
Volumes purged	3.94	2.58	3.14	3.43	well volume
Sampling code					
Synchronous water level	222.3 (09/25/98)	222.4 (03/26/99)	221.7 (09/22/99)	221.7 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.5		11.2		9.7						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	39.4		37.8		33.7		30.9	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	56.3		67.1		86.6		115	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	23.2		<146	U	<25.1	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	700		739		708		757		< 2400	1	ug/L	WA
	Sodium, total recoverable	2500	J	2390		2070		2070		< 4600	1	ug/L	WA
	Sulfate	<211	U	<5000	U	333	J	282	J I	NDD	1	ug/L	WA
Radionuclides													
	Gross alpha	.679		.82	UI	2.36		.66	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.4		.88	UI	3.7	J	1.12	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6		4.66	UIJ	.87		.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 6TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105749.5 E 52671.3	33.34558 Deg N -81.7336 Deg W	40 - 34.5 ft msl	352.9 ft msl	4 " PVC	S	CBA

<u>SAMPLE DATE</u>	09/24/98	02/11/99	09/09/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	208.8	213.55	212.7	212.63	ft msl
pH	7.9	8	7.8	9.1	pH
Sp. Conductance	97	94	82	104	uS/cm
Water temperature	20.6	19	22.1	20.2	deg. C
Alkalinity as CaCO3	28	26	28	42	mg/L
Turbidity	1	.9	2.9	.6	NTU
Volumes purged	.009	.017	.009	.009	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	208.8 (09/25/98)	213 (03/26/99)	212.6 (09/22/99)	212.5 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Flit.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.3		17.5		13.8						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	5.5	J I					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<25	U	<25	U	<5	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<5	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<5	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<5	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<5	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	7.62	J	<25	U	4.36	J I	15.2		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<5	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	766		694		718	L	937		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Flit.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	132		87.5		78.3	J	68.2	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1300		1650		1250		1340		< 2400	5	ug/L	WA
	Sodium, total recoverable	7600		6490		7250		3110		< 4600	1	ug/L	WA
	Sulfate	3430		2590	J	2340		1480		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.783	UI	-1.12	UI	1.63		.628	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	5.61		5.24		10.04	J	1.59	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		3.08	UIJ	.29		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 8

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106381.6 E 53136.6	33.34774 Deg N -81.7336 Deg W	226.6 - 206.6 ft msl	349 ft msl	4 " PVC	S	M
SAMPLE DATE	09/16/98	03/10/99	08/28/99	02/01/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	232.9	234.31	233.13	232.13	ft msl	
pH	5.3	5	5	4.2	pH	
Sp. Conductance	40	42	43	42	uS/cm	
Water temperature	20	20.2	19.8	18.6	deg. C	
Alkalinity as CaCO ₃	1	1	0	0	mg/L	
Turbidity	6.8	2.7	1.5	1.1	NTU	
Volumes purged	14.6	5.96	3.06	3.24	well volume	
Sampling code						
Synchronous water level	232.9 (09/25/98)	233.8 (03/26/99)	232.9 (09/22/99)	232 (03/20/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	1.4	J	<1.5	U V	<2.1	U V					ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	3.37	J	1.7	J I	.99	J I	1.82	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<49.7	U	<20	U	27.8	J	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	810		1370		627		842		< 2400	1	ug/L	WA
+	Sodium, total recoverable	6100		1430		7240		6990		> 4600	1	ug/L	WA
+	Sulfate	4550		<5000	U	6730		5440		> 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.91		1.83		.57	UI	.539	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.12		2.93	J	4.7	J	1.37	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6		3.19	UIJ	1.2		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL ASB 8B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 106362.3 E 53109.6	33.34765 Deg N -81.7336 Deg W	128.4 - 122.8 ft msl	349.8 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/02/98	02/11/99	08/26/99	02/29/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	211	212.1	211.45	210.98	ft msl
pH	5.1	5	5	5	pH
Sp. Conductance	24	24	20	20	uS/cm
Water temperature	21	18.2	19.7	18.3	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1.8	.4	.2	.6	NTU
Volumes purged	2.29	2.24	2.74	2.25	well volume
Sampling code					
Synchronous water level	210.2 (09/25/98)	212.1 (03/26/99)	211.3 (09/22/99)	211 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	4.6		3.6		<4.3	U V					ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<100	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<50	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<25	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<25	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<25	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene			<25	U	<5	JU Q					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<25	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	1.44	J	<25	U	<5	JU Q	1.76	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<25	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene		L	341		192	J Q	107	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	27.6	J	<20	U	22.6	J	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1100		2200		1280		775		< 2400	1	ug/L	WA
	Sodium, total recoverable	2460		2510		2110		1680		< 4600	1	ug/L	WA
	Sulfate	162	J	<5000	U	287	J	384		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.23		2.32		3.79	J	.48	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.47		1.44	UI	8.25	J	1.41	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.8		2.36	UIJ	.47		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 8C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106354.4 E 53101	33.34762 Deg N -81.7336 Deg W	188.3 - 182.7 ft msl	349.7 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/02/98	02/11/99	08/26/99	02/29/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.6	219.49	219.05	218.33	ft msl
pH	5.2	5.1	5.1	4.9	pH
Sp. Conductance	30	32	30	29	uS/cm
Water temperature	20.1	18.3	19.7	18.2	deg. C
Alkalinity as CaCO ₃	1		0	0	mg/L
Turbidity	1	.7	.6	.4	NTU
Volumes purged	5.81	2.58	5.57	3.44	well volume
Sampling code					
Synchronous water level	218.2 (09/25/98)	219.6 (03/26/99)	218.9 (09/22/99)	218.5 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.7		46.3		9.1						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<250	U	<125	JU Q	<20	U	< EQL	20	ug/L	ML
	1,1-Dichloroethane	<5	U	<250	U	<125	JU Q	<20	U	< EQL	20	ug/L	ML
	1,1-Dichloroethylene	<5	U	<250	U	<125	JU Q	<20	U	< EQL	20	ug/L	ML
	trans-1,2-Dichloroethylene			<250	U	<125	JU Q					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<250	U	<125	JU Q	<20	U	< EQL	20	ug/L	ML
	Tetrachloroethylene	25.4		<250	U	<125	JU Q	<20	U	< EQL	20	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<250	U	<125	JU Q	<20	U	< EQL	20	ug/L	ML
	Trichloroethylene		L	5880		3420	J Q	2080	J K	NDD	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	43.5	J	48.3	J	19.3	J	19.5	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1020		2140		1700		1740		< 2400	5	ug/L	WA
	Sodium, total recoverable	4470		3560		3110		2600		< 4600	1	ug/L	WA
	Sulfate	150	J	<5000	U	286	J	275	J I	NDD	1	ug/L	WA
Radionuclides													
	Gross alpha	2.3		9.74		2.29	J	1.15	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	3.49		11.4		5.93	J	3.78		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.2		1.3		.55		.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 8TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106375.8 E 53124.7	33.34771 Deg N -81.7336 Deg W	24.6 - 19.4 ft msl	349.6 ft msl	4 " CS	S	CBA

SAMPLE DATE	09/16/98	02/22/99	08/28/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	211.7	215.26	214.65	214.58	ft msl
pH	5.6	4.8	5.2	4.9	pH
Sp. Conductance	16	22	21	21	uS/cm
Water temperature	20.2	18.6	19.7	18.5	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	3.6	3.2	1.5	1.1	NTU
Volumes purged	3.21	2.53	2.92	2.26	well volume
Sampling code					
Synchronous water level	212.6 (09/25/98)	215.1 (03/26/99)	214.4 (09/22/99)	214.3 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.9		8.3		8.8						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	9.9	J	14	J I	12.8	J I					ug/L	
	Nickel, total recoverable	<26	U	<50	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<200	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<146	U	<20	U	<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1440		1300		1060		1100		< 2400	5	ug/L	WA
	Sodium, total recoverable	1630		1480		1390		1380		< 4600	1	ug/L	WA
	Sulfate	318	J	<5000	U	288	J	231	J I	NDD	1	ug/L	WA
Radionuclides													
	Gross alpha	1.79		1.33		1.37		.336	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.8		.5	UI	2	J	1.57	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.33		2.24	UIJ	.27	UI	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 9B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104564.7 E 54215.3	33.34548 Deg N -81.7272 Deg W	164.4 - 158.8 ft msl	309 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/29/98	02/17/99	09/09/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	217.85	220.36	219.59	219.39	ft msl
pH	9	6.8	6.8	6.4	pH
Sp. Conductance	98	85	80	69	uS/cm
Water temperature	18.9	19.1	19.5	19	deg. C
Alkalinity as CaCO ₃	90	12	23	32	mg/L
Turbidity	1.1	.2	1	.2	NTU
Volumes purged	3.47	3.23	2.47	2.78	well volume
Sampling code					
Synchronous water level	218.8 (09/25/98)	220.2 (03/26/99)	219.5 (09/22/99)	219.4 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	50		62		59.3						ug/L	
	Cyanide	<15.2	UJ	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	7.2		6.93		9.24		9.67	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	6.84		7.27		9.57		10.6	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<25.2	U	35.5		<146	U	18.5	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1240		832		467		628		< 2400	1	ug/L	WA
	Sodium, total recoverable	2510		2600		2130		2370		< 4600	1	ug/L	WA
	Sulfate	123	J	<5000	U	311	J	264	J I	NDD	1	ug/L	WA
Radionuclides													
	Gross alpha	1.77		5.77		2.68		2.08	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.943	UI	3.89		1.14	UI	.48	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.9		1.5		.83		1.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 9C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104568.1 E 54201.1	33.34547 Deg N -81.7272 Deg W	182.9 - 178.2 ft msl	309.9 ft msl	4 " PVC	S	UL
SAMPLE DATE		09/29/98	02/17/99	09/09/99	03/06/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	218.4	220.75	219.77	219.8	ft msl	
pH	5.4	5.2	5.6	5.4	pH	
Sp. Conductance	34	34	39	32	uS/cm	
Water temperature	19.1	18.8	19.3	19.2	deg. C	
Alkalinity as CaCO ₃	1	2	18	4	mg/L	
Turbidity	1.5	1	2	.7	NTU	
Volumes purged	5.69	3.64	2.77	2.99	well volume	
Sampling code						
Synchronous water level	219 (09/25/98)	220.4 (03/26/99)	219.7 (09/22/99)	219.8 (03/22/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	20.4		19.4		18.3						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	7.1	J I					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	15.3		11.8		10.9		11.6	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	16.1		11.8		9.98		11.4	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	13.9	J	<146	U	22.7	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	900		1010		729		773		< 2400	1	ug/L	WA
	Sodium, total recoverable	2830	J	2710		2610		2570		< 4600	1	ug/L	WA
	Sulfate	137	J	<5000	U	323	J	272	J I	NDD	1	ug/L	WA
Radionuclides													
	Gross alpha	1.64		1.08		2.57		.799	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.51	UI	-.09	UI	1.25	UI	.964	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		1.38	UIJ	.44	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL ASB 10CR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105655.4 E 52969.7	33.34586 Deg N -81.7326 Deg W	181.7 - 171.7 ft msl	349.2 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/24/98	02/11/99	09/07/99	03/06/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.48	221.52	219.89	221.52	ft msl
pH	4.7	5.4	4.3	5.3	pH
Sp. Conductance	45	42	43	41	uS/cm
Water temperature	20.1	19.3	19.8	19.5	deg. C
Alkalinity as CaCO3			0	1	mg/L
Turbidity	.4	.2	.3	.3	NTU
Volumes purged	2.80	2.40	2.54	3.50	well volume
Sampling code					
Synchronous water level	221.5 (09/25/98)	221.3 (03/26/99)	220.6 (09/22/99)	221.4 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13		8.6		8.6						ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<10	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<10	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<10	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<10	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<10	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	6.71	J	<5	U	3.86	J I	3.35	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<10	U	<5	U	<5	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	223		192		179		179	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U			16.8	J	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1370				1260		1260		< 2400	5	ug/L	WA
+	Sodium, total recoverable	38500	J			5080		4910		> 4600	1	ug/L	WA
	Sulfate	11700				400		399		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.04				2.21		.827	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.16	UI			13.23	J	2.5		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.9				.41		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MCB 5C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97315.1 E 44862.8	33.31418 Deg N -81.7377 Deg W	161.2 - 156.2 ft msl	339.1 ft msl	4 " PVC	V	UL

<u>SAMPLE DATE</u>	09/16/98	03/05/99	09/24/99	03/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	195.32	195.8	194.82	194.18	ft msl
pH	6.1	9	9.2	8.5	pH
Sp. Conductance	83	140	126	126	uS/cm
Water temperature	22.4	19.5	20.7	19.5	deg. C
Alkalinity as CaCO3	25	48	49	46	mg/L
Turbidity	1.1	4.3	.7	.6	NTU
Volumes purged	4.00	2.51	2.70	2.18	well volume
Sampling code					
Synchronous water level	195.6 (09/21/98)	195.9 (03/29/99)	194.6 (09/23/99)	194.3 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			62.3		77.8						ug/L	
	Cyanide			<15.2	U	<10	U					ug/L	
	Lead, total recoverable			<47	U	<10	U					ug/L	
	Nickel, total recoverable			<26	U	<50	U					ug/L	
	Selenium, total recoverable			<66	U	<10	U					ug/L	
Organics													
	Chlorobenzene			<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane			<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene			<5	U	<5	U	.97	J I	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<5	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene			69.8		70		74.8		> 5	1	ug/L	ML
	1,1,1-Trichloroethane			<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene			64		61		59		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	128	J	67				173	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4200		4320				3790		> 2400	5	ug/L	EX
+	Sodium, total recoverable	6210		5140				5610		> 4600	1	ug/L	EX
	Sulfate	881	J	<5000	U			960		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.57	J	3.53		3.04		1.64	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	5.09		4.26		5.68	J	5.07		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	2.22	UIJ	.5	UI	1.2	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MCB 6C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97413.1 E 45207.7	33.31496 Deg N -81.7370 Deg W	170 - 165 ft msl	332.1 ft msl	4 " PVC	S	UL
SAMPLE DATE	08/20/98	02/09/99	08/23/99	02/15/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	195.8	196.7	195.8	194.74	ft msl	
pH	6.2	5.9	7.5	6.3	pH	
Sp. Conductance	67	74	74	54	uS/cm	
Water temperature	21	18.8	20	18.7	deg. C	
Alkalinity as CaCO ₃	27	17	23	14	mg/L	
Turbidity	1.5	2.4	1	2	NTU	
Volumes purged	4.48	2.90	3.94	4.03	well volume	
Sampling code						
Synchronous water level	196.1 (09/21/98)	196.6 (03/29/99)	195.4 (09/23/99)	194.9 (03/20/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	36.2		35		40						ug/L	
	Cyanide	<15.2	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<10	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	1.38		< 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	4.99	J	4.23	J IQ	8.7		10.8		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	34.6		63.6		34.7	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1050		962		770		915		< 2400	5	ug/L	EX
	Sodium, total recoverable	2720		3090		2350		2800		< 4600	1	ug/L	EX
	Sulfate	2570		2500		2210		2260		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.07	J	.05	U	.63		.0701	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.33		.22	UIJ	2.1		2.46	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.45	J	.54	UIJ	.06	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MCB 7C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97139.9 E 44870.6	33.31381 Deg N -81.7374 Deg W	160.7 - 155.7 ft msl	337.7 ft msl	4 " PVC	S	UL
SAMPLE DATE		09/02/98	02/09/99	09/24/99	03/02/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	194.68	195.25	196.4	193.37	ft msl	
pH	11.1	11.4	10.9	10.9	pH	
Sp. Conductance	1500	1600	620	1435	uS/cm	
Water temperature	26	18	20.2	18.6	deg. C	
Alkalinity as CaCO3	278	352	114	432	mg/L	
Turbidity	1.2	2.8	.7	2.9	NTU	
Volumes purged		.039	2.30	0	well volume	
Sampling code	NX	X		NX		
Synchronous water level	194.8 (09/21/98)	195.1 (03/29/99)	193.8 (09/23/99)	193.4 (03/20/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	94		46.9		18.4						ug/L	
	Cyanide	<15.2	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	<10	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<3.45	JU I					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<5	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	5.53		6.24		16		8.07		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	62.5		45.6		47		63.4		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	4070		2740		4200		2470		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	180		2650		561		2190		< 2400	5	ug/L	EX
	Sodium, total recoverable	8630		4850		10900		4310		< 4600	1	ug/L	EX
	Sulfate	2760		1890		2280		1770		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.603	UI	1.19	U	2.68	J	.00721	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	7.39		.39	UIJ	9.26	J	3.43		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI			.71		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 9A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102236.7 E 48242.5	33.33058 Deg N -81.7384 Deg W	144.2 - 139.2 ft msl	359.1 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/08/98	02/19/99	08/10/99	02/18/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	209.23	209.41	210.5	208.79	ft msl
pH	5.6	5.1	6.8	5.8	pH
Sp. Conductance	32	27	33	30	uS/cm
Water temperature	21.9	18.2	20.5	18.4	deg. C
Alkalinity as CaCO3	6	7	10	8	mg/L
Turbidity	3.4	1.1	.6	1.1	NTU
Volumes purged	3.08	3.07	2.83	2.60	well volume
Sampling code					
Synchronous water level	210.6 (09/21/98)	212.4 (03/29/99)	210.4 (09/21/99)	208.7 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	5.28	J	5.09	J I	5	J I					ug/L	
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	17						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<50	UJ	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<50	UJ	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	UJ	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	UJ	<50	U	6.36	J K	8.6		< 100	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	UJ	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	1350	J	992		732		1320		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<50	UJ	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	1020	J	747		620		908		> 5	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	118		<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	490		352		231	J	383	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1460		1650		1600		1800		< 4600	1	ug/L	EX
	Sulfate	337	J	<5000	U	<400	U	506		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.62		.31	UI	.61	J	.444	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.16	UI	-1.54	UI	.9	J	.576	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6		.45	UI	.37	UI	.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 9C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102245.6 E 48273	33.33065 Deg N -81.7383 Deg W	241.6 - 221.6 ft msl	359.6 ft msl	4 " PVC	S	M

SAMPLE DATE 02/18/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	Not Available	Not Available	Not Available	224.9	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged				0	well volume
Sampling code					
Synchronous water level	()	()	()	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
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												

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	2520										ug/L	
	Nitrate-nitrite as nitrogen	13400										ug/L	
	Sodium, total recoverable	4590										ug/L	
	Sulfate	<1000	U									ug/L	
Radionuclides													
	Gross alpha	101										pCi/L	
	Nonvolatile beta	44.9										pCi/L	
	Radium, total alpha-emitting	44.1										pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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

WELL MSB 10A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102451.8 E 47954.4	33.33059 Deg N -81.7396 Deg W	125.2 - 120.2 ft msl	357.2 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/09/98	02/19/99	08/19/99	02/24/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	209.5	210.1	211.44	209.15	ft msl
pH	5.2	5.9	5.3	5.2	pH
Sp. Conductance	24	22	19	20	uS/cm
Water temperature	18.9	19	21	18.9	deg. C
Alkalinity as CaCO3	3	2	3	1	mg/L
Turbidity	.3	.3	.6	.2	NTU
Volumes purged	2.19	2.38	2.63	2.32	well volume
Sampling code					
Synchronous water level	210.9 (09/21/98)	211.6 (03/29/99)	210.2 (09/21/99)	209 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	25.1		10.3		5.6	J I					ug/L	
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	55.8	J	<100	U	<2.92	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	8.43	J I	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	.77	J IK	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	24	J	75		10.7	J K	22.6		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	147	J	95.9		86.6	J K	90.7		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<146	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	550		364		275	J	308	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2020		1530		1540		1700		< 4600	1	ug/L	EX
	Sulfate	556		<5000	U	576		472		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.978		.91	UI	1.35		.441	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.97		1.56	UI	1.11	UI	.479	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4	J	1.54	J	.28	UI	.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 10B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102488.2 E 47943.1	33.33065 Deg N -81.7397 Deg W	157.4 - 152.4 ft msl	357.6 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/28/98	02/05/99	08/17/99	02/29/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	211.5	212.63	212.98	211.05	ft msl
pH	5.3	5.1	5	5.2	pH
Sp. Conductance	37	29	37	37	uS/cm
Water temperature	19.8	19.2	19.8	18.6	deg. C
Alkalinity as CaCO ₃		1	1	0	mg/L
Turbidity	2.9	.6	.8	.8	NTU
Volumes purged	2.54	2.46	2.35	2.30	well volume
Sampling code					
Synchronous water level	212.5 (09/21/98)	212.8 (03/29/99)	212.9 (09/21/99)	209.9 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	12.7		12		14						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<9.3	JU I					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	2.75	J I	4.35	J K	15.6	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	4.04	J	6.9		9.03	J K	19.4	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	38.2		<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	160		70		96	J	80.1	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2320		2460		2290		2800		< 4600	1	ug/L	EX
+	Sulfate	7760		8160		8090		7980		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.015	UI	-.17	UI	1	UI	-.0344	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.805	UI	-1.49	UI	1.57	UI	.687	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	.92		.37		0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 11C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102658.6 E 48579.4	33.33206 Deg N -81.7383 Deg W	182.9 - 177.9 ft msl	365.5 ft msl	4 " PVC	S	UL

SAMPLE DATE	09/09/98	02/22/99	08/10/99	03/08/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	218.6	218.75	218.88	217.85	ft msl
pH	4.1	4.4	4.8	4.7	pH
Sp. Conductance	170	120	170	153	uS/cm
Water temperature	18.7	18.5	21.6	19.4	deg. C
Alkalinity as CaCO ₃			0	0	mg/L
Turbidity	.6	.4	.4	.4	NTU
Volumes purged	2.63	3.00	4.22	3.76	well volume
Sampling code					
Synchronous water level	220.4 (09/21/98)	220.6 (03/29/99)	218.8 (09/21/99)	217.7 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	55.5		47.1		56		48.7		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<7.65	JU	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<2500	UJ	<2500	U	<1	U	112	J IK	NDD	200	ug/L	ML
	1,1-Dichloroethane	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	Tetrachloroethylene	<2500	UJ	<2500	U	93.1	J K	<200	JU K	< EQL	200	ug/L	ML
	1,1,1-Trichloroethane	<2500	UJ	<2500	U	<1	U	<200	U	< EQL	200	ug/L	ML
	Trichloroethylene	44700	J	42900		40300		40300	J K	NDD	200	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	88.1		101		122	J	160	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	17300		16700		15500		16900		> 2400	5	ug/L	EX
+	Sodium, total recoverable	8060		7150		5870		5700		> 4600	1	ug/L	EX
	Sulfate	263	J	<5000	U	252	J	165	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	6.44		2.23		9.66		5.1		< 15	1	pCi/L	GP
	Nonvolatile beta	11.39		1.12	UI	9.48		4.23		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	4.44		.23	UI	3.19		2.9		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 11F

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102629.3 E 48577	33.33200 Deg N -81.7383 Deg W	243.1 - 223.1 ft msl	365.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/09/98	02/22/99	08/10/99	03/14/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	230.84	231.6	230.45	228.4	ft msl
pH	4.6	4.4	5.3	5.1	pH
Sp. Conductance	29	18	28	31	uS/cm
Water temperature	19.1	17.6	21.6	18.7	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1.6	.7	.6	4.1	NTU
Volumes purged	8.09	3.31	3.62	7.77	well volume
Sampling code					
Synchronous water level	230.9 (09/21/98)	()	230.4 (09/21/99)	228.3 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.96	J	<10	U	4.4	J I	4.5	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U	<6.72	JU IV	< EQL	1	ug/L	ML
	Nickel, total recoverable	7.28	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<200	U	<200	U	<10	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<500	U	<500	U	.41	J IK	1.4	J IK	NDD	5	ug/L	ML
	1,1-Dichloroethane	<500	U	<500	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<500	U	<500	U	1.94	J K	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<500	U	<1	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<500	U	<1	U	<5	U	< EQL	5	ug/L	ML
	Tetrachloroethylene	4180		1170		1230		1600	J K	NDD	5	ug/L	ML
	1,1,1-Trichloroethane	20.5	J	<500	U	3.81	J K	4.55	J IK	NDD	5	ug/L	ML
	Trichloroethylene	1750		563		523		843	J K	NDD	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	57.4				191	J	160	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	820		1210		755		824		< 2400	5	ug/L	EX
	Sodium, total recoverable	2340				2890		3800		< 4600	1	ug/L	EX
	Sulfate	835	J	<5000	U	886		961		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.51		.26	UI	6.27		1.77		< 15	1	pCi/L	GP
	Nonvolatile beta	2.36		-.62	UI	1.8	U	1.13	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.1		2.36		1.66		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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

WELL MSB 12B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102272.76 E 47142.09	33.32886 Deg N -81.7414 Deg W	162.4 - 157.4 ft msl	350.3 ft msl	4" PVC	S	LLAZ

SAMPLE DATE	09/09/98	02/22/99	08/10/99	02/29/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	216.84	217.63	218.4	216.68	ft msl
pH	4.5	4.1	4.9	5.1	pH
Sp. Conductance	110	50	102	88	uS/cm
Water temperature	20.4	17.8	21.5	18.4	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1.7	.8	.6	2.2	NTU
Volumes purged	2.80	2.61	2.80	2.50	well volume
Sampling code					
Synchronous water level	216.8 (09/21/98)	217.8 (03/26/99)	218.3 (09/21/99)	216.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flit.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	25		23.6		25						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<1000	U	<1250	U	<1.39	JU KV	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<1000	U	<1250	U	<1	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<1000	U	<1250	U	7.53	J K	<50	U	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<1000	U	<1250	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1000	U	<1250	U	3.35	J K	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	24000		18300		13500		18200	J K	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<1000	U	<1250	U	1.47	J K	<50	U	< EQL	50	ug/L	ML
	Trichloroethylene	23800		15600		15400		20000	J K	NDD	50	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flit.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	95.4	J	39.9		<200	U	160	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	13100		12000		9950		9870		> 2400	5	ug/L	EX
+	Sodium, total recoverable	13900	J	10600		9450		12000		> 4600	1	ug/L	EX
	Sulfate	249	J	<5000	U	325	J	306		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	6.1		5.51		8.89		4.39		< 15	1	pCi/L	GP
	Nonvolatile beta	7.61		9.53		10.89		6		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	3		4.86	UIJ	2.61		1.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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

WELL MSB 12TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102287.86 E 47130.37	33.32888 Deg N -81.7414 Deg W	-102.6 - -113. ft msl	350 ft msl	4 " STEEL	S	CBA

SAMPLE DATE	08/28/98	02/08/99	08/17/99	02/03/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	191.15	192.55	191.43	191.55	ft msl
pH	5.8	5.9	5.9	5.7	pH
Sp. Conductance	37	32	35	33	uS/cm
Water temperature	23.1	19.8	19.7	18.9	deg. C
Alkalinity as CaCO3	8	8	12	6	mg/L
Turbidity	.4	.4	.4	.9	NTU
Volumes purged	8.10	8.86	8.55	8.53	well volume
Sampling code					
Synchronous water level	188.2 (09/21/98)	192.5 (03/26/99)	191.4 (09/21/99)	191.8 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	13.7		<10	U	12						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	198		<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<146	U	<20	U	74.4	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	370		35		<500	U	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1300		1240		1280		1400		< 4600	1	ug/L	EX
	Sulfate	880		<5000	U	827		579		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	9.03		.17	UI	2.29		1.16	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	4.86		.54	UI	1.05	UI	1.11	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.2		.94		.62		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 15A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102983.5 E 48827	33.33319 Deg N -81.7383 Deg W	167.8 - 162.8 ft msl	367.7 ft msl	3.8 " PVC	S	UL

<u>SAMPLE DATE</u>	09/14/98	02/22/99	08/17/99	02/29/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.8	218.85	218.68	217.94	ft msl
pH	6.7	6.2	6.8	6.7	pH
Sp. Conductance	50	45	67	51	uS/cm
Water temperature	21.3	20.3	22.4	19.8	deg. C
Alkalinity as CaCO3	9	10	22	8	mg/L
Turbidity	2.1	5.9	3	1.4	NTU
Volumes purged	2.90	3.33	.905	2.47	well volume
Sampling code					
Synchronous water level	220.1 (09/21/98)	219.9 (03/29/99)	218.6 (09/21/99)	217.8 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	16.8		12		11						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	3.7	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<9.5	JU I					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<250	U	<500	U	.47	J IK	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<500	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	1240		1660		1240		2020	J K	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	Trichloroethylene	8310		8740		7990		12100	J K	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<29.6	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	820		779		550		590		< 2400	5	ug/L	EX
	Sodium, total recoverable	1850		2100		2210		2000		< 4600	1	ug/L	EX
	Sulfate	348	J	<5000	U	361	J	307		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.807		.51	UI	1.56		.491	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.08	UI	-1.07	UI	2.48		1.3	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.5		1.2		.36	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

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

WELL MSB 15AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102953.2 E 48818.5	33.33311 Deg N -81.7383 Deg W	147.1 - 142.4 ft msl	369.2 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/13/98	02/22/99	08/17/99	02/29/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	211.5	212.35	229.8	211.61	ft msl
pH	6	5.3	6.2	6.2	pH
Sp. Conductance	26	33	33	44	uS/cm
Water temperature	19.4	18.5	23	18.8	deg. C
Alkalinity as CaCO3	5	9	10	10	mg/L
Turbidity	.7	.4	.7	.5	NTU
Volumes purged	3.16	5.16	2.34	2.39	well volume
Sampling code					
Synchronous water level	213.1 (09/21/98)	213.8 (03/29/99)	229.8 (09/21/99)	211.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	10.9		15.7		13		16.9		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<9.6	JU I	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<4.1	JU I	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	10.5	J	14.1	J I	11	J K	13.6	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	149		298		275	J K	263	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	450		120		<500	U	153	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1800		1580		1530		1700		< 4600	1	ug/L	EX
	Sulfate	386	J	<5000	U	<200	U	381		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.156	UI	2.35	UI	.24	UI	-.0638	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.03		3.81		-.6	UI	.473	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	-.25	UI	.12	U	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 15D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102971.2 E 48827.5	33.33316 Deg N -81.7383 Deg W	241.4 - 221.9 ft msl	368.5 ft msl	4 " PVC	S	M
SAMPLE DATE		02/23/99	08/18/99	02/29/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	230.52	237.6	<i>Not Available</i>	ft msl	
pH		4.8	7	5.6	pH	
Sp. Conductance		20	26	25	uS/cm	
Water temperature		16.2	21.1	19.2	deg. C	
Alkalinity as CaCO3		1	1	2	mg/L	
Turbidity		4.9	5.5	11.8	NTU	
Volumes purged		.550	.198		well volume	
Sampling code		X	NX	NX		
Synchronous water level	231.2 (09/21/98)	()	237.5 (09/21/99)	()	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			3.63	J I	2.9	J I					ug/L	
	Cyanide			<10	U	<10	U					ug/L	
	Lead, total recoverable			<100	U	5.75						ug/L	
	Nickel, total recoverable			<50	U	<13	JU I					ug/L	
	Selenium, total recoverable			<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene			<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethane			<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethylene			<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	trans-1,2-Dichloroethylene			<250	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	Tetrachloroethylene			326		176	J K	95.4	J K	NDD	2	ug/L	ML
	1,1,1-Trichloroethane			<250	U	.75	J IK	<2	U	< EQL	2	ug/L	ML
	Trichloroethylene			2670		1580		595	J K	NDD	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	51.3	J					<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	800						1280		< 2400	5	ug/L	EX
	Sodium, total recoverable	3050						3500		< 4600	1	ug/L	EX
	Sulfate	380	J					345		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	3.52						.88	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	4.28						.858	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6						.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 16A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103693.9 E 48965.1	33.33498 Deg N -81.7393 Deg W	166.8 - 161.8 ft msl	367.5 ft msl	3.8 " PVC	S	UL

SAMPLE DATE	08/13/98	03/01/99	08/18/99	03/14/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	216.8	218.1	217.67	222.82	ft msl
pH	5.6	5.4	6	5.7	pH
Sp. Conductance	30	34	43	34	uS/cm
Water temperature	20.8	19.5	23.5	20.2	deg. C
Alkalinity as CaCO ₃	6	4	7		mg/L
Turbidity	3.6	2	5.4	1.3	NTU
Volumes purged	2.98	2.66	0	0	well volume
Sampling code					
Synchronous water level	221.3 (09/21/98)	221.1 (03/29/99)	217.6 (09/21/99)	217 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	6.81	J	8.74	J I	6.2	J I	10.7	J I	NDD	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	4.7	J	<100	U	14.8		14.8	J IV	NDD	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	23	J I	<60	U	<EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	<EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<500	U	<1250	U	<1	U	23	J I	NDD	50	ug/L	ML
	1,1-Dichloroethane	<500	U	<1250	U	<1	U	<50	U	<EQL	50	ug/L	ML
	1,1-Dichloroethylene	<500	U	<1250	U	3.31	J K	<50	U	<EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<1250	U	<1	U	<50	U	<EQL	50	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<1250	U	<1	U	<50	U	<EQL	50	ug/L	ML
+	Tetrachloroethylene	1370		1400		1600		1480		> 5	50	ug/L	ML
	1,1,1-Trichloroethane	<500	U	<1250	U	.6	J IK	<50	U	<EQL	50	ug/L	ML
+	Trichloroethylene	9890		9130		10600		12700		> 5	50	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<22.9	U	<20	U	<200	U	<200	U	<EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1280	J	1420		1490		1800		< 2400	5	ug/L	EX
	Sodium, total recoverable	2000		2370		2340		2800		< 4600	1	ug/L	EX
	Sulfate	194	J	<5000	U	<200	U	111	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	.589	UI	1.12	UI	1.32		.754	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.85		-.14	UI	.76	UI	1.82	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		.6	J	.93		2.2	U V	<EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 16C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103714.1 E 48970.5	33.33504 Deg N -81.7394 Deg W	244.8 - 224.8 ft msl	367.6 ft msl	3.8 " PVC	B	M

SAMPLE DATE 08/17/98

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.7	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code	NP				
Synchronous water level	229.5 (09/21/98)	230.1 (03/29/99)	229.5 (09/21/99)	228.5 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
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												

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	146	J									ug/L	
	Nitrate-nitrite as nitrogen	960										ug/L	
	Sodium, total recoverable	2540										ug/L	
	Sulfate												
Radionuclides													
	Gross alpha	3.18										pCi/L	
	Nonvolatile beta	4.06										pCi/L	
	Radium, total alpha-emitting	.5	J									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 17B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 101994.6 E 46237.7	33.32677 Deg N -81.7432 Deg W	190.8 - 185.8 ft msl	359.2 ft msl	3.8 " PVC	S	GC

SAMPLE DATE	09/15/98	03/01/99	08/12/99	03/02/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	224.2	226.05	225.7	224.69	ft msl
pH	4.9	5.2	5.4	5.2	pH
Sp. Conductance	97	94	95	89	uS/cm
Water temperature	21.7	18.3	20.8	18.3	deg. C
Alkalinity as CaCO3	12	2	2	0	mg/L
Turbidity	.6	.4	.6	.4	NTU
Volumes purged	3.00	2.91	2.85	2.88	well volume
Sampling code					
Synchronous water level	224.4 (09/21/98)	225.5 (03/26/99)	225.5 (09/21/99)	224.4 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	47.4		40		44						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	5.7						ug/L	
	Nickel, total recoverable	<50	U	<50	U	8.9	J I					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<250	U	<1250	U	.4	J IK	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<1250	U	<1	U	<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<1250	U	12.6	J K	<50	JU L	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<1250	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<1250	U	<1	U	<50	JU L	< EQL	50	ug/L	ML
	Tetrachloroethylene	1070		1680		1720		1980	J L	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<1250	U	2	J K	<50	JU L	< EQL	50	ug/L	ML
	Trichloroethylene	7140		12100		11200		11300	J L	NDD	50	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	71.6		71.6		91.6	J	97	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	10300		9150		8340		8800		> 2400	5	ug/L	EX
+	Sodium, total recoverable	12000		10100		11200		10000		> 4600	1	ug/L	EX
	Sulfate	<1000	U	<5000	U	<400	U	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	9.97		4.83		13.93		6.9	J K	NDD	1	pCi/L	GP
	Nonvolatile beta	6.49		3.9	UI	11.84		5.51		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	5		4.75	J	4.1	J	3.7		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 17BB

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102009.5 E 46220.8	33.32678 Deg N -81.7433 Deg W	137.3 - 132.6 ft msl	359 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/06/98	03/03/99	08/12/99	03/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	211.5	212.37	212.97	211.3	ft msl
pH	5.8	5.5	5.5	5.3	pH
Sp. Conductance	98	100	114	106	uS/cm
Water temperature	18.7	18.2	21.1	18.4	deg. C
Alkalinity as CaCO3	2	4	4	0	mg/L
Turbidity	2.9	3.2	2.3	1	NTU
Volumes purged	4.23	2.21	2.40	2.41	well volume
Sampling code					
Synchronous water level	211.4 (09/21/98)	212.5 (03/26/99)	212.2 (09/21/99)	211 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	30.8		35		35						ug/L	
	Cyanide	<10	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<1.8	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<8.1	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<50	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<50	U	<125	U	.89	J IK	<10	JU L	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<125	U	1.62	J K					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	Tetrachloroethylene	387		626		487		619	J L	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	Trichloroethylene	1470		2620		1950		2430	J L	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	58.3		38.1		73.1	J	86	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	11600		8550		10500		10700		> 2400	5	ug/L	EX
+	Sodium, total recoverable	7300		5670		6780		7600		> 4600	1	ug/L	EX
	Sulfate	357		<5000	U	<200	U	405		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	7.4		6.79	UI	3.27		1.22	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	7.64		6.5		5.8	UJ	3.64		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.5		1.74	J	.82		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 18A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 100416.1 E 46110.4	33.32308 Deg N -81.7405 Deg W	163.9 - 158.9 ft msl	341.9 ft msl	3.8 " PVC	S	UL

SAMPLE DATE	09/15/98	02/24/99	08/18/99	03/02/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	211.63	212.43	212.8	211.39	ft msl
pH	4.4	4.2	5.1	4.6	pH
Sp. Conductance	52	50	53	52	uS/cm
Water temperature	20.1	17.8	23.8	18.2	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	3.8	1.2	2.1	1.2	NTU
Volumes purged	2.81	3.90	3.52	2.79	well volume
Sampling code					
Synchronous water level	211.6 (09/22/98)	212.7 (03/29/99)	212.7 (09/21/99)	211.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	18.7		20.4		17						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	4.12	J I					ug/L	
	Nickel, total recoverable	8.37	J	<12.6	JU	20	J I					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	1.09	J K	1.06		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	11.6		12		10.8	J K	13.3		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	30		30.3		30.4	J K	35.2		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3360		4460		3540		3840		> 2400	5	ug/L	EX
	Sodium, total recoverable	2840		3030		3360		3500		< 4600	1	ug/L	EX
	Sulfate	391	J	<5000	U	491		307		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.95		3.21	UI	.39	UI	.359	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.86		3.7		4.21		2.69		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.4	UI	.73	J	.64	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 18B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100424.1 E 46115.7	33.32310 Deg N -81.7405 Deg W	198.5 - 193.5 ft msl	342.1 ft msl	3.8 " PVC	S	M

<u>SAMPLE DATE</u>	09/16/98	02/24/99	08/18/99	03/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.02	222.02	222.08	220.77	ft msl
pH	7.7	8.2	6.3	5.5	pH
Sp. Conductance	250	200	130	115	uS/cm
Water temperature	23.1	15.8	21.8	18	deg. C
Alkalinity as CaCO ₃	80	71	23	2	mg/L
Turbidity	3.1	6.6	1.4	1.3	NTU
Volumes purged	5.21	3.67	5.32	3.33	well volume
Sampling code					
Synchronous water level	221.2 (09/22/98)	222 (03/29/99)	222 (09/21/99)	220.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	71		64.9		80						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	43.7	J	<100	U	2.08	J I					ug/L	
	Nickel, total recoverable	<50	U	<8.15	JU	<9.2	JU I					ug/L	
	Selenium, total recoverable	<200	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	4.2	J	2.2	J I	2.8	J K	2.85		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	37.6		29.3		31	J K	46.3		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	.47	J I	NDD	1	ug/L	ML
+	Trichloroethylene	13.2		10.3		11.3	J K	15.7		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	423		<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	8800		6940		8450		8290		> 2400	5	ug/L	EX
+	Sodium, total recoverable	11100		8370		9410		8500		> 4600	1	ug/L	EX
	Sulfate	187	J	<5000	U	935		195	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	3.57		4.44	UI	4.98		3.83		< 15	1	pCi/L	GP
	Nonvolatile beta	6.47		8.44		81.71	J	10.5		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.4		1.41	J	1.49		1.7	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 19B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100999.3 E 50934.8	33.33224 Deg N -81.7289 Deg W	147.7 - 142.7 ft msl	300.4 ft msl	3.8 " PVC	S	LL

SAMPLE DATE	08/31/98	09/16/99	02/03/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	215.85	Not Available	163.6	215.27	ft msl
pH	6.5		4.8	4.2	pH
Sp. Conductance	22		19	20	uS/cm
Water temperature	19.8		18.8	18.6	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.8		.4	.4	NTU
Volumes purged	2.78		6.03	2.54	well volume
Sampling code					
Synchronous water level	()	()	215.9 (09/22/99)	215.1 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.53	J			3.72	J I					ug/L	
	Cyanide	<10	U			<10	U					ug/L	
	Lead, total recoverable	<100	U			<10	U					ug/L	
	Nickel, total recoverable	<50	U			<50	U					ug/L	
	Selenium, total recoverable	<10	U			<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ			<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	102		<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	1310		980		501		2760		> 2400	5	ug/L	EX
	Sodium, total recoverable	1570		1490		1600		1550		< 4600	1	ug/L	EX
	Sulfate	245	J	<5000	U	2260	J	285		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.47		.23	UI	3.25		.844	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.18	UI	-.79	UI	4.12	J	.58	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		.003	UI	.28	U	.5	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 19C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100992.1 E 50942.4	33.33224 Deg N -81.7289 Deg W	218.7 - 198.7 ft msl	300.8 ft msl	3.8" PVC	S	M

<u>SAMPLE DATE</u>		
	09/27/99	03/02/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	Not Available	Not Available	234.59	233.5	ft msl
pH			5.3	5.3	pH
Sp. Conductance			90	87	uS/cm
Water temperature			19.7	19.3	deg. C
Alkalinity as CaCO3			1	0	mg/L
Turbidity			1.7	1	NTU
Volumes purged			4.08	2.81	well volume
Sampling code					
Synchronous water level	()	()	234.6 (09/22/99)	233.3 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable					4.99	J I					ug/L	
	Cyanide					<10	JU Q					ug/L	
	Lead, total recoverable					4.15	J I					ug/L	
	Nickel, total recoverable					<50	U					ug/L	
	Selenium, total recoverable					<10	U					ug/L	
Organics													
	Chlorobenzene					<.48	U V	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane					<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene					<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene					<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane					<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene					3.81	J K	3.77		< 5	1	ug/L	ML
	1,1,1-Trichloroethane					<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene					26.4	J K	20.3		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U			<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	8900		9830				4400		> 2400	5	ug/L	EX
+	Sodium, total recoverable	15000		16100				16000		> 4600	1	ug/L	EX
+	Sulfate	5100		4580	J			13400		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	2.12		1.39	UI			.767	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.96		1.53	UI			1.34	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.1		3.54	UI			.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 20A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103545.1 E 46060.5	33.32991 Deg N -81.7467 Deg W	162.6 - 157.6 ft msl	355.3 ft msl	3.8 " PVC	S	UL

SAMPLE DATE	08/05/98	03/01/99	08/19/99	03/27/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	217.25	218.5	218.69	217.07	ft msl
pH	5.5	5.5	5.8	5.7	pH
Sp. Conductance	22	22	22	21	uS/cm
Water temperature	19.6	18.4	21	19.3	deg. C
Alkalinity as CaCO3	1	3	4	2	mg/L
Turbidity	2.6	1.7	4.1	4.1	NTU
Volumes purged	6.59	2.63	2.73	2.96	well volume
Sampling code					
Synchronous water level	218 (09/22/98)	218.4 (03/29/99)	218.6 (09/21/99)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	6.16	J	8.83	J I	6.7	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<6.71	U V					ug/L	
	Nickel, total recoverable	<50	U	<7.96	JU	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	Tetrachloroethylene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	1090		1160		1090	J K	986		> 5	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<22.5	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1800		1690		1030		1080		< 2400	5	ug/L	EX
	Sodium, total recoverable	1400		1560		1100		1700		< 4600	1	ug/L	EX
	Sulfate	124	J	<5000	U	<400	U	186	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	.261	UI	.92	UI	1.02		.166	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.26	UI	-.97	UI	.54	UI	.738	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	1.27	UI	.6		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 20C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103556.3 E 46088.8	33.32998 Deg N -81.7466 Deg W	232.7 - 212.7 ft msl	354.7 ft msl	3.8 " PVC	S	M

<u>SAMPLE DATE</u>	08/06/98	08/19/99	03/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	225.1	Not Available	226.8	225.56	ft msl
pH	10.1		10	9.6	pH
Sp. Conductance	120		155	159	uS/cm
Water temperature	18.6		21.6	19.4	deg. C
Alkalinity as CaCO ₃			48	47	mg/L
Turbidity	12.8		14	25.3	NTU
Volumes purged			.250	.548	well volume
Sampling code	NX		NX	NX	
Synchronous water level	225.4 (09/22/98)	226.6 (03/29/99)	226.8 (09/21/99)	225.6 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.57	J	5.51	J I	4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	78		<100	U	<8.73	U V					ug/L	
	Nickel, total recoverable	<50	U	<9.99	JU	<17	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	3.51	J I	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	566		597		502		390		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2140		2390		1720		2190		< 2400	5	ug/L	EX
+	Sodium, total recoverable	6670		4470		3240		7900		> 4600	1	ug/L	EX
+	Sulfate	6330		7760		12200		9970		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.548	UI	7.66	UI	5.92		1.97	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.34		8.73		9.83	UJ	1.78	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	-.2	UI	1.05	J	2.41		-.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 21B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104000.1 E 47271.8	33.33289 Deg N -81.7444 Deg W	147.2 - 142.5 ft msl	355 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/05/98	02/23/99	08/19/99	03/03/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	218.5	219.45	219.89	218.54	ft msl
pH	5.9	5.1	6	5.9	pH
Sp. Conductance	24	25	28	23	uS/cm
Water temperature	19.5	17.9	19.7	19.1	deg. C
Alkalinity as CaCO ₃	3	2	5	5	mg/L
Turbidity	1.6	.3	.6	.3	NTU
Volumes purged	2.78	2.52	2.63	2.85	well volume
Sampling code					
Synchronous water level	219.1 (09/21/98)	219.7 (03/29/99)	216.9 (09/21/99)	218.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	11.7		17.9		18						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.45	U V					ug/L	
	Nickel, total recoverable	10.7	J	<50	U	<8.2	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<50	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<50	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<50	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	220		357		324	J K	293		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable			<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen			812		613		688		< 2400	5	ug/L	EX
	Sodium, total recoverable			1720		1760		2000		< 4600	1	ug/L	EX
	Sulfate			<5000	U	<400	U	293		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha			.71	UI	1.7		.442	U	< EQL	1	pCi/L	GP
	Nonvolatile beta			-1.19	UI	3.17		.917	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting			1.56	UI	.51		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 21C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103973 E 47234.6	33.33277 Deg N -81.7444 Deg W	233.2 - 213.2 ft msl	354.8 ft msl	3.8 " PVC	S	M

<u>SAMPLE DATE</u>	08/31/98	02/08/99	08/13/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	227.83	228.77	228.95	228.2	ft msl
pH	5.4	4.8	5.4	5.3	pH
Sp. Conductance	25	22	22	21	uS/cm
Water temperature	19.4	18.8	19.9	17.6	deg. C
Alkalinity as CaCO ₃		1	4	1	mg/L
Turbidity	2.8	1.5	4	2.6	NTU
Volumes purged	9.92	3.98	5.28	9.20	well volume
Sampling code					
Synchronous water level	227.9 (09/21/98)	228.9 (03/29/99)	228.8 (09/21/99)	228.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.9	J	<10	U	7.9	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	8.99						ug/L	
	Nickel, total recoverable	9.5	J	<50	U	<11	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	61.5		<50	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1320		1280		824		996		< 2400	5	ug/L	EX
	Sodium, total recoverable	1540		1580		1940		2200		< 4600	1	ug/L	EX
	Sulfate	224	J	<5000	U	2170	J	472		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.67		2.61		8.12		2.98	J K	NDD	1	pCi/L	GP
	Nonvolatile beta	2.02		1.94		7.26	J	2.35		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.6		2.39		3.13		1.2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 23B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104336.6 E 49286.4	33.33693 Deg N -81.7397 Deg W	176.1 - 171.1 ft msl	371.6 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/06/98	03/01/99	08/24/99	03/08/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	220.05	221.75	220.99	220.5	ft msl
pH	5	4.9	4.8	4.7	pH
Sp. Conductance	280	300	329	273	uS/cm
Water temperature	21.7	19.6	24.4	21.4	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1.5	.4	.3	.6	NTU
Volumes purged	2.87	2.80	3.39	3.33	well volume
Sampling code					
Synchronous water level	223.9 (09/22/98)	222.8 (03/29/99)	221 (09/21/99)	220.4 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	143		129		120		116		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.93	U V	<6.58	JU	< EQL	1	ug/L	ML
	Nickel, total recoverable	12.2	J	<11.6	JU	<8.9	JU I	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<1000	U	<1250	U	1.7	J K	150	J IK	NDD	200	ug/L	ML
	1,1-Dichloroethane	<1000	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<1000	U	<1250	U	89.6	J K	<200	U	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<1000	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<1000	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	Tetrachloroethylene	38000		34500		30800		33100	J K	NDD	200	ug/L	ML
	1,1,1-Trichloroethane	<1000	U	<1250	U	13.9	J K	<200	U	< EQL	200	ug/L	ML
	Trichloroethylene	30100		29800		23600		26800	J K	NDD	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	692	J	711		761		730		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	48000		47200		39300		38400		> 2400	10	ug/L	EX
+	Sodium, total recoverable	14900	J	13100		11600		10000		> 4600	1	ug/L	EX
	Sulfate	206	J	<5000	U	<200	U	347	J I	NDD	2	ug/L	EX
Radionuclides													
+	Gross alpha	23.7		31.2		54.07		32.7		> 15	1	pCi/L	GP
	Nonvolatile beta	19.4		16.2		40.87	J	17.1		< 50	1	pCi/L	GP
+	Radium, total alpha-emitting	14.4		19.4		12.94		11.6		> 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 23TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104298.8 E 49225.8	33.33675 Deg N -81.7398 Deg W	65.4 - 60.4 ft msl	372.9 ft msl	4 " STEEL	S	CBA

SAMPLE DATE	08/19/98	02/23/99	08/19/99	02/10/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	198.5	199.75	198.99	199.93	ft msl
pH	5.3	5.3	5.1	5.2	pH
Sp. Conductance	22	32	31	28	uS/cm
Water temperature	20.8	18.8	20.6	19.5	deg. C
Alkalinity as CaCO3	1	3	4	4	mg/L
Turbidity	1.5	.5	.7	1.5	NTU
Volumes purged	2.77	2.28	2.44	2.90	well volume
Sampling code					
Synchronous water level	192.8 (09/22/98)	199.8 (03/29/99)	198.9 (09/21/99)	199.9 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.57	J	8.72	J I	9	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.54	U V					ug/L	
	Nickel, total recoverable	<18.9	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<42.4	U	16.5	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	270		5	J	<100	U	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	2160		1920		2250		2300		< 4600	1	ug/L	EX
+	Sulfate	4590		4400	J	4400		4300		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.07		-.19	UI	2.65	J	.564	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.55		-.75	UI			1.94	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		.79	UI	.53		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 24

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104614.4 E 49842.9	33.33845 Deg N -81.7388 Deg W	243.9 - 223.9 ft msl	380.2 ft msl	4 " PVC	S	M

SAMPLE DATE	09/15/98	09/02/99	03/10/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	235.05	Not Available	234.04	233.97	ft msl
pH	6.3		6.4	6.7	pH
Sp. Conductance	93		99	88	uS/cm
Water temperature	21.9		25.9	23.8	deg. C
Alkalinity as CaCO3	28		37	37	mg/L
Turbidity	1.2		2.1	3.4	NTU
Volumes purged			.155	.156	well volume
Sampling code	NX		NX	NX	
Synchronous water level	231.4 (09/22/98)	235.1 (03/29/99)	234.3 (09/21/99)	233.9 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	8.71	J	12.2		7.6	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<250	U	<250	U	<1	U	<10	JU	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<250	U	<250	U	<1	U	<10	JU	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<250	U	<250	U	2.63	J K	<10	JU	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<250	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<250	U	<1	U	<10	JU	< EQL	10	ug/L	ML
	Tetrachloroethylene	1650	J	1780		957		618	J	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<250	U	<1	U	<10	JU	< EQL	10	ug/L	ML
	Trichloroethylene	4740	J	5020		2880		2240	J	NDD	10	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	129	J	135		207		160	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2360		2590		2000		2150		< 2400	5	ug/L	EX
	Sodium, total recoverable	3870	J	3860		4320		4000		< 4600	1	ug/L	EX
	Sulfate	3290		3420	J	2320		1960		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.56		.69	UI	2.29		1.45	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.69		-.58	UI	16.13		.971	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	2.06	UI	.38	UI	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 25A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103504.8 E 49657.9	33.33570 Deg N -81.7371 Deg W	169.7 - 159.7 ft msl	366.4 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/05/98	03/01/99	08/23/99	03/03/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	213.4	215.05	214.23	213.86	ft msl
pH	5.2	5	5.4	5.7	pH
Sp. Conductance	20	29	28	28	uS/cm
Water temperature	20.9	20.1	22.7	20.6	deg. C
Alkalinity as CaCO3			0	2	mg/L
Turbidity	.8	.1	.2	.3	NTU
Volumes purged	4.19	2.85	2.36	2.71	well volume
Sampling code					
Synchronous water level	213.6 (09/23/98)	216.8 (03/29/99)	214.3 (09/21/99)	213.8 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.18	J	5.42	J I	7.1	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<50	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<1	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Tetrachloroethylene	169		163		254	J K	276		> 5	10	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Trichloroethylene	1140		986		1290		1290		> 5	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1760		346		1430		1590		< 2400	5	ug/L	EX
	Sodium, total recoverable	2090	J	2460		2390		2800		< 4600	1	ug/L	EX
	Sulfate	191	J	<5000	U	<400	U	623		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.432	UI	.56	UI	.79	UI	.9	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.944	UI	.24	UI	.26	UI	1.59	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		2.7	UI	.34		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 26

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104612.8 E 48941.7	33.33698 Deg N -81.7412 Deg W	240.7 - 220.7 ft msl	361.7 ft msl	4 " PVC	S	M

SAMPLE DATE	08/25/98	03/10/99	08/23/99	03/11/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	237.7	Not Available	237.86	229.54	ft msl
pH	5.4	4.7	5.5	6	pH
Sp. Conductance	14	21	22	35	uS/cm
Water temperature	21.1	13	23	21.2	deg. C
Alkalinity as CaCO3		1	0	21	mg/L
Turbidity	2.7	1	1.4	65.2	NTU
Volumes purged	7.49		3.35	1.43	well volume
Sampling code		X		NX	
Synchronous water level	237.9 (09/21/98)	()	237.8 (09/21/99)	229.4 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	2.95	J	2.42	J I	3.4	J I					ug/L	
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	18.7	J	<9.89	JU	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<10	UJ	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<10	UJ	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<10	UJ	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<10	UJ	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<10	UJ	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	46	J	45.3		69.9	J K	45.4	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<10	UJ	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	238	J	226		300	J K	186	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<40.3	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	580		336		235	J	262	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2180		2610		2440		2800		< 4600	1	ug/L	EX
	Sulfate	813	J	<5000	U	1660		923		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.439	UI	.58	UI	4.54		.558	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.38	UI	.15	UI	13.14	J	.861	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2		1.98	UI	.23	UI	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 26B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104646.7 E 48944.6	33.33706 Deg N -81.7412 Deg W	136.9 - 132.1 ft msl	362.8 ft msl	4" PVC	S	LL

SAMPLE DATE	08/25/98	03/01/99	08/23/99	03/03/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	217	218	217.4	216.94	ft msl
pH	5.6	5.4	5.7	5.8	pH
Sp. Conductance	20	24	24	25	uS/cm
Water temperature	20.1	19.1	22	19.1	deg. C
Alkalinity as CaCO3	1	4	2	5	mg/L
Turbidity	.7	.2	.3	.4	NTU
Volumes purged	3.76	2.39	3.29	2.68	well volume
Sampling code					
Synchronous water level	217.7 (09/21/98)	218.3 (03/29/99)	217.4 (09/21/99)	216.8 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	7.83	J	11.3		7.8	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	8.44	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<25	UJ	<25	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<25	UJ	<25	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<25	UJ	<25	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<25	UJ	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	UJ	<25	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	Tetrachloroethylene	18	J	112		24.1	J K	55.4	J L	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<25	UJ	<25	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	Trichloroethylene	331	J	749		1480		2180	J L	NDD	10	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	550		668		598		631		< 2400	5	ug/L	EX
	Sodium, total recoverable	1860		2010		1870		2200		< 4600	1	ug/L	EX
	Sulfate	327	J	<5000	U	309		426		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	-.322	UI	1.11	UI	.34	UI	.462	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.909	UI	.63	UI	.45	UIJ	.663	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.1	UI	1.81	UIJ	.23	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 27

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104972.8 E 49487.7	33.33866 Deg N -81.7404 Deg W	244 - 234 ft msl	375.5 ft msl	4 " PVC	S	M

SAMPLE DATE 08/20/98 02/08/99 08/13/99 02/02/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	236.7	237.55	235.85	Not Available	ft msl
pH	4.8	4.7	4.6	4.6	pH
Sp. Conductance	58	62	57	60	uS/cm
Water temperature	20.4	20	21.7	19.7	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	3.7	2.4	1.1	2	NTU
Volumes purged	20.1	11.8	20.3		well volume
Sampling code					
Synchronous water level	237.3 (09/22/98)	236.5 (03/29/99)	235.8 (09/21/99)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	20.4		<10	U	16		16.6		< 2000	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.2	U V	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	14.9	J	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1.05	U V	.57	J IL	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1.21	U V	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	153		240		142	J	120	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4080		4890		3760		3270		> 2400	5	ug/L	EX
+	Sodium, total recoverable	4620		4810		5920		4900		> 4600	1	ug/L	EX
	Sulfate	<1000	U	<5000	U	<400	U	291		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.88		.31	UI	4.21		2.06	J K	NDD	1	pCi/L	GP
	Nonvolatile beta	1.91		.39	UI	3.4		1.19	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		2.79	UIJ	.78		.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 27B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104940.3 E 49486.4	33.33859 Deg N -81.7404 Deg W	169.9 - 164.4 ft msl	376.8 ft msl	4 " PVC	S	UL
SAMPLE DATE	08/05/98	03/01/99	08/24/99	03/11/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	222.75	224.59	224.91	224.81	ft msl	
pH	5.2	5.2	5.5	5.3	pH	
Sp. Conductance	14	28	27	26	uS/cm	
Water temperature	20.7	18.6	21.3	19.2	deg. C	
Alkalinity as CaCO ₃			0	1	mg/L	
Turbidity	.8	.2	.2	.3	NTU	
Volumes purged	2.57	2.52	3.54	3.29	well volume	
Sampling code						
Synchronous water level	226.3 (09/22/98)	225.9 (03/29/99)	224.9 (09/21/99)	224.7 (03/21/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	3.67	J I	3	J I	<15	U	< EQL	1	ug/L	ML
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	7.19	J	<100	U	<1.97	U V	<20	U	< EQL	1	ug/L	ML
	Nickel, total recoverable	<50	U	<50	U	<50	U	<60	U	< EQL	1	ug/L	ML
	Selenium, total recoverable	<10	U	<200	U	<5	U	<40	U	< EQL	1	ug/L	ML
Organics													
	Chlorobenzene	<50	U	<50	U	<1	U	4.4	J I	NDD	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	44	J	18	J I	33	J K	45.5		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	574		200		347	J K	644		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1490		1820		1330		1490		< 2400	5	ug/L	EX
	Sodium, total recoverable	2870	J	3220		2990		3500		< 4600	1	ug/L	EX
	Sulfate	250	J	<5000	U	<400	U	586		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.439	UI	.25	UI	.62	UI	.172	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.42	UI	-2.11	UI	-.26	UI	.136	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.2	UIJ	2.13	UIJ	.15	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 27TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104951.4 E 49486.5	33.33861 Deg N -81.7404 Deg W	55.9 - 50.6 ft msl	376.6 ft msl	4" CS	S	CBA

SAMPLE DATE	08/20/98	03/22/99	08/13/99	02/02/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	198	199.51	199.2	199.68	ft msl
pH	5.2	5.1	4.7	4.9	pH
Sp. Conductance	14	24	24	24	uS/cm
Water temperature	19.7	18.8	19.9	18.7	deg. C
Alkalinity as CaCO ₃			0	0	mg/L
Turbidity	1.1	.5	.4	.6	NTU
Volumes purged	2.71	2.27	2.30	2.26	well volume
Sampling code					
Synchronous water level	198.1 (09/22/98)	199.5 (03/29/99)	199.1 (09/21/99)	199.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	5.24	J	5.58	J I	6.4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<3.41	U V					ug/L	
	Nickel, total recoverable	12.6	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	19.8	J	31.3		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	360		<19	U	<200	U	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1530		1530		<1660	U	1600		< 4600	1	ug/L	EX
+	Sulfate	3380		3720	J	3170		3520		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.919		.32	UI	.79		.826	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	.724	UI	-.61	UI	.57	UI	.99	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.5		2.24	UIJ	.37	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 28**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104941.8 E 48517.3	33.33701 Deg N -81.7429 Deg W	230.6 - 210.6 ft msl	354.8 ft msl	4 " PVC	S	M

SAMPLE DATE	08/20/98	02/09/99	08/19/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.7	229.89	229.57	229	ft msl
pH	6.6	6.6	7.1	6.9	pH
Sp. Conductance	58	72	89	77	uS/cm
Water temperature	25	19.5	19.5	18.5	deg. C
Alkalinity as CaCO3	19	26	35	25	mg/L
Turbidity	1.8	1.8	.7	1.4	NTU
Volumes purged	6.13	3.99	4.79	3.69	well volume
Sampling code					
Synchronous water level	229.5 (09/22/98)	230.1 (03/29/99)	229.6 (09/21/99)	228.4 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.54	J	5.49	J I	5.3	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.4	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<37.7	U	31.6		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	560		190		204		198	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1570		1510		<1630	U	1700		< 4600	1	ug/L	EX
	Sulfate	1120		1150		838		2340		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.579	UI	-.3	U	1.43		.732	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.712	UI	-.49	UIJ	.63	UI	.393	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.1	UI	-.62	UI	.03	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 28A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104947.7 E 48521.9	33.33703 Deg N -81.7429 Deg W	157.8 - 152.8 ft msl	355 ft msl	4 " PVC	S	UL

SAMPLE DATE	09/15/98	03/01/99	09/28/99	03/11/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	222.05	223.2	222.56	222.22	ft msl
pH	4.7	5	5	5.2	pH
Sp. Conductance	23	20	19	20	uS/cm
Water temperature	20.8	18.2	19.2	19	deg. C
Alkalinity as CaCO3			0	1	mg/L
Turbidity	.5	.3	.9	.3	NTU
Volumes purged	2.38	2.52	2.52	2.62	well volume
Sampling code					
Synchronous water level	223.7 (09/22/98)	223.2 (03/29/99)	222.6 (09/21/99)	222.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	2.11	J	4.37	J I	4.36	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	JU Q					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<25	U	<25	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	.64	J I					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	Tetrachloroethylene	<25	U	<25	U	.92	J I	<5	JU	< EQL	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	Trichloroethylene	252		613		1210		2060	J	NDD	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	16.1	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	620		587		437	J	467	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1830		1980		2370		2240		< 4600	1	ug/L	EX
	Sulfate	307	J	<5000	U	443		313	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.17		1.45		1.12		.92	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.972	UI	-.01	UI	1.82		.406	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	2.78	UIJ	.38	UI	.5	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 29A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107326.8	33.34672 Deg N	122.9 - 117.3 ft msl	365.2 ft msl	4 " PVC	S	MCBC
E 51236.4	-81.7404 Deg W					

SAMPLE DATE	08/24/98	02/05/99	08/25/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	217.75	218.8	218.4	218.12	ft msl
pH	6.1	5.9	5.8	5.5	pH
Sp. Conductance	40	43	37	36	uS/cm
Water temperature	21.1	19.1	20	19.1	deg. C
Alkalinity as CaCO3	1	7	4	3	mg/L
Turbidity	.9	.4	.5	.5	NTU
Volumes purged	2.61	2.33	2.43	2.19	well volume
Sampling code					
Synchronous water level	217.2 (09/24/98)	219 (03/26/99)	218.4 (09/22/99)	218 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	21.6		19.2		21						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	9.49	J	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	11.7	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	920		833		830		694		< 2400	5	ug/L	EX
	Sodium, total recoverable	1640		1760		1980		1900		< 4600	1	ug/L	EX
	+ Sulfate	5680		5230		4800		5080		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.65		.14	U	2.98	J	1.69	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.81		-.21	U	2.65		2.09	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		2.58		.94		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 29TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107330.4 E 51245.7	33.34675 Deg N -81.7404 Deg W	63.9 - 58.6 ft msl	365 ft msl	4 " CS	S	CBA

<u>SAMPLE DATE</u>	08/24/98	02/05/99	08/25/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	210.2	211.86	211.04	211.03	ft msl
pH	4.9	5	4.8	4.6	pH
Sp. Conductance	16	22	19	20	uS/cm
Water temperature	21.2	18.2	19.3	18.5	deg. C
Alkalinity as CaCO ₃	1	0	0	0	mg/L
Turbidity	1.6	.7	.7	.7	NTU
Volumes purged	2.74	2.41	2.55	2.27	well volume
Sampling code					
Synchronous water level	175.6 (09/24/98)	211.4 (03/26/99)	211 (09/22/99)	210.9 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.67	J	3.2		3.4	J I					ug/L	
	Cyanide	<10	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	4.9	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	4.02	J	<66	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<.61	U V	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	3.59	J	4.15	J I	7.2	J K	9.06	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1050		742		618		680		< 2400	5	ug/L	EX
	Sodium, total recoverable	1480		1660		1930		1500		< 4600	1	ug/L	EX
	Sulfate	789	J	892	J	931		785		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.396	UI	-.26	U	.01	UIJ	.428	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.892	UI	-3	U	-.36	UI	.273	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		1.59		.44		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 30AA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 105715.7 E 47970.5	33.33783 Deg N -81.7459 Deg W	96.4 - 90.8 ft msl	353 ft msl	4" PVC	S	MCBC

SAMPLE DATE	08/31/98	02/08/99	08/13/99	02/02/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	222.7	223.6	223.3	222.67	ft msl
pH	10.5	11	11.2	11.2	pH
Sp. Conductance	650	520	1017	796	uS/cm
Water temperature	25.4	19.1	22.9	17.5	deg. C
Alkalinity as CaCO3	116	128	221	181	mg/L
Turbidity	5.3	12.2	4	3.4	NTU
Volumes purged		.011	0	0	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	222.9 (09/25/98)	223.6 (03/29/99)	223.3 (09/21/99)	222.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	128		<10	U	180						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	9.58						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<.61	U V	.75	J IK	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	75.8		<200	U	84	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	430		<50	U	<500	U	<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	1870		4240		4440		5300		> 4600	1	ug/L	EX
+	Sulfate	13300		13300		12600	J	12700		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.278	UI	1.22	U	4.27		5.51	J K	NDD	1	pCi/L	GP
	Nonvolatile beta	2.26		3.15	UIJ	7.38	J	4.42		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.5		.9		1		1.6		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 30B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105719.9 E 47981.8	33.33786 Deg N -81.7459 Deg W	128.7 - 123.1 ft msl	353.5 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/19/98	02/08/99	08/13/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	224.05	225.05	224.55	223.61	ft msl
pH	4.6	4.4	4.4	4.6	pH
Sp. Conductance	26	34	32	32	uS/cm
Water temperature	19.4	18.7	19.6	18.3	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1.4	.3	.5	.5	NTU
Volumes purged	4.85	2.99	2.56	2.98	well volume
Sampling code					
Synchronous water level	224.1 (09/25/98)	224.9 (03/29/99)	224.6 (09/21/99)	223.4 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.25	J	<10	U	8.2	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.95	U V					ug/L	
	Nickel, total recoverable	<11.5	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	42.5		74.5		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	530		86		<100	U	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1490		1530		1770		1600		< 4600	1	ug/L	EX
+	Sulfate	4790		4910	J	5280		5710		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.805		.26	UI	.38	UIJ	.198	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.55		-.09	UI			.609	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.9		.86	UI	.46		1.1	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 30CC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105724.2 E 47993.3	33.33788 Deg N -81.7458 Deg W	164 - 158.4 ft msl	354 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/19/98	02/08/99	09/02/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	223.85	224.88	223.6	223.55	ft msl
pH	6.1	5.6	5	5.3	pH
Sp. Conductance	38	26	26	27	uS/cm
Water temperature	18.9	18.9	19.4	18.2	deg. C
Alkalinity as CaCO ₃	7		2	3	mg/L
Turbidity	3.1	.7	.5	.9	NTU
Volumes purged	3.67	2.99	3.38	2.75	well volume
Sampling code					
Synchronous water level	223.4 (09/25/98)	224.8 (03/29/99)	224.4 (09/21/99)	223.4 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	27.6		<10	U	15						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<1.47	U V					ug/L	
	Nickel, total recoverable	<10.5	U	<50	U	<11	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1400		1290		1050		1030		< 2400	5	ug/L	EX
	Sodium, total recoverable	1670		1830		1910		1900		< 4600	1	ug/L	EX
	Sulfate	941	J	<5000	U	<200	U	949		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.672	UI	-.03	UIJ	.93	UIJ	.763	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.455	UI	-2.41	UIJ			.186	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	.6	UI	.27	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 31B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101981.3 E 50078.7	33.33302 Deg N -81.7331 Deg W	157.3 - 152.3 ft msl	348.3 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/16/98	03/02/99	08/23/99	03/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	212.12	212.1	211.62	212.49	ft msl
pH	4.9	5.1	5.2	3.9	pH
Sp. Conductance	28	32	31	30	uS/cm
Water temperature	21.7	19	21.5	19.4	deg. C
Alkalinity as CaCO3	1		1	0	mg/L
Turbidity	1.3	.5	.4	.4	NTU
Volumes purged	2.56	2.66	2.84	2.95	well volume
Sampling code					
Synchronous water level	219.4 (09/21/98)	212 (03/26/99)	218.8 (09/22/99)	212.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.6	J	7.3	J I	8.2	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	11						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<87.8	JU	<10	U					ug/L	
Organics													
	Chlorobenzene	<250	U	<250	U	<1	U	.74	J I	NDD	2	ug/L	ML
	1,1-Dichloroethane	<250	U	<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethylene	<250	U	<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
+	Tetrachloroethylene	419		367		344	J K	340		> 5	2	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<250	U	<1	U	<2	U	< EQL	2	ug/L	ML
+	Trichloroethylene	447		537		458		625		> 5	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1120		273		1540		2160		< 2400	5	ug/L	EX
	Sodium, total recoverable	2200		1970		2260		2800		< 4600	1	ug/L	EX
	Sulfate	418	J	<5000	U	307	J	184	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.69		.94	UI	3.64	UI	1.22	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.28		.1	UI	42.55	J	3.09		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.6		3.19	UI	.67		1.1	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 31C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101979.6 E 50089.9	33.33303 Deg N -81.7330 Deg W	236.1 - 216.1 ft msl	348.1 ft msl	4 " PVC	S	M
SAMPLE DATE		09/14/98	03/02/99	08/23/99	03/16/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	230.3	233.25	232.53	231.17	ft msl	
pH	5.7	5.8	6	5.1	pH	
Sp. Conductance	100	98	105	93	uS/cm	
Water temperature	23.5	19	22.5	18.9	deg. C	
Alkalinity as CaCO ₃	1	15	5	7	mg/L	
Turbidity	.9	1	.9	3.5	NTU	
Volumes purged	17.6	2.61	3.48	5.54	well volume	
Sampling code						
Synchronous water level	233.7 (09/21/98)	233.1 (03/26/99)	232 (09/22/99)	231.1 (03/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.3		16.1								ug/L	
	Cyanide	<10	U	<15.2	U							ug/L	
	Lead, total recoverable	<100	U	<100	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<500	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethane	<500	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	1,1-Dichloroethylene	<500	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
	PCB 1016	<2	U	<2	U			<1	U	< EQL	1	ug/L	ML
	PCB 1221	<2	U	<2.04	U			<1	U	< EQL	1	ug/L	ML
	PCB 1232	<1	U	<1.02	U			<1	U	< EQL	1	ug/L	ML
	PCB 1242	<1	U	<1.02	U			<1	U	< EQL	1	ug/L	ML
	PCB 1248	<1	U	<1.02	U			<1	U	< EQL	1	ug/L	ML
	PCB 1254	<1	U	<1.02	U			<1	U	< EQL	1	ug/L	ML
	PCB 1260	<1	U	<1.02	U			<1	U	< EQL	1	ug/L	ML
	1,1,2,2-Tetrachloroethane	<500	U	<1250	U	<1	U	<200	U	< EQL	200	ug/L	ML
+	Tetrachloroethylene	11000		22600		34600		22500		> 5	200	ug/L	ML
	1,1,1-Trichloroethane	<500	U	<1250	U	.76	J IK	<200	U	< EQL	200	ug/L	ML
+	Trichloroethylene	2330		3670		2590		1210		> 5	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	22.5		9.7	J	<200	U					ug/L	
	Nitrate-nitrite as nitrogen	5680		8	J	5500						ug/L	
	Sodium, total recoverable	10600		9120		12600						ug/L	
	Sulfate	8310		7260		9270						ug/L	
Radionuclides													
	Gross alpha	6.62		4.09		7.36		3.79		< 15	1	pCi/L	GP
	Nonvolatile beta	5.43		4.27		9.5		3.54		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	3.5		6.46		3.11	J	2.1		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 31CC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101983.1 E 50067.9	33.33300 Deg N -81.7331 Deg W	181.4 - 176.7 ft msl	348.6 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/25/98	03/02/99	08/23/99	03/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	211.65	212.2	211.6	212.55	ft msl
pH	6	5.7	6.2	4.9	pH
Sp. Conductance	32	44	45	37	uS/cm
Water temperature	20.5	19.1	22.8	19.6	deg. C
Alkalinity as CaCO3	3	10	9	6	mg/L
Turbidity	.9	.2	.7	1.8	NTU
Volumes purged	4.18	2.43	2.42	2.79	well volume
Sampling code					
Synchronous water level	219.4 (09/21/98)	212.2 (03/26/99)	218.8 (09/22/99)	212.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	16.7		18.6		20						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	14.6	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<10	UJ	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	1,1-Dichloroethane	<10	UJ	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	1,1-Dichloroethylene	<10	UJ	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	trans-1,2-Dichloroethylene	<10	UJ	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<10	UJ	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
+	Tetrachloroethylene	141	J	5310		3190		3730		> 5	20	ug/L	ML
	1,1,1-Trichloroethane	<10	UJ	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
+	Trichloroethylene	199	J	7010		3880		5570		> 5	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	33.3		<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1860		260		2450		1990		< 2400	5	ug/L	EX
	Sodium, total recoverable	2180		2400		1870		2100		< 4600	1	ug/L	EX
	Sulfate	1150		<5000	U	1080		1090		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.491	UI	1.01	UI	.9		.727	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.845	UI	1.49	UI	.74	UIJ	.753	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	2.32	UI	-.09	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 32

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99655.6 E 52733.9	33.33221 Deg N -81.7216 Deg W	218.1 - 198.1 ft msl	255.1 ft msl	4 " PVC	S	M

SAMPLE DATE	08/20/98	02/05/99	08/13/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	223.4	223.95	222.44	223.11	ft msl
pH	5.1	5.2	5.1	5	pH
Sp. Conductance	18	25	24	22	uS/cm
Water temperature	25	18.5	19.7	18.2	deg. C
Alkalinity as CaCO3	1		1	3	mg/L
Turbidity	1.1	.8	1	3.1	NTU
Volumes purged	22.9	2.20	4.23	3.38	well volume
Sampling code					
Synchronous water level	223.5 (09/25/98)	223.5 (03/26/99)	222.4 (09/22/99)	223 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics *													
	Barium, total recoverable	<10	U	<10	U	<10	U					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<1.48	U V					ug/L	
	Nickel, total recoverable	9.65	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	12.6	J	31		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1170		903		776		856		< 2400	5	ug/L	EX
	Sodium, total recoverable	3280		2760		2760		3700		< 4600	1	ug/L	EX
	Sulfate	982	J	<5000	U	696		1180		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.11	UI	0	UIJ	.9		.32	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.82	UI	-1.15	UI	.71	UI	1.15	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	2.44	J	.06	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 32B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99676 E 52742.5	33.33227 Deg N -81.7216 Deg W	132.5 - 127.5 ft msl	255.4 ft msl	2 " PVC	V	LL

<u>SAMPLE DATE</u>	08/28/98	02/05/99	08/13/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	211.5	212.05	210.8	210.79	ft msl
pH	6	5.1	5	5.1	pH
Sp. Conductance	20	21	20	20	uS/cm
Water temperature	19.2	18.4	20.5	18.2	deg. C
Alkalinity as CaCO3			0	3	mg/L
Turbidity	.2	.2	.4	.3	NTU
Volumes purged	2.70	2.32	2.58	3.17	well volume
Sampling code					
Synchronous water level	211.2 (09/25/98)	211.9 (03/26/99)	210.7 (09/22/99)	210.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.09	J	3.74	J I	3.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<1.55	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<26.1	U	23.6		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1330		1130		<500	U	896		< 2400	5	ug/L	EX
	Sodium, total recoverable	1350		1450		1360		1600		< 4600	1	ug/L	EX
	Sulfate	283	J	<5000	U	424		308		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.435	UI	.04	UI	.78	UI	-.049	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.34	UI	-.05	UI	1.48	UI	1.48	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2		1.54	UIJ	.31	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 32C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99684.9 E 52746.9	33.33230 Deg N -81.7216 Deg W	188.6 - 183.7 ft msl	255.7 ft msl	2 " PVC	V	UL

SAMPLE DATE 08/28/98 02/05/99 08/13/99 02/02/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	223.28	216.8	215.59	215.7	ft msl
pH	7	5.5	5.4	5.5	pH
Sp. Conductance	26	25	24	22	uS/cm
Water temperature	19.2	18.4	19.6	17.5	deg. C
Alkalinity as CaCO3	3	3	3	3	mg/L
Turbidity	.3	.1	.3	.4	NTU
Volumes purged	4.51	3.73	2.71	3.09	well volume
Sampling code					
Synchronous water level	216.3 (09/25/98)	216.6 (03/26/99)	215.5 (09/22/99)	215.5 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	15.9		12.5		14						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<2.32	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	12.7	J	24		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1130		849		911		863		< 2400	5	ug/L	EX
	Sodium, total recoverable	1990		1940		2270		2200		< 4600	1	ug/L	EX
	Sulfate	145	J	<5000	U	355	J	200	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	.284	UI	.14	UI	.27	UI	.0626	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	.767	UI	-1.07	UI	.64	UI	.546	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		.76	UIJ	.39	UI	1.1	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 33

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 98031 E 51736.3	33.32699 Deg N -81.7210 Deg W	228.7 - 208.7 ft msl	255.9 ft msl	4 " PVC	S	M

SAMPLE DATE	08/27/98	02/08/99	08/16/99	02/02/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	218.18	217.77	216.5	216.22	ft msl
pH	5.4	5.1	5.2	5.1	pH
Sp. Conductance	88	85	79	81	uS/cm
Water temperature	20.2	18.4	19.8	18.4	deg. C
Alkalinity as CaCO3			1	1	mg/L
Turbidity	.7	1.1	.7	.6	NTU
Volumes purged	2.96	4.47	8.83	3.33	well volume
Sampling code					
Synchronous water level	218.2 (09/21/98)	217.4 (03/26/99)	216.3 (09/22/99)	216.1 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	2.95	J	<10	U	2.1	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	10.6						ug/L	
	Nickel, total recoverable	13.7	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	1.79	J I	<1.59	U V	1.93	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	2.66	J	4.39	J I	4.01	J K	5.76	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	13.6	J	<20	U	6200		<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	6480		10900		6970		5210		> 2400	5	ug/L	EX
+	Sodium, total recoverable	13800		16200		16500		14000		> 4600	1	ug/L	EX
+	Sulfate	963	J	<5000	U	1750		5070		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.646	UI	1.39	UI	2.54		.986	J IL	NDD	1	pCi/L	GP
	Nonvolatile beta	1.41	UI	.82	UI	2.05		2.94		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.5		1.52	UIJ	.96		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 33A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98006.7 E 51738	33.32694 Deg N -81.7210 Deg W	88.4 - 82.8 ft msl	255.4 ft msl	4" PVC	S	MCBC

SAMPLE DATE	09/30/98	03/03/99	08/23/99	03/20/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	205.35	205.54	204.59	204.28	ft msl
pH	4.7	5.2	5.1	5.3	pH
Sp. Conductance	16	22	22	21	uS/cm
Water temperature	19.3	18	19.3	19.1	deg. C
Alkalinity as CaCO3		1	0	1	mg/L
Turbidity	2	.2	.2	1.2	NTU
Volumes purged	3.52	2.24	3.48	2.49	well volume
Sampling code					
Synchronous water level	205.2 (09/21/98)	205.3 (03/26/99)	204.3 (09/22/99)	204.1 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.44	J	5.41	J I	4.7	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	14.2	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	8.96		9.82		7.61	J K	7.47		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	13.2	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1150		1260		1250	J	912		< 2400	5	ug/L	EX
	Sodium, total recoverable	1610		1760		1750		2100		< 4600	1	ug/L	EX
	Sulfate	501	J	<5000	U	327	J	1040		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.776	UI	.93	UI	1.49		.855	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.56	UI	2.99		1.22	UI	2.62	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.9		3.71	UIJ	.38		1	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 33B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 97995.9 E 51741.9	33.32692 Deg N -81.7209 Deg W	126.3 - 120.7 ft msl	255 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/23/98	03/03/99	08/23/99	03/20/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	208.04	208.2	207.25	206.96	ft msl
pH	5.3	5.4	5.4	5.3	pH
Sp. Conductance	28	32	32	31	uS/cm
Water temperature	20.8	17.7	19.2	18.6	deg. C
Alkalinity as CaCO ₃	1	2	2	2	mg/L
Turbidity	.9	1.1	.3	1	NTU
Volumes purged	7.82	2.51	3.58	3.45	well volume
Sampling code					
Synchronous water level	207.8 (09/21/98)	208 (03/26/99)	207.1 (09/22/99)	206.9 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.1		<10	U	3	J I					ug/L	
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	4.71	J	3.78	J I	<3.48	U V	3.03		< 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	12		12.5		11.4	J K	10.4		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	16.7	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	900		1170		1370		1360		< 2400	5	ug/L	EX
+	Sodium, total recoverable	4010		4480		5000		5800		> 4600	1	ug/L	EX
	Sulfate	1730		<5000	U	2040		1550		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.421	UI	.95	UI	.89		.0764	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.513	UI	-.03	UI	5.57	J	.645	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	2.38	UIJ	.18	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 33C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97984.8 E 51746.7	33.32690 Deg N -81.7209 Deg W	171 - 165.4 ft msl	255.3 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/25/98	02/08/99	08/16/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	211	211.35	210.2	210.36	ft msl
pH	5.4	5	5	5.1	pH
Sp. Conductance	66	62	62	67	uS/cm
Water temperature	20.9	18.4	18.8	18.2	deg. C
Alkalinity as CaCO3	1		0	0	mg/L
Turbidity	.6	.3	.2	.5	NTU
Volumes purged	8.76	2.43	3.73	2.35	well volume
Sampling code					
Synchronous water level	211.1 (09/21/98)	211.1 (03/26/99)	210.2 (09/22/99)	210.2 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.65	J	<10	U	5.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<2.52	U V					ug/L	
	Nickel, total recoverable	11.9	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	1.44	J I	<1.25	U V	1.03	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	4.8	J	3.14	J I	2.45	J K	2.8	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	7500		4400		4490		4780		> 2400	5	ug/L	EX
+	Sodium, total recoverable	7980		8370		10200		11000		> 4600	1	ug/L	EX
	Sulfate	428	J	<5000	U	629		475		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.658		1.83		1.54		.251	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.36		3.21		1.13	UIJ	1.29	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	-.7	UI	2.03	UIJ	.6		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 34A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104954.9 E 50534.9	33.34033 Deg N -81.7377 Deg W	118.6 - 113.6 ft msl	384 ft msl	4 " PVC	S	LL
SAMPLE DATE		08/10/98	03/02/99	08/24/99	03/11/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	216.2	218.15	216.99	217.28	ft msl	
pH	5.2	5.1	5.3	5.4	pH	
Sp. Conductance	18	22	23	21	uS/cm	
Water temperature	21.9	20.3	21.4	19.9	deg. C	
Alkalinity as CaCO ₃			1	2	mg/L	
Turbidity	.7	.2	.4	.2	NTU	
Volumes purged	2.52	2.37	2.39	2.78	well volume	
Sampling code						
Synchronous water level	215.8 (09/23/98)	214.6 (03/26/99)	217 (09/21/99)	217.1 (03/23/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.79	J	4.18	J I	5.6	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<.86	U V					ug/L	
	Nickel, total recoverable	8.76	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<100	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<100	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<100	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<100	U	<125	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<100	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	Tetrachloroethylene	44.6	J	99.3	J I	25.3	J K	29.6	J L	NDD	10	ug/L	ML
	1,1,1-Trichloroethane	<100	U	<125	U	<1	U	<10	JU L	< EQL	10	ug/L	ML
	Trichloroethylene	2500		2930		2650		1120	J L	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	16.4	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1310		1470		982		1030		< 2400	5	ug/L	EX
	Sodium, total recoverable	2000		2170		2210		2100		< 4600	1	ug/L	EX
	Sulfate	260	J	<5000	U	<400	U	270	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	.273	UI	1.06	UI	1.39		.169	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.13	UI	.84	UI	2.32		.874	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.2	UI	1.48	UIJ	.26	UI	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 34B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104944.7 E 50534.9	33.34031 Deg N -81.7376 Deg W	187 - 182 ft msl	384 ft msl	4 " PVC	S	UL
SAMPLE DATE	08/10/98	03/02/99	08/24/99	03/13/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	224.55	227.4	225.44	226.62	ft msl	
pH	5.2	5.1	5.2	5.6	pH	
Sp. Conductance	28	20	31	30	uS/cm	
Water temperature	23.7	20.6	21.3	19.3	deg. C	
Alkalinity as CaCO ₃			0	2	mg/L	
Turbidity	.8	.3	.4	.3	NTU	
Volumes purged	4.04	2.67	3.64	3.27	well volume	
Sampling code						
Synchronous water level	224.8 (09/23/98)	227.7 (03/26/99)	225.4 (09/21/99)	226.5 (03/23/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.88	J	7.57	J I	6.4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	4.46	J	<100	U	<2.88	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	3.28	J L	NDD	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	16.9		19.4		21.3	J K	19.6	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	26.4		21.6		25.9	J K	50.7	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	30.7		24.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1260		1070		1130		881		< 2400	5	ug/L	EX
	Sodium, total recoverable	2240		2300		2700		3000		< 4600	1	ug/L	EX
	Sulfate	162	J	<5000	U	<400	U	577		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.39		3.86		3.88		1.8		< 15	1	pCi/L	GP
	Nonvolatile beta	1.69		3.03		4.79		1.93	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.3		6.28	J	.91		1.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 34C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104934.1 E 50535.5	33.34029 Deg N -81.7376 Deg W	240.9 - 220.9 ft msl	383.9 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/10/98	03/02/99	08/24/99	03/13/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.9	229.1	229.5	228.58	ft msl
pH	4.9	5.2	5.1	5.7	pH
Sp. Conductance	20	20	21	20	uS/cm
Water temperature	23.3	20.7	21.4	20.5	deg. C
Alkalinity as CaCO3			0	2	mg/L
Turbidity	2.3	.7	1.3	.3	NTU
Volumes purged	9.19	2.29	2.72	7.13	well volume
Sampling code					
Synchronous water level	229.2 (09/23/98)	229.1 (03/26/99)	229.4 (09/21/99)	228.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.08	J	3.2	J I	3.7	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	12.3		<100	U	15.2						ug/L	
	Nickel, total recoverable	8.06	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<25	U	<5	U	<1	U	4.66	J L	NDD	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	5.43		4.27	J I	<3.18	U V	6.5	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	12.8		7.58		5.65	J K	11.3	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	47.6		38.8		72.6	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1760		1250		1350		1250		< 2400	5	ug/L	EX
	Sodium, total recoverable	1550		1610		2120		2100		< 4600	1	ug/L	EX
	Sulfate	238	J	<5000	U	<400	U	755		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	2.93		3.08		4.77		2.32		< 15	1	pCi/L	GP
	Nonvolatile beta	2.02		2.41		5.33		3		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.9		3.08	J	1.72		1.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 34TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104905.8 E 50536.6	33.34023 Deg N -81.7376 Deg W	-91.9 - -102. ft msl	383.4 ft msl	4 " STEEL	S	CBA

<u>SAMPLE DATE</u>	08/20/98	02/09/99	08/24/99	03/13/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	192.2	201.33	200.65	201.02	ft msl
pH	5.8	5.7	6.2	6	pH
Sp. Conductance	12	23	27	26	uS/cm
Water temperature	19.8	19.9	22.1	19	deg. C
Alkalinity as CaCO3	2	4	6	14	mg/L
Turbidity	8.4	6.7	4.3	2.4	NTU
Volumes purged	7.88	7.44	8.65	7.21	well volume
Sampling code					
Synchronous water level	184.1 (09/23/98)	194.7 (03/26/99)	200.6 (09/21/99)	200.9 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.97	J	2.27	J I	2.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<.91	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<1.26	U V					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	1.75	J L	NDD	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	14		12.8	J Q	13.1	J K	12.1	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	17.3	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	990		694		718		699		< 2400	5	ug/L	EX
	Sodium, total recoverable	1690		1780		<1670	U	1900		< 4600	1	ug/L	EX
	Sulfate	429	J	<5000	U	971		369	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	.293	UI	2.69	UI	.87		.603	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.19	UI	2.23	UI	1.34	UI	1.4	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	.92	J	.62		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 35A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102098 E 50945.2	33.33469 Deg N -81.7310 Deg W	128.8 - 123.2 ft msl	350.9 ft msl	4 " PVC	S	MCBC

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	216.1 (09/21/98)	216.3 (03/26/99)	216 (09/22/99)	215 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 35B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 102110.8 E 50947.9	33.33472 Deg N -81.7310 Deg W	169.3 - 163.7 ft msl	351.6 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/24/98	02/08/99	08/16/99	01/31/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	218.21	213.88	217.95	217.78	ft msl
pH	5.7	5.9	5.6	4.7	pH
Sp. Conductance	39	38	34	32	uS/cm
Water temperature	20.2	18.6	20	17.9	deg. C
Alkalinity as CaCO3	7	6	7	8	mg/L
Turbidity	.5	2.6	.8	.9	NTU
Volumes purged	2.16	4.60	2.65	2.43	well volume
Sampling code					
Synchronous water level	219.5 (09/21/98)	218.8 (03/26/99)	217.8 (09/22/99)	217.6 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	4.78	J	<10	U	3.8	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.56	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	6.16	J	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	34.7	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	320		205		216	J	215	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	4210	J	4470		4650		4400		< 4600	1	ug/L	EX
	Sulfate	1610		<5000	U	1410		1370		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.749	UI	.58	UI	.83	UIJ	.0953	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.246	UI	-1.08	UI	-.1	UI	1.21	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.1	UI	2.06	UIJ	.02	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 35TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102101.6	33.33466 Deg N	38.2 - 32.9 ft msl	350.3 ft msl	4 " CS	S	CBA
E 50919.6	-81.7311 Deg W					

<u>SAMPLE DATE</u>	09/02/98	02/08/99	08/16/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	197.3	199.42	198.35	198.85	ft msl
pH	4.9	6	5	4.9	pH
Sp. Conductance	20	16	17	16	uS/cm
Water temperature	19.4	18.9	20.7	18.2	deg. C
Alkalinity as CaCO3		1	0	1	mg/L
Turbidity	2.2	1.8	1.1	8.1	NTU
Volumes purged	2.76	2.70	2.31	3.06	well volume
Sampling code					
Synchronous water level	193.9 (09/21/98)	199.7 (03/26/99)	198.2 (09/22/99)	198.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.4		<10	U	2.6	J I					ug/L	
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	6.6	J	<100	U	5.96						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	49.2	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	790		368		9630		349	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1420	J	1480		1510		1500		< 4600	1	ug/L	EX
	Sulfate	197	J	<5000	U	673		693		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.363	UI	.46	UI	.661		.306	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.307	UI	-1.94	UI	.533	UI	.729	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.2	UI	.96	UIJ	.67		-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100511.3 E 49514.9	33.32885 Deg N -81.7317 Deg W	100.5 - 94.9 ft msl	340.6 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/23/98	02/24/99	08/31/99	03/17/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	209.6	209.67	210	209.48	ft msl
pH		4.1	4.5	4.5	pH
Sp. Conductance		45	41	39	uS/cm
Water temperature		19.6	20.5	20	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity		.1	.3	.4	NTU
Volumes purged	1.24	2.21	2.20	2.20	well volume
Sampling code	NP				
Synchronous water level	209 (09/21/98)	210 (03/26/99)	210 (09/21/99)	209.4 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			12.2		12						ug/L	
	Cyanide			<10	U	<10	U					ug/L	
	Lead, total recoverable			<100	U	5	J I					ug/L	
	Nickel, total recoverable			<8.92	JU	<50	U					ug/L	
	Selenium, total recoverable			<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene			<125	U	<1	U	<2	JU	< EQL	2	ug/L	ML
	1,1-Dichloroethane			<125	U	<1	U	<2	JU	< EQL	2	ug/L	ML
	1,1-Dichloroethylene			<125	U	<1	U	<2	JU	< EQL	2	ug/L	ML
	trans-1,2-Dichloroethylene			<125	U	<1	U	<2	JU	< EQL	2	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<125	U	<1	U	<2	JU	< EQL	2	ug/L	ML
	Tetrachloroethylene			76.2	J I	24.6	J K	15.4	J	NDD	2	ug/L	ML
	1,1,1-Trichloroethane			<125	U	<1	U	<2	JU	< EQL	2	ug/L	ML
	Trichloroethylene			1410		546		542	J	NDD	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	68.1		46.6				73	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	740	J	516				392	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1780		1820				1900		< 4600	1	ug/L	EX
+	Sulfate	6490		6650				6610		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.87		2.03				1.64	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.39		1.24	UI			2.08	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.8		4.49	UIJ			.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 36B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 100514.9 E 49526.3	33.32887 Deg N -81.7317 Deg W	163.7 - 158.1 ft msl	340.8 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/23/98	03/09/99	08/31/99	03/17/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	213.9	214.08	213.25	213.4	ft msl
pH	4.8	4.5	5	5.5	pH
Sp. Conductance	74	75	72	71	uS/cm
Water temperature	19.2	18.6	19.4	19.1	deg. C
Alkalinity as CaCO3		1	0	3	mg/L
Turbidity	3.3	11.1	5.7	.8	NTU
Volumes purged	5.86	3.03	3.35	2.79	well volume
Sampling code					
Synchronous water level	213.9 (09/21/98)	214.1 (03/26/99)	213.3 (09/21/99)	213.2 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	23.7		23.1		21						ug/L	
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	9.69	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<100	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<100	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<100	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<100	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<100	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	Tetrachloroethylene	<100	U	<125	U	1.8	J K	2.3	J I	NDD	5	ug/L	ML
	1,1,1-Trichloroethane	<100	U	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	1140		1930		1330		1180		> 5	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	106		3610		235		190	J I	NDD	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	15200	J	11300		7520		6690		> 2400	5	ug/L	EX
	Sodium, total recoverable	5250		4410		4620		4400		< 4600	1	ug/L	EX
	Sulfate	411	J	<5000	U	400		397	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	5.94		20.9		6.28		2.55	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	5.02		8.4		5.04		2.02	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	2.1		5	UIJ	3.95		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 36C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 100518.3 E 49537.2	33.32890 Deg N -81.7316 Deg W	194.2 - 188.6 ft msl	340.9 ft msl	4" PVC	S	UL

SAMPLE DATE	09/23/98	02/24/99	08/31/99	03/17/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	214.2	213.8	213.34	213.48	ft msl
pH	4.7	4.6	5.1	5.3	pH
Sp. Conductance	48	40	38	38	uS/cm
Water temperature	19.2	18.5	19	18.8	deg. C
Alkalinity as CaCO3			0	1	mg/L
Turbidity	1.2	.3	1.2	.3	NTU
Volumes purged	9.92	4.13	3.77	3.20	well volume
Sampling code					
Synchronous water level	214.1 (09/21/98)	214.1 (03/26/99)	213.3 (09/21/99)	213.3 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	14.2		11.1		9.6	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	5.59		1.22	J I	.95	J IK	.77	J I	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	53		13.2		10.1	J K	8.48		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	49.8		38.2		131	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3000		3050		<500	U	2430		> 2400	5	ug/L	EX
	Sodium, total recoverable	4040		4060		5310		3500		< 4600	1	ug/L	EX
	Sulfate	154	J	<5000	U	<400	U	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	2.39		3.87		5.73		1.67	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.75		3.12		3.16	J	.9	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.9		7.4	J	1.22		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 36D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 100521.7 E 49548.3	33.32892 Deg N -81.7316 Deg W	249.5 - 228.8 ft msl	341.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/23/98	03/05/99	09/01/99	03/17/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	235.15	235.3	235.12	232.59	ft msl
pH	6.4	5.5	5.6	6.5	pH
Sp. Conductance	40	30	24	52	uS/cm
Water temperature	20.6	18.5	21	24.1	deg. C
Alkalinity as CaCO ₃	4	9	5	20	mg/L
Turbidity	133	39.7	31.7	49.5	NTU
Volumes purged	.244	.238	1.96	2.48	well volume
Sampling code	NX	TX	NX	NX	
Synchronous water level	233.5 (09/21/98)	235.2 (03/26/99)	235.1 (09/21/99)	232.5 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	5.82	J	4.38	J I	7	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	156		<100	U	67						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<14	JU I					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<10	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<10	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<10	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<10	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<10	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	132		<5	U	.63	J IK	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<10	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	90.8		<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable					<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	930		1110		2690		736		< 2400	5	ug/L	EX
	Sodium, total recoverable					3170		2500		< 4600	1	ug/L	EX
	Sulfate	235	J	<5000	U	606		<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	1.01		-.93	UI	.99	UI	.992	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	.747	UI	-3.09	UI	-.41	UIJ	1.39	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		2.33	UIJ	.39	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 36TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100507.7 E 49503	33.32882 Deg N -81.7317 Deg W	53.4 - 48.4 ft msl	340.6 ft msl	4" CS	S	CBA

<u>SAMPLE DATE</u>	09/02/98	02/08/99	08/18/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	164.3	195.04	193.84	194.1	ft msl
pH	4.7	5.4	5.1	5.3	pH
Sp. Conductance	23	22	21	23	uS/cm
Water temperature	21.7	19.3	20.8	18.9	deg. C
Alkalinity as CaCO3		9	0	2	mg/L
Turbidity	.6	3.1	.4	.9	NTU
Volumes purged	2.54	2.57	2.49	2.26	well volume
Sampling code					
Synchronous water level	162.6 (09/21/98)	195.3 (03/26/99)	193.8 (09/21/99)	193.9 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.64	J	<10	U	5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	7.09						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<12	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	79.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	330		<59	U	721		<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1480		1520		1490		1700		< 4600	1	ug/L	EX
	Sulfate	2300		<5000	U	2050		2350		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.628	UI	.73	UI	1.42	J	.306	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.674	UI	3.43		3.37	J	.121	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		1.27		.14	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 37A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105295 E 51439.8	33.34256 Deg N -81.7359 Deg W	73.7 - 68.1 ft msl	383 ft msl	4 " PVC	S	CBA

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	196.4 (09/23/98)	204.6 (03/26/99)	204.8 (09/21/99)	()	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 37B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105289.5 E 51450	33.34257 Deg N -81.7359 Deg W	142.3 - 136.7 ft msl	382.7 ft msl	4" PVC	S	MCBC

<u>SAMPLE DATE</u>	08/10/98	03/10/99	08/31/99	03/13/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.9	219.65	217.43	218.01	ft msl
pH	5.8	5.2	5.9	5.7	pH
Sp. Conductance	20	26	25	24	uS/cm
Water temperature	20.8	19.8	19.7	19.3	deg. C
Alkalinity as CaCO3	2	3	7	4	mg/L
Turbidity	.8	.1	.3	.8	NTU
Volumes purged	3.08	2.63	2.57	2.59	well volume
Sampling code					
Synchronous water level	216.7 (09/23/98)	218.6 (03/26/99)	217.5 (09/21/99)	217.9 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.89	J	8.6		7.7	J I					ug/L	
	Cyanide	<10	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	1.44		< 5	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	69.9		68		69.1	J K	54.1		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	43.9		40.4		32.1	J K	73.1		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	12.3	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1080	J	855		814		850		< 2400	5	ug/L	EX
	Sodium, total recoverable	2170		2980		1890		1800		< 4600	1	ug/L	EX
	Sulfate	525	J	<5000	U	<400	U	444		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.529		1.35		.74	UI	.636	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.33		2.46		14.53		.662	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		4.57	UIJ	.22	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 37C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105283.2 E 51439.8	33.34254 Deg N -81.7359 Deg W	180.8 - 175.2 ft msl	383 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/10/98	03/02/99	08/31/99	03/13/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	226	227.35	226.42	226.3	ft msl
pH	5.2	5	5.2	5.3	pH
Sp. Conductance	26	32	31	31	uS/cm
Water temperature	21.8	20.1	20.2	19.6	deg. C
Alkalinity as CaCO3		2	0	2	mg/L
Turbidity	.6	.2	.3	.3	NTU
Volumes purged	3.86	2.38	2.66	2.85	well volume
Sampling code					
Synchronous water level	226.5 (09/23/98)	227.5 (03/26/99)	226.4 (09/21/99)	226.2 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.4	J	4.54	J I	4.1	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	1.23		< 5	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	8.42		9.05		6.68	J K	6.6		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	2.54	J	5.25		1.92	J K	2.34		< 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<34.3	U	11.7	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	660	J	569		543		475	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1950		2250		2710		2700		< 4600	1	ug/L	EX
	Sulfate	477	J	<5000	U	<400	U	416		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.66		.46	UI	2.22		.417	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.84		1.73	UI	5.84		2.8	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3		2.2	UIJ	.53		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 38C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102373.1 E 49762	33.33337 Deg N -81.7347 Deg W	169 - 164.3 ft msl	358.8 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/10/98	03/02/99	09/27/99	03/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.3	217.1	216.29	220.17	ft msl
pH	6.3	6.2	7.1	7	pH
Sp. Conductance	38	42	54	38	uS/cm
Water temperature	20.6	20.4	20.6	19.6	deg. C
Alkalinity as CaCO3	5	15	16	8	mg/L
Turbidity	1.3	.7	1.2	1	NTU
Volumes purged	2.74	2.26	0	3.64	well volume
Sampling code					
Synchronous water level	218.7 (09/21/98)	217.5 (03/29/99)	216.9 (09/21/99)	220 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	24.4		38.1		36.9						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<250	U	<500	U	<.52	U V	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	6630		18600		8120		7100	J K	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<500	U	<1	U	<50	U	< EQL	50	ug/L	ML
	Trichloroethylene	6880		18700		9500		8760	J K	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<56.5	U	43.7		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1860		2190		1460		1440		< 2400	5	ug/L	EX
	Sodium, total recoverable	2930	J	1970		2170		2270		< 4600	1	ug/L	EX
	Sulfate	243	J	<5000	U	<400	U	178	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.34	UI	.02	UI	1.23		1.2	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.92		.3	UI	2.38		.472	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	.89	UIJ	.22	UI	.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 39B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 100844.6 E 48376.9	33.32772 Deg N -81.7353 Deg W	149.6 - 144 ft msl	341.8 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/22/98	03/02/99	08/12/99	03/15/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	212.62	211.62	211.9	212.52	ft msl
pH	4.6	4.7	4.9	5	pH
Sp. Conductance	200	180	150	126	uS/cm
Water temperature	19.6	18.4	20	18.1	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.5	.2	.7	.3	NTU
Volumes purged	2.99	2.94	2.39	3.19	well volume
Sampling code					
Synchronous water level	211.4 (09/21/98)	211.6 (03/26/99)	211.7 (09/22/99)	212.4 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	29		28.4		24						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<1.96	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<7.6	JU I					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	7.6		5.96		4.91	J K	4.91	J	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	99.6		103		122	J K	177	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	.85	J IK	.66	J I	NDD	1	ug/L	ML
	Trichloroethylene	152		150		176	J K	401	J	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	79.9		97.1		90.8	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	28000		23200		17100		14600		> 2400	5	ug/L	EX
+	Sodium, total recoverable	33200		30200		23100		21000		> 4600	1	ug/L	EX
	Sulfate	<1000	U	<5000	U	437		266		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	8.54		2.67		4.72		1.37	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	17.2		10.1		19.51		6.52		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.1		2.2		2.64		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 39C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100852.1 E 48386.7	33.32776 Deg N -81.7353 Deg W	199.6 - 194 ft msl	341.5 ft msl	4 " PVC	S	UL
SAMPLE DATE		09/22/98	03/02/99	08/12/99	03/10/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	215.7	215.23	215.04	213.78	ft msl	
pH	4.4	4.7	4.8	4.9	pH	
Sp. Conductance	44	42	41	38	uS/cm	
Water temperature	20.5	18.1	20.3	19.2	deg. C	
Alkalinity as CaCO ₃			0	0	mg/L	
Turbidity	.5	.3	.3	.2	NTU	
Volumes purged	5.81	2.54	3.15	3.97	well volume	
Sampling code						
Synchronous water level	215.1 (09/21/98)	215.2 (03/26/99)	215 (09/22/99)	213.6 (03/22/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.57	J	7.13	J I	6.9	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<2.34	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	2.73	J	2.44	J I	<3.04	U V	2.19	J	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	27.7		28.5		25.3	J K	24.5	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	96.2		80.7		79.9	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2880		3040		2040		2080		< 2400	5	ug/L	EX
	Sodium, total recoverable	2710		3110		3230		3300		< 4600	1	ug/L	EX
	Sulfate	283	J	<5000	U	453		417		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.898		.25	UI	.56	UI	1.12	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	1.22	UI	-1.47	UI	4.91		1.5	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2		7.72	UIJ	.98		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 39D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100858.7 E 48396	33.32779 Deg N -81.7353 Deg W	239.7 - 219 ft msl	341.8 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/01/98	02/08/99	09/13/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.59	232.1	231.35	230.49	ft msl
pH	5.1	5.2	5.1	5.3	pH
Sp. Conductance	41	24	25	25	uS/cm
Water temperature	22.5	18.9	19.6	18.5	deg. C
Alkalinity as CaCO ₃	1	2	1	1	mg/L
Turbidity	9.9	6.9	1.8	.8	NTU
Volumes purged		12.1	4.60	12.6	well volume
Sampling code	NX				
Synchronous water level	226.5 (09/21/98)	232 (03/26/99)	231.4 (09/22/99)	230.3 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.48	J	<10	U	4.81	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	3.64	J I					ug/L	
	Nickel, total recoverable	<10.9	U	<50	U	26.6	J I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	3.41	J	1.49	J I	.67	J I	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	40.1		53.3		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1500		851		99	J	860		< 2400	5	ug/L	EX
	Sodium, total recoverable	2370		2450		2900		1980		< 4600	1	ug/L	EX
	Sulfate	204	J	<5000	U	405		490		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	5.54		1.68		4		2.15		< 15	1	pCi/L	GP
	Nonvolatile beta	2.61		.32	UI	2.74	U	1.35	J IK	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	2.1		9.14	J	.73	U	1.2	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 39TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 100830.6 E 48357.7	33.32766 Deg N -81.7354 Deg W	49.7 - 44.4 ft msl	341.8 ft msl	4" CS	S	CBA

<u>SAMPLE DATE</u>	09/01/98	02/08/99	08/06/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	191	192.88	192.17	192	ft msl
pH	5.2	5.2	5.3	5.3	pH
Sp. Conductance	20	18	16	17	uS/cm
Water temperature	20.3	18.9	20.4	18.2	deg. C
Alkalinity as CaCO3		3	1	2	mg/L
Turbidity	10.6	13.2	4.9	5.3	NTU
Volumes purged	3.85	2.98	4.39	2.98	well volume
Sampling code					
Synchronous water level	188.9 (09/21/98)	193.1 (03/26/99)	192.1 (09/22/99)	191.9 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.4		<10	U	2.6	J I					ug/L	
	Cyanide	2.77	J	<10	U	<10	U					ug/L	
	Lead, total recoverable	5.6	J	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	33.6		24.8		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	210		<10	U	4	J	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1420		1410		1510		1400		< 4600	1	ug/L	EX
	Sulfate	1120		<5000	U	*****		1430		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.225	UI	-.67	UI	.509		1.13	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.43	UI	-1.12	UI	3.15	U	3.47		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.3		9.94	J	.5		1.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 40A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97672.8 E 48279.4	33.32055 Deg N -81.7294 Deg W	116.2 - 110.6 ft msl	321.2 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/02/98	02/08/99	08/13/99	02/03/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	203.13	203.92	203.1	202.2	ft msl
pH	4.3	4.4	4.8	4.7	pH
Sp. Conductance	58	44	52	50	uS/cm
Water temperature	20	19.9	21	18.2	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.6	.2	.5	.7	NTU
Volumes purged	2.31	2.49	2.79	2.52	well volume
Sampling code					
Synchronous water level	203.1 (09/21/98)	203.7 (03/26/99)	202.6 (09/22/99)	202.1 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.6		<10	U	18						ug/L	
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<3.73	U V					ug/L	
	Nickel, total recoverable	5.3	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	3.86	J	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	75.9		60.3		96.1	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	350		<10	U	403	J	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1960		2050		2080		2500		< 4600	1	ug/L	EX
+	Sulfate	12200		11800		11800		13300		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.33		1.31		1.71	J	.608	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.03	UI	1.76	UI	4.64	J	1.96	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.9		3.99	UI	.4	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 40B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97685 E 48281.6	33.32058 Deg N -81.7294 Deg W	154.7 - 149.1 ft msl	321.7 ft msl	4 " PVC	S	LL

SAMPLE DATE 09/22/98 03/02/99 09/02/99 03/11/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	205.3	205.3	204.28	203.5	ft msl
pH	4.6	4.6	4.7	4.8	pH
Sp. Conductance	60	56	67	79	uS/cm
Water temperature	20.1	20	19.1	19.6	deg. C
Alkalinity as CaCO3	1		0	0	mg/L
Turbidity	.5	.2	.9	.3	NTU
Volumes purged	2.23	2.31	3.27	2.81	well volume
Sampling code					
Synchronous water level	205 (09/21/98)	205.2 (03/26/99)	204.3 (09/22/99)	203.5 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14.4		14.3		18						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<125	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	Tetrachloroethylene	<50	U	<125	U	.89	J IK	<10	U	< EQL	10	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	Trichloroethylene	1380		2430		1720		1810	J K	NDD	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<51.6	U	30.5		184	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4800		3930		3760		5720		> 2400	5	ug/L	EX
	Sodium, total recoverable	3640		3590		4070		4300		< 4600	1	ug/L	EX
	Sulfate	1260		<5000	U	1240		1140		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	3.45		1.74		2.8		2.07	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.96		1.53	UI	4.35		4.72		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.9		4.41	UIJ	1.66		1.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 40C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97697.8 E 48283.5	33.32062 Deg N -81.7295 Deg W	192.4 - 186.8 ft msl	322 ft msl	4 " PVC	S	UL
SAMPLE DATE		09/01/98	02/08/99	08/26/99	03/11/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	204.04	205.56	204.51	203.57	ft msl	
pH	5.6	5.4	5.5	5.7	pH	
Sp. Conductance	60	54	55	51	uS/cm	
Water temperature	20.8	20.2	21	20.6	deg. C	
Alkalinity as CaCO3	16	4	4	6	mg/L	
Turbidity	1.2	.4	1	.3	NTU	
Volumes purged	2.86	2.71	2.70	2.67	well volume	
Sampling code						
Synchronous water level	205.1 (09/21/98)	205.3 (03/26/99)	204.6 (09/22/99)	203.4 (03/22/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.72	J	<10	U	9.8	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<2.66	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<7.2	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	3.37	J	5.4		5.08	J K	5.99	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	143		120		121	J	120	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	330		323		<500	U	325	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2490		2160		2280		2400		< 4600	1	ug/L	EX
+	Sulfate	14200		9670		10700		8390		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.13	UI	.17	UI	.15	UI	.165	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.29	UI	2.59		.91	UI	.511	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		3.61	UIJ	.08	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 41B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102194.5 E 53417.8	33.33894 Deg N -81.7247 Deg W	114.2 - 108.6 ft msl	324 ft msl	4 " PVC	S	MCBC
SAMPLE DATE	08/25/98	03/10/99	09/02/99	03/10/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	216.8	217.97	216.65	216.28	ft msl	
pH	5.9	5.4	5.4	5.9	pH	
Sp. Conductance	24	25	22	23	uS/cm	
Water temperature	20.8	19.1	18.7	19.5	deg. C	
Alkalinity as CaCO3	3	3	2	3	mg/L	
Turbidity	.9	.4	.9	.7	NTU	
Volumes purged	3.74	2.40	2.36	2.58	well volume	
Sampling code						
Synchronous water level	216.6 (09/22/98)	217.5 (03/26/99)	216.6 (09/22/99)	216.1 (03/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.88	J	11.5		11						ug/L	
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	13.1	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	5.48	J	7.22		7.53	J K	6.17	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	3.09	J f	3.2	J K	2.94	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen			720		1070		1050		< 2400	5	ug/L	EX
	Sodium, total recoverable			1410		1430		1400		< 4600	1	ug/L	EX
	Sulfate			<5000	U	423		193	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha			1.01	UI	3.16		1.93	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta			1.03	UI	2.75	J	2.61	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting			2.97	UIJ	.64		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 41TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102176.5 E 53429.7	33.33892 Deg N -81.7246 Deg W	26.7 - 21.4 ft msl	323.7 ft msl	4 " CS	S	CBA

SAMPLE DATE	08/24/98	02/09/99	08/18/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	205.1	206.64	205.63	206.11	ft msl
pH	5.8	5.5	4.8	4.8	pH
Sp. Conductance	25	22	22	22	uS/cm
Water temperature	19.7	19	20.7	18.7	deg. C
Alkalinity as CaCO3	2	1	0	2	mg/L
Turbidity	1.4	1.9	.5	.7	NTU
Volumes purged	2.15	2.45	2.49	2.37	well volume
Sampling code					
Synchronous water level	203.3 (09/22/98)	206.9 (03/26/99)	205.5 (09/22/99)	206 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.49	J	6.06	J I	6.2	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	8.72	J	<100	U	7.16						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<8.8	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	.51	J IK	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	1.39	J K	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	14.1	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1550		961		769		862		< 2400	5	ug/L	EX
	Sodium, total recoverable	1640		2930		2100		2000		< 4600	1	ug/L	EX
	Sulfate	851	J	1100	J	1290		873		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.892		.71	UI	.97	UIJ	.749	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.8		1.25	UI	.52	UI	.264	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	1.17		.15	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 42B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104569.8 E 51582.8	33.34119 Deg N -81.7341 Deg W	166.3 - 160.7 ft msl	376.4 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/17/98	03/02/99	09/13/99	03/22/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	223	225.07	223.9	223.26	ft msl
pH	4.8	4.8	4.9	4.9	pH
Sp. Conductance	22	24	23	23	uS/cm
Water temperature	21.9	20.2	20.3	19.9	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.7	.2	.1	.3	NTU
Volumes purged	3.88	1.92	2.71	2.69	well volume
Sampling code					
Synchronous water level	223.9 (09/23/98)	225.2 (03/26/99)	223.8 (09/23/99)	223.3 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.66	J	42.9		3.65	J I					ug/L	
	Cyanide	<10	U	1.52	J I	<10	U					ug/L	
	Lead, total recoverable	<10	U	57.3		<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	1.39	J	<5	U	.95	J I	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	13.2		14.6		9.53		5.8	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1540		1180		1100		950		< 2400	5	ug/L	EX
	Sodium, total recoverable	2170		2040		2290		2160		< 4600	1	ug/L	EX
	Sulfate	241	J	<5000	U	<200	U	480		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.88	UI	.97	UI	1.84		.728	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	8.75		.16	UI	3.88		1.01	J IK	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		3.42	UIJ	.42	U	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 42C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104581.9 E 51582.8	33.34122 Deg N -81.7342 Deg W	204.3 - 198.7 ft msl	376.4 ft msl	4 " PVC	S	UL
SAMPLE DATE		08/24/98	02/09/99	09/13/99	03/22/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	229.15	229.78	229.45	228.54	ft msl	
pH	5.3	5.2	5.1	5.1	pH	
Sp. Conductance	26	24	25	24	uS/cm	
Water temperature	20.7	19.1	20.5	20	deg. C	
Alkalinity as CaCO ₃		1	0	1	mg/L	
Turbidity	.3	1.1	.1	.3	NTU	
Volumes purged	4.07	5.22	3.03	4.00	well volume	
Sampling code						
Synchronous water level	229.4 (09/23/98)	230.2 (03/26/99)	229.3 (09/23/99)	228.5 (03/22/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.49	J	5.58	J I	5.18	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	6.25	J	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	.63	J I	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	5.56		7.32	J Q	2.63		3.78	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	29.9		<200	U	109	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1340		31	J	1040		960		< 2400	5	ug/L	EX
	Sodium, total recoverable	2440		2410		2750		2660		< 4600	1	ug/L	EX
	Sulfate	286	J	<5000	U	401		500		< 3000	1	ug/L	EX
Radionuclides													
+	Gross alpha	1.4	J	1.78	UI	1.25	J	21.8		> 15	1	pCi/L	GP
	Nonvolatile beta	1.57		1.71	UI	2.76		5.82	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	1.87		.52		1.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 42D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104595.2 E 51582.5	33.34125 Deg N -81.7342 Deg W	247.2 - 226.6 ft msl	376.4 ft msl	4 " PVC	B	M

SAMPLE DATE 08/17/98 03/02/99 09/13/99 02/16/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.5	231.27	230.69	229.93	ft msl
pH	5	5.2	5.1		pH
Sp. Conductance	22	19	20		uS/cm
Water temperature	23.3	19.8	20.6		deg. C
Alkalinity as CaCO3			0		mg/L
Turbidity	3.9	3.2	3.7		NTU
Volumes purged	5.22	3.00	8.79		well volume
Sampling code					
Synchronous water level	230.6 (09/23/98)	231.3 (03/26/99)	230.6 (09/23/99)	229.7 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.21	J	6.5	J I	5.42	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	8.55	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	3.6	J	3.95	J I	3.55		4.2		< 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	182	J	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1190		1030		780		660		< 2400	5	ug/L	EX
	Sodium, total recoverable	2030		1630		<1760	U	1640		< 4600	1	ug/L	EX
	Sulfate	272	J	<5000	U	<400	U	770		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	3.73		10.5		8.19		2.19		< 15	1	pCi/L	GP
	Nonvolatile beta	2.73		12.6		18.68		1.53	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.3		3.46	UIJ	2.02		1.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 42TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 104545.6 E 51581.7	33.34114 Deg N -81.7341 Deg W	45.8 - 40.5 ft msl	376.6 ft msl	4 " CS	S	CBA

SAMPLE DATE	08/17/98	03/02/99	09/13/99	03/21/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	202.64	202.5	203.65	203.71	ft msl
pH	5.2	5.2	5.5	5.5	pH
Sp. Conductance	18	19	19	18	uS/cm
Water temperature	20.1	19.7	20.9	19.9	deg. C
Alkalinity as CaCO3		4	2	2	mg/L
Turbidity	2	6.3	7.4	4.5	NTU
Volumes purged	4.05	2.26	2.17	2.26	well volume
Sampling code					
Synchronous water level	194.6 (09/23/98)	203.5 (03/26/99)	203.6 (09/23/99)	203.7 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.1	J	3.29	J I	3.41	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	8.07	J	<100	U	13						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	32.8	J	41.6		40.1		34.7		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	68.7	J	87.3		88.7		73.5		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	13.3	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1020		816		640		620		< 2400	5	ug/L	EX
	Sodium, total recoverable	1490		1450		<1720	U	1590		< 4600	1	ug/L	EX
	Sulfate	274	J	<5000	U	<400	U	360		< 3000	1	ug/L	EX
Radionuclides													
+	Gross alpha	1.48	UI	.23	UI	1.39		19.6		> 15	1	pCi/L	GP
	Nonvolatile beta	1.13	UI	.65	UI	7.24		4.39	J K	NDD	1	pCi/L	GP
+	Radium, total alpha-emitting	.1	UI	7.81	UIJ	.37	U	6.7		> 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 43TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.8 E 49281.8	33.34342 Deg N -81.7455 Deg W	40.3 - 35 ft msl	357.5 ft msl	4" CS	S	CBA

<u>SAMPLE DATE</u>	08/24/98	08/16/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	199.93	<i>Not Available</i>	201.87	202.21	ft msl
pH	5.4		5.1	4.9	pH
Sp. Conductance	18		16	16	uS/cm
Water temperature	19.7		21.1	19.2	deg. C
Alkalinity as CaCO3	2		0	3	mg/L
Turbidity	7.8		4.7	5.7	NTU
Volumes purged	2.45		3.87	3.17	well volume
Sampling code					
Synchronous water level	196.7 (09/24/98)	202.1 (03/26/99)	201.8 (09/22/99)	201.5 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U	<10	U					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<3.68	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<8.4	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	44.4		14.2	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	500		97		106	J	103	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1400		1400		1610		1500		< 4600	1	ug/L	EX
	Sulfate	680	J	<5000	U	758		839		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.242	UI	.06	UI	.24	UIJ	.366	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.705	UI	-.14	UI	-.32	UI	.671	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	.57	UIJ	.02	UI	-.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 45A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103998.1 E 50554.7	33.33825 Deg N -81.7357 Deg W	139.2 - 129.2 ft msl	380.8 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/25/98	03/10/99	09/01/99	03/13/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	214.1	216	214.38	216.33	ft msl
pH	5.8	5.2	5.6	7.4	pH
Sp. Conductance	20	33	31	47	uS/cm
Water temperature	21	19.9	19.7	18.2	deg. C
Alkalinity as CaCO ₃	1	3	5	13	mg/L
Turbidity	.4	.1	.2	1.1	NTU
Volumes purged	4.40	3.10	3.09	2.30	well volume
Sampling code					
Synchronous water level	212.7 (09/23/98)	216.5 (03/29/99)	214.4 (09/21/99)	216.2 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.4		24.5		17						ug/L	
	Cyanide	<10	U	<10	JU L	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	14.4	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<25	UJ	<50	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<25	UJ	<50	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<25	UJ	<50	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	UJ	<50	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	UJ	<50	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	Tetrachloroethylene	142	J	116		120	J K	100	J	NDD	5	ug/L	ML
	1,1,1-Trichloroethane	<25	UJ	<50	U	<1	U	<5	JU	< EQL	5	ug/L	ML
	Trichloroethylene	806	J	706		725		776	J	NDD	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U			<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1340				993		962		< 2400	5	ug/L	EX
	Sodium, total recoverable	2850				2580		2600		< 4600	1	ug/L	EX
	Sulfate	353	J			582		372	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.68	UI			2.58		.96	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.65				3.86	J	1.47	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	~.1	UI			.55		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 45B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.9 E 50555.3	33.33823 Deg N -81.7357 Deg W	190 - 180 ft msl	380.9 ft msl	4 " PVC	S	UL

SAMPLE DATE 09/02/98 02/09/99 08/18/99 02/04/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	224.12	224.58	223.95	224.48	ft msl
pH	5.2	5.6	5.3	5.5	pH
Sp. Conductance	42	38	40	40	uS/cm
Water temperature	20.6	19.2	21.3	18.2	deg. C
Alkalinity as CaCO3	1	15	4	4	mg/L
Turbidity	.5	.7	.2	.6	NTU
Volumes purged	2.98	4.60	4.29	2.82	well volume
Sampling code					
Synchronous water level	223.6 (09/23/98)	226.9 (03/29/99)	224 (09/21/99)	223 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	<10	U	<10	U	<10	U					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	1.89	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<11	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	20.8		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	530		1200		595		255	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	6480		7310		7480		8100		> 4600	1	ug/L	EX
+	Sulfate	5870		6470		4720		5640		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.083	UI	.88	UI	.43	UIJ	.635	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.64	UI	2.02		.21	UIJ	.774	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	1.4	J	.22	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 46A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103098.6 E 50548.3	33.33625 Deg N -81.7340 Deg W	130 - 120 ft msl	372.6 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/02/98	02/09/99	08/19/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	213.72	214.7	214.24	214.15	ft msl
pH	6.3	6.4	6.5	8.1	pH
Sp. Conductance	160	150	156	150	uS/cm
Water temperature	28.2	18.8	27.4	11.2	deg. C
Alkalinity as CaCO3	52	46	60	53	mg/L
Turbidity	3.6	.7	.7	1.1	NTU
Volumes purged		.016	.016	.016	well volume
Sampling code	NX	X	NX	X	
Synchronous water level	212.1 (09/23/98)	214.8 (03/26/99)	214.2 (09/21/99)	214.2 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	26.7		20.2		22						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<4.02	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	JU Q	<1	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	623	J	38.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2500	J	25		365	J	<100	U	< EQL	1	ug/L	EX
+	Sodium, total recoverable	6850		5160		4520		5000		> 4600	1	ug/L	EX
+	Sulfate	4990		11200		8040		10900		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	6.08	J	.34	UI	-.36	UIJ	.555	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	4.07	J	4.63		4.24	J	5.56		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.2		3.78	UIJ	.14	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 46C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103098.5 E 50548.7	33.33625 Deg N -81.7340 Deg W	247 - 237 ft msl	372.6 ft msl	2 " PVC	B	M

SAMPLE DATE 09/29/98

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	240.9	Not Available	Not Available	Not Available	ft msl
pH	5.1				pH
Sp. Conductance	49				uS/cm
Water temperature	20.6				deg. C
Alkalinity as CaCO ₃	4				mg/L
Turbidity	77				NTU
Volumes purged	4.69				well volume
Sampling code					
Synchronous water level	240.8 (09/23/98)	239.2 (03/26/99)	()	()	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.7										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	42.4	J									ug/L	
	Nickel, total recoverable	27.3	J									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<5	U									ug/L	
	1,1-Dichloroethane	<5	U									ug/L	
	1,1-Dichloroethylene	<5	U									ug/L	
	trans-1,2-Dichloroethylene	<5	U									ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U									ug/L	
	Tetrachloroethylene	<5	U									ug/L	
	1,1,1-Trichloroethane	<5	U									ug/L	
	Trichloroethylene	<5	U									ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable					936						ug/L	
	Nitrate-nitrite as nitrogen					2790						ug/L	
	Sodium, total recoverable					2140						ug/L	
	Sulfate					576						ug/L	
Radionuclides													
	Gross alpha					12.1						pCi/L	
	Nonvolatile beta					20.57						pCi/L	
	Radium, total alpha-emitting					1.82						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 47B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 106978.5 E 52207.2	33.34754 Deg N -81.7372 Deg W	171.5 - 165.9 ft msl	368.7 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/01/98	02/10/99	08/25/99	02/25/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	224.05	224.2	227.61	223.1	ft msl
pH	5.7	5.5	6.5	6.2	pH
Sp. Conductance	72	72	71	64	uS/cm
Water temperature	20.1	18.9	20.9	19	deg. C
Alkalinity as CaCO3	2	13	8	4	mg/L
Turbidity	2	.3	.5	.1	NTU
Volumes purged	5.58	2.26	2.65	2.51	well volume
Sampling code					
Synchronous water level	226.1 (09/23/98)	224.3 (03/26/99)	223.7 (09/20/99)	223.1 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	43.3		27		34						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<125	UJ	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<125	UJ	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<125	UJ	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<125	UJ	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	UJ	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
	Tetrachloroethylene	<125	UJ	<125	U	<1.56	U V	<5	U	< EQL	5	ug/L	ML
	1,1,1-Trichloroethane	<125	UJ	<125	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	2000	J	1150		1400		1180		> 5	5	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	63.3		60.7		<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4320		3830		3580		3510		> 2400	5	ug/L	EX
+	Sodium, total recoverable	6330		6160		6370		6800		> 4600	1	ug/L	EX
	Sulfate	183	J	<5000	U	356	J	183	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	3.56		3.33		7.98		4.07		< 15	1	pCi/L	GP
	Nonvolatile beta	4.1		6.04		10.24		5.62		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	2.2		10.2	J	1.57		2.2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106969.2 E 52195.5	33.34750 Deg N -81.7372 Deg W	202.6 - 197 ft msl	369 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/01/98	02/10/99	08/25/99	02/25/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.64	231.72	233.7	230.66	ft msl
pH	6.6	7.3	7.6	6.9	pH
Sp. Conductance	62	64	89	75	uS/cm
Water temperature	20.2	19	20.9	18.7	deg. C
Alkalinity as CaCO3	3	20	37	7	mg/L
Turbidity	.8	.3	.4	.7	NTU
Volumes purged	5.00	3.48	3.29	2.77	well volume
Sampling code					
Synchronous water level	231.1 (09/23/98)	231.9 (03/26/99)	231.6 (09/20/99)	230.7 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	34.3		41.1		40						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<9.54	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<125	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<125	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<125	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<125	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<125	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Tetrachloroethylene	<125	UJ	30.7	J I	14.9	J K	15		> 5	10	ug/L	ML
	1,1,1-Trichloroethane	<125	UJ	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Trichloroethylene	2930	J	2920		2710		2730		> 5	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<39.2	U	42.4		<200	U	98	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1960		1950		1500		1440		< 2400	5	ug/L	EX
+	Sodium, total recoverable	3800		3960		4430		5100		> 4600	1	ug/L	EX
	Sulfate	237	J	<5000	U	510		323	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	.67	UI	1.37	UI	1.3		1.13	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.48		-.6	UI	1.67		.739	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2		8.8	J	.6	U	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106960.1 E 52184	33.34746 Deg N -81.7372 Deg W	246.1 - 226.5 ft msl	368.8 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/20/98	02/09/99	03/08/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.5	232.88	Not Available	231.78	ft msl
pH	5.1	4.8		6	pH
Sp. Conductance	54	48		84	uS/cm
Water temperature	25	18.7		20.5	deg. C
Alkalinity as CaCO ₃	1	1		12	mg/L
Turbidity	1.2	1.5		8.5	NTU
Volumes purged	21.0	31.8		12.6	well volume
Sampling code					
Synchronous water level	232.1 (09/23/98)	233.1 (03/26/99)	233 (09/20/99)	231.9 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	28.3		29								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<10	U	<100	U							ug/L	
	Nickel, total recoverable	9.94	J	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U			<.61	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	1.52	J	1.73	J I			.85	J IK	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	29.4		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	5600		4320		3070						ug/L	
	Sodium, total recoverable	11400		8950		5830						ug/L	
	Sulfate	233	J	<5000	U	346	J					ug/L	
Radionuclides													
	Gross alpha	11.3		4.4	UI	18.46						pCi/L	
	Nonvolatile beta	6.04		3.1	UI	12.25						pCi/L	
	Radium, total alpha-emitting	4		3.87	J	8.38						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 47TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106987.7 E 52219	33.34758 Deg N -81.7372 Deg W	55.1 - 50.1 ft msl	368.7 ft msl	4" CS	S	CBA

SAMPLE DATE	09/02/98	08/26/99	02/25/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	214.45	<i>Not Available</i>	216.45	214.98	ft msl
pH			5.9	6.2	pH
Sp. Conductance			26	28	uS/cm
Water temperature			22.1	20.1	deg. C
Alkalinity as CaCO3			5	6	mg/L
Turbidity			133	240	NTU
Volumes purged	.009		3.31	2.67	well volume
Sampling code	NP				
Synchronous water level	213.5 (09/23/98)	215.6 (03/26/99)	215.1 (09/20/99)	214.7 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			<10	U	12						ug/L	
	Cyanide			<10	U	<10	U					ug/L	
	Lead, total recoverable			<100	U	<1.13	U V					ug/L	
	Nickel, total recoverable			<50	JU	<7.4	JU I					ug/L	
	Selenium, total recoverable			<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene			<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethane			<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethylene			<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	trans-1,2-Dichloroethylene			<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	Tetrachloroethylene			<25	U	1.77	J K	1.42	J I	NDD	2	ug/L	ML
	1,1,1-Trichloroethane			<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
+	Trichloroethylene			884		751		589		> 5	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	17.9	J			<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1510		1320				1170		< 2400	5	ug/L	EX
	Sodium, total recoverable	2040		2440				2100		< 4600	1	ug/L	EX
	Sulfate	129	J	<5000	U			1050		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.18		2.49				1.89	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	1.44	UI	1.12	UI			1.5	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3	UI	1.47	UI			.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 48A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107936.6 E 54099.8	33.35275 Deg N -81.7341 Deg W	129.4 - 124.7 ft msl	361.6 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	08/19/98	02/09/99	08/12/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	220.9	222.15	221.63	221.19	ft msl
pH	5.8	5.8	5.2	5.4	pH
Sp. Conductance	26	22	24	22	uS/cm
Water temperature	19.2	18.8	20.1	18	deg. C
Alkalinity as CaCO3	2	3	1	2	mg/L
Turbidity	5.5	6	2.1	3.7	NTU
Volumes purged	3.18	3.81	2.35	2.63	well volume
Sampling code					
Synchronous water level	221.3 (09/22/98)	222.1 (03/26/99)	221.6 (09/20/99)	221.1 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.4		11.4		12						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<12.5	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<4.6	JU I					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<6	U V	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<.67	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	28.9		243		<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1930		1850		1480		1470		< 2400	5	ug/L	EX
	Sodium, total recoverable	1300		1480		1690		1600		< 4600	1	ug/L	EX
+	Sulfate	<1000	U	<5000	U	<200	U	8110		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.815		.94		1.4	J	.352	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.29	UI	-1.06	UI			1.57	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.6		3.52	UIJ	.54		3.2		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 48B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107945 E 54112.2	33.35279 Deg N -81.7340 Deg W	158.3 - 153.6 ft msl	361.4 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/23/98	02/18/99	08/30/99	02/17/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	222.85	224	223.14	222.48	ft msl
pH	5.6	5.5	5.8	5.6	pH
Sp. Conductance	28	39	39	33	uS/cm
Water temperature	20.3	19.2	19.5	18.3	deg. C
Alkalinity as CaCO3	5	2	6	1	mg/L
Turbidity	2.9	.7	.8	.6	NTU
Volumes purged	5.34	2.48	2.48	2.57	well volume
Sampling code					
Synchronous water level	222.9 (09/22/98)	223.7 (03/26/99)	223 (09/20/99)	222.5 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	12.1		<10	U	14						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	23		18.4		15.5	J K	10.8	J	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	88.3		52.5		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1400	J	1130		339	J	2180		< 2400	5	ug/L	EX
	Sodium, total recoverable	1750		1720		2000		2000		< 4600	1	ug/L	EX
	Sulfate	156	J	<5000	U	331	J	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	1.35		.28	UI	2.57		1.67	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.38	UI	1.73	UI	4.11	J	2.08	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.4		1.18	UIJ	.7		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 48C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107917.5 E 54077	33.35267 Deg N -81.7341 Deg W	180.2 - 175.4 ft msl	362.3 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/19/98	02/09/99	08/16/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.85	224.15	223.64	223.2	ft msl
pH	6.2	5.4	6	5.4	pH
Sp. Conductance	38	35	34	31	uS/cm
Water temperature	19.7	20	19.9	18.1	deg. C
Alkalinity as CaCO3	7	3	7	5	mg/L
Turbidity	2.9	2.8	.7	.5	NTU
Volumes purged	2.97	3.20	3.74	2.88	well volume
Sampling code					
Synchronous water level	223.4 (09/22/98)	224.2 (03/26/99)	223.6 (09/20/99)	223 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	12		9.28	J I	8.9	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<1.03	U V					ug/L	
	Nickel, total recoverable	<14.6	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	110		76.8		74	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1750	J	1730		1370		1510		< 2400	5	ug/L	EX
	Sodium, total recoverable	2920		2500		2310		2200		< 4600	1	ug/L	EX
	Sulfate	902	J	<5000	U	<200	U	423		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.909		.6	UI	1.35	UIJ	.576	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.42		2.6				2.35	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2		1.14	UIJ	.58		.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 48D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107914.4 E 54056.3	33.35263 Deg N -81.7341 Deg W	243.5 - 222 ft msl	362.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/02/98	02/17/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.5	Not Available	Not Available	231.3	ft msl
pH				10.3	pH
Sp. Conductance				336	uS/cm
Water temperature				17.4	deg. C
Alkalinity as CaCO3				188	mg/L
Turbidity				609	NTU
Volumes purged				2.01	well volume
Sampling code	NP				
Synchronous water level	231.8 (09/22/98)	232.9 (03/26/99)	232.3 (09/20/99)	231.4 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable												
	Cyanide												
	Lead, total recoverable												
	Nickel, total recoverable												
	Selenium, total recoverable												
Organics													
	Chlorobenzene							<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane							<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene							<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene							<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane							<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene							<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane							<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene							<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable												
	Nitrate-nitrite as nitrogen												
	Sodium, total recoverable												
	Sulfate												
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 48TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107925.8 E 54089.2	33.35271 Deg N -81.7341 Deg W	107.8 - 102.5 ft msl	361.9 ft msl	4 " CS	S	CBA
SAMPLE DATE		08/19/98	02/09/99	08/12/99	01/31/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	219.87	222.1	221.49	221.21	ft msl	
pH	6.1	5.4	5.9	6	pH	
Sp. Conductance	32	30	29	27	uS/cm	
Water temperature	19.3	19.7	20.7	18.2	deg. C	
Alkalinity as CaCO ₃	6	5	4	6	mg/L	
Turbidity	6.9	3.2	3.7	2.9	NTU	
Volumes purged	2.22	2.66	2.61	2.44	well volume	
Sampling code						
Synchronous water level	221 (09/22/98)	222.1 (03/26/99)	221.5 (09/20/99)	221 (03/20/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.62	J	5.68	J I	6.4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<9.45	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<.43	U V	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	<20	U	130	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1740		1530		1160		1230		< 2400	5	ug/L	EX
	Sodium, total recoverable	2090		1670		1680		1700		< 4600	1	ug/L	EX
	Sulfate	315	J	<5000	U	<200	U	331		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.38		5.16	UI	.87	UIJ	.427	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.887	UI	4.52				1.37	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.5	UI	1.59	J	.78		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 49A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99759 E 45864.6	33.32122 Deg N -81.7398 Deg W	76.7 - 72 ft msl	334.7 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/02/98	02/09/99	09/01/99	03/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	196.54	197.7	197.09	196.33	ft msl
pH	6	5.3	6.1	7.2	pH
Sp. Conductance	55	50	45	79	uS/cm
Water temperature	21.4	19.4	19.5	17.6	deg. C
Alkalinity as CaCO3	14	11	12	26	mg/L
Turbidity	.7	1.5	.3	1.2	NTU
Volumes purged	2.35	2.48	2.54	2.38	well volume
Sampling code					
Synchronous water level	195.5 (09/25/98)	197.8 (03/26/99)	197 (09/21/99)	196.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	36.8		32.6		32						ug/L	
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<66	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	9.14		8.96	J Q	9.44	J K	10.8		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	118	J	71.4		40.3	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	840		604		882		544		< 2400	5	ug/L	EX
	Sodium, total recoverable	1970	J	1710		1880		1800		< 4600	1	ug/L	EX
+	Sulfate	3160		3550	J	3310		3040		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.22		1.35		2.55		1.74	U V	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.9		1.08	UI	107		1.41	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.6		6.72	UIJ	.9		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 49B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99737.8 E 45868.2	33.32118 Deg N -81.7398 Deg W	116.3 - 110.7 ft msl	334.1 ft msl	4 " PVC	S	LL
SAMPLE DATE		09/15/98	03/03/99	09/01/99	03/18/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	202.7	203.91	203.39	202.32	ft msl	
pH	5.8	5.8	5.8	6.4	pH	
Sp. Conductance	69	68	68	72	uS/cm	
Water temperature	19.8	18.1	19	17.6	deg. C	
Alkalinity as CaCO3	13	5	9	9	mg/L	
Turbidity	.3	.4	.4	.3	NTU	
Volumes purged	2.59	2.32	2.45	3.08	well volume	
Sampling code						
Synchronous water level	202.4 (09/25/98)	203.8 (03/26/99)	203.3 (09/21/99)	202.5 (03/21/00)	ft msl	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	24.7		24.3		26						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	49.2	J	60.5		68.2	J K	70		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	152	J	168		167	J K	146		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	40		22.6		<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4480		7090		4480		4460		> 2400	5	ug/L	EX
+	Sodium, total recoverable	4580		3990		4690		4800		> 4600	1	ug/L	EX
	Sulfate	1090		<5000	U	554		571		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	2.56		1.14	UI	3.98		2.79		< 15	1	pCi/L	GP
	Nonvolatile beta	7.34		3.47		5.85		4.1		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.2		4.58	UIJ	1.34		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 49D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 99724.9 E 45856.4	33.32113 Deg N -81.7398 Deg W	236.4 - 216.7 ft msl	334.3 ft msl	4 " PVC	S	M

SAMPLE DATE	08/20/98	02/09/99	08/16/99	02/14/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	230.04	230.53	229.1	227.94	ft msl
pH	5.4	5.7	5.1	4.8	pH
Sp. Conductance	24	26	22	21	uS/cm
Water temperature	20.4	18.4	21.7	19.1	deg. C
Alkalinity as CaCO3	1	1	1	0	mg/L
Turbidity	1.3	2.8	1.4	1.2	NTU
Volumes purged	2.53	2.44	2.23	.137	well volume
Sampling code				NX	
Synchronous water level	230.7 (09/25/98)	230.3 (03/26/99)	229 (09/21/99)	228.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLPEPA	1Q99	CLPEPA	3Q99	CLPEPA	1Q00	CLPEPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	8.91	J	11.4		11						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<5.02	U V					ug/L	
	Nickel, total recoverable	9.16	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLPEPA	3Q97	CLPEPA	3Q98	CLPEPA	3Q99	CLPEPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	41.2		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1060		862		716		838		< 2400	5	ug/L	EX
	Sodium, total recoverable	1230		1290		2340		1700		< 4600	1	ug/L	EX
	Sulfate	200	J	<5000	U	354	J	192	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	3.47		1.79		8.06		3.55		< 15	1	pCi/L	GP
	Nonvolatile beta	1.47	UI	.78	UI	5.88		2.54		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.7		4.56	UIJ	1.18		1.6		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 51B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 96992.7 E 52818	33.32646 Deg N -81.7162 Deg W	160 - 154.4 ft msl	263.2 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/07/98	02/09/99	08/16/99	02/14/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	205.1	205.65	204.37	204.55	ft msl
pH	5.7	5.3	5.9	5.7	pH
Sp. Conductance	14	23	29	25	uS/cm
Water temperature	18.2	17.6	19.2	18	deg. C
Alkalinity as CaCO3	1	7	8	5	mg/L
Turbidity	.6	.3	.2	.4	NTU
Volumes purged	5.21	2.77	3.97	2.89	well volume
Sampling code					
Synchronous water level	204.4 (09/21/98)	205.3 (03/29/99)	204.4 (09/22/99)	204.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	19.6		18.8		17						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.52	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	26.3		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	840		353		<200	U	270	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1490		1380		1100		1500		< 4600	1	ug/L	EX
	Sulfate	266	J	<5000	U	<400	U	334		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.26	J	-.08	UI	1.45		.742	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.02		-.01	UI	6.94	J	2.71		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.7		7.17	J	.51		.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 52B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103077.7 E 53418.4	33.34089 Deg N -81.7264 Deg W	171.4 - 165.8 ft msl	321.7 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/07/98 02/09/99 08/16/99 02/14/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	217.9	219.3	218.3	218.4	ft msl
pH	5.7	5.3	6	5.6	pH
Sp. Conductance	20	32	36	34	uS/cm
Water temperature	18.6	19.2	19.9	18.7	deg. C
Alkalinity as CaCO3	1	6	8	4	mg/L
Turbidity	2.2	.3	.8	.8	NTU
Volumes purged	4.38	2.26	2.48	2.68	well volume
Sampling code					
Synchronous water level	218.4 (09/22/98)	219.2 (03/26/99)	218.2 (09/22/99)	218.4 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.96	J	9.84	J I	7.3	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<1.18	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	3.26	J	<5	JU Q	2.67	J K	2.57	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	2.15	J	1.51	J IQ	1.82	J K	1.77	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	113		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1080		896		610		574		< 2400	5	ug/L	EX
	Sodium, total recoverable	2220		2230		2240		2500		< 4600	1	ug/L	EX
	Sulfate	230	J	<5000	U	<400	U	217		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.69		1.74		1.48		.716	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.757	UI	7.8		2.16	UI	3.68		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	1.97	UIJ	.37		.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 53B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 106443.6 E 54574.3	33.35022 Deg N -81.7299 Deg W	152.3 - 147.6 ft msl	344.3 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/07/98	02/09/99	08/19/99	02/15/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	220.5	221.95	221.34	220.61	ft msl
pH	5.4	4.8	5.2	5.3	pH
Sp. Conductance	12	13	15	16	uS/cm
Water temperature	18.5	18.8	18.7	17.2	deg. C
Alkalinity as CaCO3	1	1	1	1	mg/L
Turbidity	.5	.2	.5	.7	NTU
Volumes purged	3.38	2.51	2.97	2.79	well volume
Sampling code					
Synchronous water level	221.1 (09/22/98)	221.8 (03/26/99)	221.3 (09/22/99)	220.6 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	2.88	J	5.11	J I	4.3	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.45	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	U	13.4	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	920		153		<200	U	202	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1900		1550		1100		1700		< 4600	1	ug/L	EX
	Sulfate	168	J	<5000	U	<400	U	1350		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.991		.43	UI	1.47		.883	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.78		4.42		1.31	UIJ	.737	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		1.28	UIJ	.51		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 53C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106456.2 E 54540.5	33.35019 Deg N -81.7300 Deg W	192.6 - 187.8 ft msl	345.2 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/07/98	02/09/99	08/19/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.2	222.6	222.07	221.27	ft msl
pH	5.3	4.9	5.1	5.3	pH
Sp. Conductance	16	21	24	24	uS/cm
Water temperature	18.8	18.8	18.7	17.7	deg. C
Alkalinity as CaCO ₃		1	1	3	mg/L
Turbidity	.8	.3	.7	.7	NTU
Volumes purged	4.30	3.78	3.03	3.24	well volume
Sampling code					
Synchronous water level	222 (09/22/98)	222.5 (03/26/99)	222 (09/22/99)	221.3 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.05	J	7.19	J I	6.6	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<3.71	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	JU Q	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	26.7		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	240		1610		1120		1170		< 2400	5	ug/L	EX
	Sodium, total recoverable	1490		2440		2310		2700		< 4600	1	ug/L	EX
	Sulfate	182	J	<5000	U	<400	U	224		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.724	UI	.26	UI	2.87		1.35	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.35	UI	.28	UI	2.88	J	1.39	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		1.44	UIJ	.49		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 54B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 108446.8 E 52970.5	33.35203 Deg N -81.7380 Deg W	136.4 - 130.8 ft msl	373.4 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	08/20/98	02/23/99	08/12/99	01/31/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	220.62	221.78	221.32	220.97	ft msl
pH	4.9	5.7	5.5	4.8	pH
Sp. Conductance	27	22	21	20	uS/cm
Water temperature	19.7	19	20.1	18.4	deg. C
Alkalinity as CaCO3	5	3	1	0	mg/L
Turbidity	.5	1	.5	.8	NTU
Volumes purged	2.55	2.48	4.06	2.13	well volume
Sampling code					
Synchronous water level	220.7 (09/22/98)	220.8 (03/26/99)	221.3 (09/20/99)	220.9 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	6.9	J	4.3		4.8	J I					ug/L	
	Cyanide	<10	U	19.8		<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	7.38	J	2.7	J I	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<.7	U V	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<.97	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	66.3	J	8.3	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	970		1070		904		906		< 2400	5	ug/L	EX
	Sodium, total recoverable	1560		1550		<1670	U	1800		< 4600	1	ug/L	EX
	Sulfate	274	J	<5000	U	276	J	340		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.8	J	-.09	UI	2.46		.62	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	.691	UI	.28	UI	2.38		1.99	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.7		2.15	UIJ	.21	UI	.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 54C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 108447.4 E 52955.7	33.35201 Deg N -81.7381 Deg W	175.6 - 170 ft msl	373.4 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/24/98	02/11/99	08/12/99	01/31/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	225.4	226.3	225.89	225.3	ft msl
pH	9.7	10.1	9.4	9.7	pH
Sp. Conductance	130	140	79	117	uS/cm
Water temperature	20.6	20.3	21.1	18.5	deg. C
Alkalinity as CaCO3	45	56	33	38	mg/L
Turbidity	1.6	.1	2.7	1	NTU
Volumes purged	3.23	2.55	2.95	2.49	well volume
Sampling code					
Synchronous water level	225.9 (09/22/98)	226.4 (03/26/99)	225.8 (09/20/99)	225.2 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Flit.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	50.3		<10	U	34						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<.69	U V	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<.77	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Flit.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	360		208		<200	U	140	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1820		1280		1110		1210		< 2400	5	ug/L	EX
	Sodium, total recoverable	2600		2100		2130		2000		< 4600	1	ug/L	EX
	Sulfate	417	J	<5000	U	425		319		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	3.68		2.73		2.55	J	.857	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	2.41		.85	UI	2.93		1.64	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.2		3.45	UIJ	.83		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 54D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 108461.5 E 52984.5	33.35209 Deg N -81.7380 Deg W	244.8 - 223.8 ft msl	373.6 ft msl	4 " PVC	S	GC

SAMPLE DATE	08/18/98	02/11/99	08/12/99	01/31/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	231.26	232.82	232.81	231.98	ft msl
pH	7.4	4.1	5.1	7.7	pH
Sp. Conductance	20	20	19	21	uS/cm
Water temperature	20.6	19.3	19.5	18.4	deg. C
Alkalinity as CaCO ₃	1		0	4	mg/L
Turbidity	3.2	1.3	1.4	.8	NTU
Volumes purged	6.93	6.39	11.2	6.88	well volume
Sampling code					
Synchronous water level	231.8 (09/22/98)	233.1 (03/26/99)	232.7 (09/20/99)	231.8 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	5.09	J	<10	U	4.1	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	15.2		<100	U	4.8	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<3.7	JU I					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<.62	U V	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	79.4	J	12.4	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1730		1820		1250		1470		< 2400	5	ug/L	EX
	Sodium, total recoverable	1390		1740		2190		1900		< 4600	1	ug/L	EX
	Sulfate	556	J	<5000	U	<200	U	594		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	3.06	J	.39	UI	6.97		1.35	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	2.06		.26	UI	10	J	1.37	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.4		7.97	UIJ	1.87		.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 54TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108446.3 E 52985.8	33.35206 Deg N -81.7380 Deg W	80.9 - 75.3 ft msl	373.5 ft msl	4 " CS	S	CBA

<u>SAMPLE DATE</u>	08/20/98	02/11/99	08/12/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.06	219.34	218.73	218.5	ft msl
pH	5.4	8	6.1	8.4	pH
Sp. Conductance	31	22	26	28	uS/cm
Water temperature	19.8	19.9	20.6	18.8	deg. C
Alkalinity as CaCO3	6	6	5	12	mg/L
Turbidity	.4	.2	.9	.8	NTU
Volumes purged	2.44	2.84	2.68	2.41	well volume
Sampling code					
Synchronous water level	218.5 (09/22/98)	219.3 (03/26/99)	218.7 (09/20/99)	218.4 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.16	J	<10	U	8.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	8.16	J	<50	U	<8.8	JU I					ug/L	
	Selenium, total recoverable	<10	U			<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<.83	U V	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1.18	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	127	J	20.5		<200	U	120	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1180		1000		885		894		< 2400	5	ug/L	EX
	Sodium, total recoverable	1620		1520		<1320	U	1600		< 4600	1	ug/L	EX
	Sulfate	322	J	<5000	U	237	J	234		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.464	UIJ	.98	UI	1.67		1.01	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	.953	UI	.67	UI	.71	UI	1.11	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.7		6.03	UIJ	.27	UI	.6	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 55B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108342.4 E 52006.2	33.35023 Deg N -81.7404 Deg W	152.7 - 148 ft msl	368.7 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	08/18/98	02/10/99	08/25/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	220.22	221.58	221.03	220.75	ft msl
pH	3.5	3.2	4	4.3	pH
Sp. Conductance	68	65	64	65	uS/cm
Water temperature	20.7	19	19.9	18.1	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	.7	.2	.9	1.2	NTU
Volumes purged	2.41	2.72	2.57	3.61	well volume
Sampling code					
Synchronous water level	220.5 (09/22/98)	221.5 (03/26/99)	220.9 (09/20/99)	220.5 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.62	J	8.31	J I	9.3	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	12.6	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	392	J	375		443		510		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	230		13		<500	U	<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	1690		1730		<2030	U	2100		< 4600	1	ug/L	EX
+	Sulfate	10600		11100		13100		10800		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	4.22		8.34		3.65		1.75	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	5.1		13.2		4.12	J	3.62		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	6.9		8.32	UIJ	1.05		.6	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 55C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108324.6 E 52029.7	33.35022 Deg N -81.7403 Deg W	189.3 - 184.6 ft msl	369.4 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/18/98	02/10/99	08/13/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.02	228.96	228.69	228.15	ft msl
pH	4.5	4.1	5.2	5.6	pH
Sp. Conductance	29	27	25	24	uS/cm
Water temperature	20.6	18.8	20.6	17	deg. C
Alkalinity as CaCO3	1		2	3	mg/L
Turbidity	.3	.2	1.6	1.2	NTU
Volumes purged	4.41	3.45	3.16	4.22	well volume
Sampling code					
Synchronous water level	228.6 (09/22/98)	229 (03/26/99)	228.6 (09/20/99)	227.9 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.5		4.86	J I	4.8	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.65	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<10	JU I					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<21.8	UU	16.2	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1470		1480		1110		1290		< 2400	5	ug/L	EX
	Sodium, total recoverable	2590		2490		2640		2700		< 4600	1	ug/L	EX
	Sulfate	443	J	<5000	U	<200	U	462		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.952	UI	1.28		1.73		.869	JU L	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.9		2.32		1.35	UIJ	1.01	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.5		7.64	UIJ	.47		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 55D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108391.4 E 52032.5	33.35038 Deg N -81.7404 Deg W	245.9 - 224.7 ft msl	367.7 ft msl	4 " PVC	S	GC

<u>SAMPLE DATE</u>	08/18/98	02/10/99	08/13/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	232.82	232.93	232.98	232.99	ft msl
pH	4.3	4	4.8	5.2	pH
Sp. Conductance	32	33	26	24	uS/cm
Water temperature	21.7	19.1	20.4	17.9	deg. C
Alkalinity as CaCO3			0	3	mg/L
Turbidity	.6	.7	2.2	2.1	NTU
Volumes purged	7.89	4.94	4.91	9.80	well volume
Sampling code					
Synchronous water level	232.8 (09/22/98)	232.9 (03/26/99)	232.9 (09/20/99)	233 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.28	J	8.4	J I	8.4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	16.6		<100	U	16.4						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<50.8	U	6.9	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1810		1920		1640		1840		< 2400	5	ug/L	EX
	Sodium, total recoverable	1600		1680		2800		1900		< 4600	1	ug/L	EX
	Sulfate	179	J	<5000	U	<200	U	192	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	6.19		3.45		7.87		3.34	J L	NDD	1	pCi/L	GP
	Nonvolatile beta	3.06		1.8	UI	2.77	J	1.79	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	3.8		9.53	J	2.57		2.5		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 55HC

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108338.7 E 52020.1	33.35024 Deg N -81.7403 Deg W	218.8 - 214.1 ft msl	368.7 ft msl	4" PVC	S	UL

<u>SAMPLE DATE</u>	09/01/98	02/11/99	08/26/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	232.33	232.4	232.5	235.74	ft msl
pH	8.9	10.3	8.5	8.6	pH
Sp. Conductance	110	390	75	71	uS/cm
Water temperature	23.1	17.6	24.9	22.2	deg. C
Alkalinity as CaCO3	29	53	28	30	mg/L
Turbidity	251	12	52.9	44	NTU
Volumes purged	.423	.084	0		well volume
Sampling code	NTX	X	NX	NX	
Synchronous water level	231.6 (09/22/98)	232.6 (03/26/99)	232.3 (09/20/99)	231.5 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			<10	U	160						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable			<100	U	<2.08	U V					ug/L	
	Nickel, total recoverable			<50	U	<50	U					ug/L	
	Selenium, total recoverable					<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	389	J					660		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1850		2130		1690		1500		< 2400	5	ug/L	EX
+	Sodium, total recoverable	7940						5400		> 4600	1	ug/L	EX
	Sulfate	1560		<5000	U	887		461		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	2.52		14.2		15.13		2.43	J K	NDD	1	pCi/L	GP
	Nonvolatile beta	4.81		8.34		7.83		1.65	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.6		3.76	J	1.67		.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 55TA**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108322.8 E 52014.7	33.35020 Deg N -81.7403 Deg W	91.6 - 86.2 ft msl	368.7 ft msl	4 " CS	S	CBA

<u>SAMPLE DATE</u>	08/18/98	02/10/99	08/25/99	02/04/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	212.5	214.12	213.4	213.35	ft msl
pH	4.7	4.4	5.2	5.5	pH
Sp. Conductance	23	21	21	21	uS/cm
Water temperature	21.1	19.2	20.1	18.6	deg. C
Alkalinity as CaCO3	2	2	1	5	mg/L
Turbidity	1.7	.5	1	1.7	NTU
Volumes purged	2.77	2.33	2.56	2.19	well volume
Sampling code					
Synchronous water level	211 (09/22/98)	213.8 (03/26/99)	213.4 (09/20/99)	213 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable			3.98	J I	3.6	J I					ug/L	
	Cyanide			<10	U	<10	U					ug/L	
	Lead, total recoverable			<100	U	<10	U					ug/L	
	Nickel, total recoverable			<50	U	<50	U					ug/L	
	Selenium, total recoverable			<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene			<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<44.6	U	21.7				<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	740		506				459	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1380		1410				1500		< 4600	1	ug/L	EX
	Sulfate	1850		<5000	U			1580		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.797		.17	UI			.582	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.673	UI	-.69	UI			.807	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		1.04	UIJ			.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 64B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101831 E 46579.7	33.32697 Deg N -81.7420 Deg W	124.3 - 119.6 ft msl	348.3 ft msl	4 " PVC	S	LL

SAMPLE DATE 09/22/98

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	207.63	Not Available	Not Available	Not Available	ft msl
pH	6				pH
Sp. Conductance	79				uS/cm
Water temperature	20				deg. C
Alkalinity as CaCO ₃	9				mg/L
Turbidity	.7				NTU
Volumes purged	2.20				well volume
Sampling code					
Synchronous water level	()	208.4 (03/29/99)	207.5 (09/21/99)	206.7 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	50.4										ug/L	
	Cyanide	<10	U									ug/L	
	Lead, total recoverable	<100	U									ug/L	
	Nickel, total recoverable	<50	U									ug/L	
	Selenium, total recoverable	<200	U									ug/L	
Organics													
	Chlorobenzene	<125	U									ug/L	
	1,1-Dichloroethane	<125	U									ug/L	
	1,1-Dichloroethylene	<125	U									ug/L	
	trans-1,2-Dichloroethylene	<125	U									ug/L	
	PCB 1016	<2	U									ug/L	
	PCB 1221	<2	U									ug/L	
	PCB 1232	<1	U									ug/L	
	PCB 1242	<1	U									ug/L	
	PCB 1248	<1	U									ug/L	
	PCB 1254	<1	U									ug/L	
	PCB 1260	<1	U									ug/L	
	1,1,2,2-Tetrachloroethane	<125	U									ug/L	
	Tetrachloroethylene	87.2	J									ug/L	
	1,1,1-Trichloroethane	<125	U									ug/L	
	Trichloroethylene	3680										ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			43.1		<200	U					ug/L	
	Nitrate-nitrite as nitrogen			4410								ug/L	
	Sodium, total recoverable			4060		4070						ug/L	
	Sulfate			<5000	U							ug/L	
Radionuclides													
	Gross alpha			.51	UI							pCi/L	
	Nonvolatile beta			.82	UI							pCi/L	
	Radium, total alpha-emitting			3.69	J							pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 65D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 101915.5 E 49413.7	33.33178 Deg N -81.7347 Deg W	243.9 - 224.4 ft msl	349.2 ft msl	4 " PVC	S	M

SAMPLE DATE	09/16/98	03/10/99	03/10/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	232.88	232.92	Not Available	230.29	ft msl
pH	4.7	4.5		5.2	pH
Sp. Conductance	23	29		23	uS/cm
Water temperature	21.3	19.2		19.9	deg. C
Alkalinity as CaCO3				0	mg/L
Turbidity	.9	.2		.4	NTU
Volumes purged	5.78	7.05		6.54	well volume
Sampling code					
Synchronous water level	232.9 (09/21/98)	232.7 (03/29/99)	231.8 (09/21/99)	230.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab	
Inorganics														
	Barium, total recoverable	9.63	J	8.37	J	I						ug/L		
	Cyanide	<10	U	<10	JU	L						ug/L		
	Lead, total recoverable	<100	U	<100	U							ug/L		
	Nickel, total recoverable	<50	U	<7.01	JU							ug/L		
	Selenium, total recoverable	<200	U	<200	U							ug/L		
Organics														
	Chlorobenzene	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML	
	1,1-Dichloroethane	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML	
	1,1-Dichloroethylene	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML	
	trans-1,2-Dichloroethylene	<5	U	<5	U							ug/L		
	PCB 1016													
	PCB 1221													
	PCB 1232													
	PCB 1242													
	PCB 1248													
	PCB 1254													
	PCB 1260													
	1,1,2,2-Tetrachloroethane	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML	
	Tetrachloroethylene	12.4		6.99				16.9	J	K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U			<1	U	< EQL	1	ug/L	ML	
	Trichloroethylene	5.85		4.53	J	I		9.32	J	K	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	59.4		40.8		108	J					ug/L	
	Nitrate-nitrite as nitrogen	1550		1300		1090						ug/L	
	Sodium, total recoverable	1860		1920		1860						ug/L	
	Sulfate	975	J	<5000	U	726						ug/L	
Radionuclides													
	Gross alpha	1.72		1.77		4.64						pCi/L	
	Nonvolatile beta	2.05		1.74	UI	2.18	J					pCi/L	
	Radium, total alpha-emitting	.7	J	1.81	UI	1.17						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842 E 51064.6	33.34316 Deg N -81.7380 Deg W	143.9 - 139.2 ft msl	383.4 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/04/98	03/16/99	08/30/99	03/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	217.2	219.08	217.75	217.68	ft msl
pH	7.1	8	8.3	7.2	pH
Sp. Conductance	52	58	67	58	uS/cm
Water temperature	20.9	21.6	20.5	20.2	deg. C
Alkalinity as CaCO3	12	24	28	19	mg/L
Turbidity	.9	.2	.7	1.7	NTU
Volumes purged	4.36	2.95	2.61	2.44	well volume
Sampling code					
Synchronous water level	216.8 (09/23/98)	218.7 (03/26/99)	217.7 (09/22/99)	217.3 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	18.1		21.6		23						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<25	U	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
+	Tetrachloroethylene	7.26	J	<25	U	9.33	J K	11.8		> 5	2	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<1	U	<2	U	< EQL	2	ug/L	ML
+	Trichloroethylene	292		287		383	J K	559		> 5	2	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	79.2		61		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1690		1870		1440		1570		< 2400	5	ug/L	EX
	Sodium, total recoverable	2110		2000		2130		2630		< 4600	1	ug/L	EX
	Sulfate	170	J	<5000	U	225	J	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	.754		1.84	UI	1.88	J	.35	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.76		1.15	UI	5.69		1.17	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	~.1	UIJ	5.15	J	.89		.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842.1 E 51053.5	33.34314 Deg N -81.7380 Deg W	170.9 - 166.2 ft msl	383.4 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/04/98	03/16/99	08/30/99	03/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	226.4	227.86	227.24	226.89	ft msl
pH	5.3	4.9	5	5.5	pH
Sp. Conductance	34	34	35	0	uS/cm
Water temperature	20.7	22.2	21	20.4	deg. C
Alkalinity as CaCO3	1	0	0	1	mg/L
Turbidity	.4	.2	.1	.8	NTU
Volumes purged	5.52	2.83	3.51	2.40	well volume
Sampling code					
Synchronous water level	227 (09/23/98)	227.9 (03/26/99)	227.3 (09/22/99)	226.8 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.98	J	9.05	J I	8.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<12.3	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	26.3		20.8	J I	22.6	J K	15.5		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	377	J	343		345	J K	325		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U			<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	2380				2220		2470		> 2400	5	ug/L	EX
	Sodium, total recoverable	2530				2810		3240		< 4600	1	ug/L	EX
	Sulfate	171	J			251	J	259	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.61				6.78	J	2.18	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	3.29				7.81		2.93	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.7	J			.41		1.8	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105841.8 E 51044	33.34313 Deg N -81.7380 Deg W	239.5 - 220 ft msl	383.2 ft msl	4 " PVC		M

SAMPLE DATE

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged					well volume
Sampling code					
Synchronous water level	267.1 (09/23/98)	231 (03/26/99)	230.5 (09/22/99)	267.2 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.
+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 66TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105842.6 E 51096.7	33.34321 Deg N -81.7379 Deg W	35.5 - 30.8 ft msl	382.7 ft msl	4 " PVC	S	CBA

<u>SAMPLE DATE</u>	09/04/98	03/16/99	08/30/99	03/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	204.5	204.55	204.51	205.29	ft msl
pH	5.3	4.9	4.8	5.6	pH
Sp. Conductance	18	21	21	21	uS/cm
Water temperature	20.5	19.9	20	19.7	deg. C
Alkalinity as CaCO ₃	1		0	2	mg/L
Turbidity	.7	.2	.4	.3	NTU
Volumes purged	2.70	2.29	2.32	2.28	well volume
Sampling code					
Synchronous water level	197 (09/23/98)	204.3 (03/26/99)	204.4 (09/22/99)	204.2 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.01	J	3.38	J I	2.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<9.05	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	7.05	J	6.2		6.8	J K	6.74	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	5.16	J	5.01		5.26	J K	5.56	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	43.8	J	57.7		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1010		782		682		695		< 2400	5	ug/L	EX
	Sodium, total recoverable	1480	J	1450		1510		1560		< 4600	1	ug/L	EX
	Sulfate	1500		<5000	U	1300		1380		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.743		1.02	UI	1.15	J	.189	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.398	UI	-.38	UI	.67	UI	.576	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		6.54	J	1.08		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 67D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106830.7 E 51971.5	33.34683 Deg N -81.7375 Deg W	241 - 221.5 ft msl	365 ft msl	4 " PVC	S	M
SAMPLE DATE		09/04/98	03/16/99			
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	231.35	232.55	Not Available	Not Available	ft msl	
pH	5.8	5.6			pH	
Sp. Conductance	48	57			uS/cm	
Water temperature	22.4	20.6			deg. C	
Alkalinity as CaCO ₃	3	8			mg/L	
Turbidity	.8	.1			NTU	
Volumes purged	6.10	3.21			well volume	
Sampling code						
Synchronous water level	231.8 (09/23/98)	()	233 (09/20/99)	()	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	33.4		35.3								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U							ug/L	
	Nickel, total recoverable	<12.7	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<50	U	<125	U							ug/L	
	1,1-Dichloroethane	<50	U	<125	U							ug/L	
	1,1-Dichloroethylene	<50	U	<125	U							ug/L	
	trans-1,2-Dichloroethylene	<50	U	<125	U							ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<125	U							ug/L	
	Tetrachloroethylene	<50	U	<125	U							ug/L	
	1,1,1-Trichloroethane	<50	U	<125	U							ug/L	
	Trichloroethylene	1370	J	3030								ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	18.8	J	26.6		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	2200		1950		2960						ug/L	
	Sodium, total recoverable	2060		3400		3710						ug/L	
	Sulfate	230	J	<5000	U	269	J					ug/L	
Radionuclides													
	Gross alpha	1.28		1.05	UI	5.83	J					pCi/L	
	Nonvolatile beta	1.45		-.35	UI	8.27						pCi/L	
	Radium, total alpha-emitting	.4	J	5.91	UIJ	1.08	UI					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 68B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 106744.9 E 52308.5	33.34719 Deg N -81.7365 Deg W	133 - 128.3 ft msl	356.9 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/04/98	03/16/99	03/29/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	216.85	218.38	Not Available	216.82	ft msl
pH	5.2	4.9		5.7	pH
Sp. Conductance	22	25		25	uS/cm
Water temperature	20.3	18.8		18.6	deg. C
Alkalinity as CaCO3	1			2	mg/L
Turbidity	1.7	.2		1.1	NTU
Volumes purged	3.47	2.55		3.51	well volume
Sampling code					
Synchronous water level	217.3 (09/23/98)	()	217.6 (09/20/99)	217.2 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Flt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	4.28	J	5.07	J							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<25	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U			<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U			<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	29		18.1	J			13.3		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U			<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	346		205				211		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Flt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	14.9	J	32.4		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	1620		1600		1310						ug/L	
	Sodium, total recoverable	2030		2020		2040						ug/L	
	Sulfate	280	J	<5000	U	334	J					ug/L	
Radionuclides													
	Gross alpha	.972		1.27		2.14	J					pCi/L	
	Nonvolatile beta	1.65		-.26	UI	4.23						pCi/L	
	Radium, total alpha-emitting	.2	UIJ	3.13	UIJ	.21	UI					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 68C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106730.5 E 52304.9	33.34715 Deg N -81.7364 Deg W	171.7 - 167 ft msl	356.7 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/04/98	03/16/99	08/30/99	02/22/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.6	223.88	223.55	222.68	ft msl
pH	5.1	4.9	4.7	4.4	pH
Sp. Conductance	26	29	28	29	uS/cm
Water temperature	20.3	19	19.8	18.9	deg. C
Alkalinity as CaCO3	1		0	0	mg/L
Turbidity	.5	.2	.7	.2	NTU
Volumes purged	3.68	3.22	5.71	3.15	well volume
Sampling code					
Synchronous water level	226.2 (09/23/98)	()	223.4 (09/20/99)	222.9 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.51	J	6.4	J I	5.4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Tetrachloroethylene	<50	U	<50	U	6.13	J K	8.6		> 5	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<1	U	<5	U	< EQL	5	ug/L	ML
+	Trichloroethylene	702	J	724		835		1070		> 5	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	30.7		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2000		1090		1780		1660		< 2400	5	ug/L	EX
	Sodium, total recoverable	2230		2240		2390		2820		< 4600	1	ug/L	EX
	Sulfate	175	J	<5000	U	2480		263	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.23		1.51		4.71	J	1.49	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.98		1.1	UI	15.4		3.22		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UIJ	2.82	UIJ	1.07		.8	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 69B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107776.1 E 52432.9	33.34967 Deg N -81.7381 Deg W	144.5 - 139.8 ft msl	381.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/09/98	02/10/99	08/18/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	219.2	220.21	219.78	219.34	ft msl
pH	5.9	5.1	6.2	5.4	pH
Sp. Conductance	30	26	37	36	uS/cm
Water temperature	19.2	19.3	19.8	18.2	deg. C
Alkalinity as CaCO3	2	3	12	7	mg/L
Turbidity	.2	.2	.5	.5	NTU
Volumes purged	2.58	2.55	2.35	2.57	well volume
Sampling code					
Synchronous water level	219.4 (09/22/98)	220.2 (03/26/99)	219.7 (09/20/99)	219.2 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14.6		5.04	J I	7.6	J I					ug/L	
	Cyanide	<15.2	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	.59	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<9.3	JU I					ug/L	
	Selenium, total recoverable	<200	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	22		39.5	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	820		768		563		550		< 2400	5	ug/L	EX
	Sodium, total recoverable	1550		1530		1980		2000		< 4600	1	ug/L	EX
	Sulfate	1160		<5000	U	1500		1290		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.53	J	.25	UI	1.44		1.14	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.26		-1.07	UI	1.71		2.07	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		3.18	UIJ	.7		.4	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 69C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107780.1 E 52447.5	33.34970 Deg N -81.7381 Deg W	175.7 - 171 ft msl	381.6 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/01/98	02/10/99	08/25/99	03/03/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	227.05	226.8	226.6	225.78	ft msl
pH	5.7	5.5	5.5	5.4	pH
Sp. Conductance	38	40	37	35	uS/cm
Water temperature	20.7	18.9	20.7	18.8	deg. C
Alkalinity as CaCO3	3	3	2	2	mg/L
Turbidity	.9	.5	.2	.3	NTU
Volumes purged	3.47	2.01	2.87	2.71	well volume
Sampling code					
Synchronous water level	227 (09/22/98)	226.9 (03/26/99)	226.5 (09/20/99)	225.9 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	8.33	J	9.29	J I	9.9	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<3.6	JU I					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<.58	U V	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	37.5	J	49.4		45.1	J K	39		> 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	UJ	21.8		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2260	J	2940		2050		2380		< 2400	5	ug/L	EX
	Sodium, total recoverable	3760		3220		3640		4000		< 4600	1	ug/L	EX
	Sulfate			<5000	U	309	J	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	1.41		-23	UI	3.54		.228	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.07		-1.79	UI	4.2		1.45	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.6	J	3.77	UIJ	1.01	U	.8	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 69D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107784.3 E 52462	33.34974 Deg N -81.7381 Deg W	239.8 - 220.3 ft msl	382 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/20/98	02/10/99	08/18/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.2	232.83	232.96	231.98	ft msl
pH	4.9	4.1	4.7	4.5	pH
Sp. Conductance	30	26	27	26	uS/cm
Water temperature	19.7	19.6	20.9	18.2	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	2.3	1	2.6	2.1	NTU
Volumes purged	4.56	3.71	2.81	2.39	well volume
Sampling code					
Synchronous water level	231.9 (09/22/98)	233 (03/26/99)	232.8 (09/20/99)	231.8 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.04	J	7.08	J I	7.4	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	1.3	J I					ug/L	
	Nickel, total recoverable	8.31	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	146	J	70.7		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2360		2490		1990		1820		< 2400	1	ug/L	EX
	Sodium, total recoverable	1090		1130		<1320	U	1200		< 4600	1	ug/L	EX
	Sulfate	<1000	U	<5000	UJ	<400	U	273		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	11.3	J	2.2		23.25		8.2		< 15	1	pCi/L	GP
	Nonvolatile beta	4.9		-57	UI	14.24		4		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	6.3		.37	UIJ	4.44		4.2	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 69TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107772.5 E 52418.4	33.34964 Deg N -81.7382 Deg W	80.3 - 74.6 ft msl	381.4 ft msl	4 " PVC	S	CBA

SAMPLE DATE	08/20/98	02/10/99	08/18/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	213.2	215.05	214.68	214.3	ft msl
pH	6.8	5.1	6	5.8	pH
Sp. Conductance	32	27	28	28	uS/cm
Water temperature	19.5	19.7	19.6	18.1	deg. C
Alkalinity as CaCO3	5	5	6	9	mg/L
Turbidity	3.8	1.9	4	2.6	NTU
Volumes purged	2.58	2.39	2.22	2.20	well volume
Sampling code					
Synchronous water level	212.3 (09/22/98)	214.8 (03/26/99)	214.5 (09/20/99)	214 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.5		9.38	J I	10						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	9.87	J	<50	U	<9.9	JU I					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	26.6		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	940		1150		975		1040		< 2400	5	ug/L	EX
	Sodium, total recoverable	2540		2110		1970		2200		< 4600	1	ug/L	EX
	Sulfate	451	J	<5000	U	399	J	375		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.627	UIJ	1.69	UI	1.04		.0449	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.69		1.99		.93	UI	-.043	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	3.55	J	.3	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 70C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101785.2 E 45012	33.32431 Deg N -81.7460 Deg W	178.8 - 174.1 ft msl	361.8 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/17/98	03/03/99	09/28/99	03/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	215.6	217.85	217.64	216.69	ft msl
pH	5.6	5.6	5.7	5.8	pH
Sp. Conductance	180	160	149	148	uS/cm
Water temperature	19	18.2	19.6	19.3	deg. C
Alkalinity as CaCO3	3	5	6	7	mg/L
Turbidity	.8	.4	.9	.5	NTU
Volumes purged	6.81	2.49	3.03	3.75	well volume
Sampling code					
Synchronous water level	216.3 (09/25/98)	217.7 (03/29/99)	217.7 (09/21/99)	216.7 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	37.1		39.6		43.1						ug/L	
	Cyanide	<10	U	<10	U	<10	JU Q					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<500	U	<500	JU Q	<1	U	20.5	J IK	NDD	50	ug/L	ML
	1,1-Dichloroethane	<500	U	<500	JU Q	<1	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	41.1		<500	JU Q	32.6		35	J IK	NDD	50	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<500	JU Q	<1	U	<50	U	< EQL	50	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<500	JU Q	<1	U	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	1030		1360	J Q	1170		1140	J K	NDD	50	ug/L	ML
	1,1,1-Trichloroethane	<500	U	<500	JU Q	4.32		<50	U	< EQL	50	ug/L	ML
	Trichloroethylene	3810		5660	J Q	5990		6490	J K	NDD	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	16.1	J	12.6	J	<200	U	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	19100		19200		16400		14400		> 2400	5	ug/L	EX
+	Sodium, total recoverable	21300		21000		22100		21800		> 4600	1	ug/L	EX
	Sulfate	163	J	<5000	U	<200	U	263	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	3.75		3.32		4.8		2.99		< 15	1	pCi/L	GP
	Nonvolatile beta	4.02		2.98		5.28		3.47	U V	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	2.5	J	11.6	J	5.21		2.2	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 70D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101781.8 E 44997.3	33.32428 Deg N -81.7461 Deg W	228.3 - 208.2 ft msl	362.2 ft msl	4 " PVC	S	M

SAMPLE DATE	08/17/98	03/03/99	03/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	219.3	221.22	Not Available	220.15	ft msl
pH	5.3	5.2		5.5	pH
Sp. Conductance	44	32		31	uS/cm
Water temperature	22.4	17.5		19.8	deg. C
Alkalinity as CaCO3	2	2		1	mg/L
Turbidity	24.1	44.8		2.3	NTU
Volumes purged	.140	.238		8.82	well volume
Sampling code	NX	X			
Synchronous water level	219.7 (09/25/98)	221 (03/29/99)	221.2 (09/21/99)	220.2 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.31	J	87								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<10	U	<100	U							ug/L	
	Nickel, total recoverable	9	J	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<5	JU Q			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	JU Q			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	JU Q			.84	J I	NDD	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q			<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	9.02		3.32	J IQ			4.43		< 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	JU Q			<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	3.74	J	<5	JU Q			<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	187		163		181	J					ug/L	
	Nitrate-nitrite as nitrogen	2900		2810		1770						ug/L	
	Sodium, total recoverable	2960		2750		3220						ug/L	
	Sulfate	204	J	<5000	U	<400	U					ug/L	
Radionuclides													
	Gross alpha	7.77		69.9		20.87						pCi/L	
	Nonvolatile beta	5.57		37.7		13.47						pCi/L	
	Radium, total alpha-emitting	1.6	J	47.7	J	2.98						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 71B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103801.6 E 44054.7	33.32720 Deg N -81.7525 Deg W	135.9 - 131.1 ft msl	344.7 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/28/98	02/12/99	02/16/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	216.15	217.32	Not Available	215.8	ft msl
pH	10.4	6.3			pH
Sp. Conductance	210	42			uS/cm
Water temperature	20	19.2			deg. C
Alkalinity as CaCO3	27	18			mg/L
Turbidity	15	94.1			NTU
Volumes purged	.216	2.85			well volume
Sampling code	NX				
Synchronous water level	216.4 (09/21/98)	217.4 (03/29/99)	217 (09/21/99)	215.8 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLPEPA	1Q00	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	30.3		<10	U	16						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLPEPA	3Q99	CLPEPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	126	J	859		2000		140	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1000		166		158	J	87.7	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2130		25700		7490		4000		< 4600	1	ug/L	EX
	Sulfate	200	J	<5000	U	1110		791		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.19	J	.06	UI	2.28		.922	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.75		3.29	UI	3.43		2.24	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.7		3.14	J	.51		-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 72B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 96387.6 E 48350.3	33.31783 Deg N -81.7267 Deg W	156.7 - 152 ft msl	328.2 ft msl	4 " PVC	S	LL

SAMPLE DATE 08/20/98 02/12/99 08/17/99 02/16/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	200.65	201.09	200.1	199.29	ft msl
pH	6.7	6.4	6.5		pH
Sp. Conductance	56	32	46		uS/cm
Water temperature	19.4	18.7	19.9		deg. C
Alkalinity as CaCO3	17	9	16		mg/L
Turbidity	.7	.9	.8		NTU
Volumes purged	2.68	9.50	3.28		well volume
Sampling code					
Synchronous water level	201 (09/21/98)	200.9 (03/26/99)	149.6 (09/22/99)	199.1 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	30.3		<10	U	19						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	8.45	J	<50	U	<7.2	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	UJ	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	91	J	48.7		75.3	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	470		445		385		442	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1660		1610		2340		1700		< 4600	1	ug/L	EX
	Sulfate	928	J	<5000	U	836		652		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.09	J	8.87		1.75		.264	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.909	UI	13.2		.53	UI	.983	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	11.9	J	.28	UI	.4	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 73B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99270.3 E 45694	33.31986 Deg N -81.7393 Deg W	135.5 - 130.8 ft msl	339.6 ft msl	4 " PVC	S	LL
SAMPLE DATE		09/14/98	03/03/99	08/30/99	03/17/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	201.1	202.3	201.74	200.91	ft msl	
pH	5	4.6	4.7	4.8	pH	
Sp. Conductance	36	42	39	42	uS/cm	
Water temperature	20.3	18.8	20	19	deg. C	
Alkalinity as CaCO3			0	0	mg/L	
Turbidity	1.4	.4	.7	.6	NTU	
Volumes purged	4.02	2.57	2.41	2.62	well volume	
Sampling code						
Synchronous water level	()	202.2 (03/26/99)	201.5 (09/21/99)	200.5 (03/21/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.65	J	13.3		10						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	15.8		15.2		17.6	J K	19.4		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	59.4		56.9		53	J K	61		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	54	J	72.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1800		2030		1650		1830		< 2400	5	ug/L	EX
	Sodium, total recoverable	2240		2310		2570		2760		< 4600	1	ug/L	EX
+	Sulfate	3090		3520	J	3190		3130		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.482	UI	.26	UI	1.45		.324	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.41		1.49	UI	2.54		1.99	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.6		1	J	.41	UI	.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 74B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99197.4 E 50443.2	33.32746 Deg N -81.7267 Deg W	147.5 - 142.8 ft msl	314.5 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/12/98	03/04/99	03/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	210.45	210.9	Not Available	210.3	ft msl
pH	5.8	5.7		6.4	pH
Sp. Conductance	22	32		33	uS/cm
Water temperature	20.8	18.4		18.7	deg. C
Alkalinity as CaCO ₃	2	10		9	mg/L
Turbidity	1.9	.3		.6	NTU
Volumes purged	4.64	2.79		2.52	well volume
Sampling code					
Synchronous water level	210.9 (09/21/98)	211.1 (03/26/99)	210.3 (09/22/99)	210.1 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.5		25.8								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<10	U	<100	U							ug/L	
	Nickel, total recoverable	8.88	J	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<5	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<5	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<5	U			<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<5	U			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	U			<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<25	U	<5	U			1.2		< 5	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<5	U			<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	80.5		134				130		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	21.7		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	920	J	1030		728						ug/L	
	Sodium, total recoverable	2140		1700		1750						ug/L	
	Sulfate	1520		<5000	U	1090						ug/L	
Radionuclides													
	Gross alpha	.69	J	-.27	UI	1.97						pCi/L	
	Nonvolatile beta	.893	UIJ	-1.71	UI	.93	UI					pCi/L	
	Radium, total alpha-emitting	.3	UI	5.24	J	8.39	J					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 74C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99191.1 E 50457.1	33.32747 Deg N -81.7266 Deg W	177.8 - 173.1 ft msl	315 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/12/98	03/04/99	03/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	210.74	211	Not Available	210.12	ft msl
pH	6.1	8.4		6.8	pH
Sp. Conductance	68	120		86	uS/cm
Water temperature	28.8	14.8		17.7	deg. C
Alkalinity as CaCO3	1	42		22	mg/L
Turbidity	3.1	2.5		3.8	NTU
Volumes purged	.041	.081		.041	well volume
Sampling code	NX	X		NX	
Synchronous water level	210.8 (09/21/98)	211.1 (03/26/99)	210.2 (09/22/99)	210 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	35.2		63.2								ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<10	U	<100	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<10	U	<10	U							ug/L	
Organics													
	Chlorobenzene	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<5	U			<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	43		43.3				166	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	50.4	J	56		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	430		73	J	8840						ug/L	
	Sodium, total recoverable	4640		4630		4100						ug/L	
	Sulfate	13700		13300		13400						ug/L	
Radionuclides													
	Gross alpha	.785	J	.08	UI	1.83						pCi/L	
	Nonvolatile beta	3.18	J	-.15	UI	2.43						pCi/L	
	Radium, total alpha-emitting	.3	UI	5.24	J	6.67	J					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 74D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99185.3 E 50469.7	33.32747 Deg N -81.7266 Deg W	237.1 - 217.1 ft msl	315.1 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/12/98	03/04/99	09/14/99	03/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	233.85	232.65	231.35	230.14	ft msl
pH	5.4	6.8	5	5.3	pH
Sp. Conductance	42	30	32	32	uS/cm
Water temperature	26.3	16.6	19.3	19.1	deg. C
Alkalinity as CaCO3		9	2	2	mg/L
Turbidity	14.1	5.5	9.4	1.1	NTU
Volumes purged	.092	.099	.108	4.27	well volume
Sampling code	NX	X	NX		
Synchronous water level	233.8 (09/21/98)	232.6 (03/26/99)	231.3 (09/22/99)	230 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.8		8.36	J I	9.68	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	18.4		<100	U	19.8						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	.35	J I	NDD	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	12.3		<5	U	6.81	J K	7.23		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	14.8		<5	U	9.63	J K	9.32		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	559		1320		117	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1930		2140		2280		1750		< 2400	5	ug/L	EX
	Sodium, total recoverable	4520		4800		4680		4180		< 4600	1	ug/L	EX
	Sulfate	455	J	<5000	U	276		331		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.34		1.98	UI	1.9		.894	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.3		1.47	UI	4.03		1.12	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.8		.59	UIJ	.14	UIJ	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 75B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 98937.4 E 48875.5	33.32432 Deg N -81.7303 Deg W	161.7 - 156.9 ft msl	326.7 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/14/98	02/24/99	09/14/99	03/20/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	209.9	209.9	209.15	208.95	ft msl
pH	6.1	5.3	5.2	5.1	pH
Sp. Conductance	48	57	52	74	uS/cm
Water temperature	21	18.7	18.9	18.9	deg. C
Alkalinity as CaCO3	2	3	3	2	mg/L
Turbidity	13.8	8	13.9	6.5	NTU
Volumes purged	3.29	3.64	3.31	4.59	well volume
Sampling code					
Synchronous water level	209.7 (09/21/98)	210 (03/26/99)	209 (09/22/99)	208.8 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	19.2		25		24.9						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethane	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1-Dichloroethylene	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	Tetrachloroethylene	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<125	U	<1	U	<10	U	< EQL	10	ug/L	ML
+	Trichloroethylene	1880		4080		2820		2650		> 5	10	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	355	J	122		94	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3240	J	5540		3000		4710		> 2400	5	ug/L	EX
	Sodium, total recoverable	2880		2960		3360		3720		< 4600	1	ug/L	EX
	Sulfate	1540		<5000	U	1460		1140		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.44	J	1.55		2.86		2.37		< 15	1	pCi/L	GP
	Nonvolatile beta	2.98	J	1.83	UI	4.67		2.55	J IK	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.3		1.43	J	1.38		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 75C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 98942.3 E 48859.7	33.32431 Deg N -81.7304 Deg W	193.5 - 188.8 ft msl	327.5 ft msl	4" PVC	S	UL

SAMPLE DATE	08/20/98	02/12/99	08/18/99	02/15/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	209.2	210.12	209.35	208.62	ft msl
pH	5.4	5.8	5.3	5.2	pH
Sp. Conductance	59	46	57	53	uS/cm
Water temperature	21.4	17.6	22	16.9	deg. C
Alkalinity as CaCO3	4	5	4	6	mg/L
Turbidity	4	6	5.4	3.9	NTU
Volumes purged	.152	.219	0	.078	well volume
Sampling code	NX	NX	NX	NX	
Synchronous water level	209.8 (09/21/98)	210 (03/26/99)	209.3 (09/22/99)	208.6 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	22.9		<10	U	20						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	11.3		<100	U	12.4						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<7.6	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	102	J	78.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	260		316		<200	U	<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	5820	J	5340		6270		5300		> 4600	1	ug/L	EX
+	Sulfate	13400		13400		12700		14500		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.21		1.88	UI	1.78		.257	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	3.23		2.76	UI	3.3		2.5	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.1		1.21	J	.46		1.3		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 76C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103061.6 E 45344	33.32767 Deg N -81.7476 Deg W	186 - 181.3 ft msl	352.4 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/12/98	03/03/99	09/28/99	03/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	219	220.78	Not Available	219.21	ft msl
pH	6.1	6.8	6.8	7.3	pH
Sp. Conductance	38	60	57	63	uS/cm
Water temperature	20.3	18.7	19.9	18	deg. C
Alkalinity as CaCO3	3	18	22	28	mg/L
Turbidity	2.7	1.8	2.1	.9	NTU
Volumes purged	4.80	2.72		2.75	well volume
Sampling code					
Synchronous water level	219.2 (09/21/98)	220.7 (03/29/99)	220.7 (09/21/99)	219.2 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	15.3		20.3		28.9						ug/L	
	Cyanide	<10	U	<10	U	<10	JU Q					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<500	U	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	1,1-Dichloroethane	<500	U	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	1,1-Dichloroethylene	<500	U	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<500	U	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
+	Tetrachloroethylene	<500	U	<500	U	47.6		43		> 5	20	ug/L	ML
	1,1,1-Trichloroethane	<500	U	<500	U	<1	U	<20	U	< EQL	20	ug/L	ML
+	Trichloroethylene	6290		6750		5680		4620		> 5	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	432	J	46.2		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	980	J	1890		1490		1430		< 2400	5	ug/L	EX
+	Sodium, total recoverable	27200		4210		4580		5700		> 4600	1	ug/L	EX
	Sulfate	3720		<5000	U	516		982		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.75	J	.59	UI	1.02		.726	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.4	J	.01	UI	1.14	UI	.794	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		3.66	UIJ	2.55	UJ	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 77B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107065.8 E 54217.4	33.35101 Deg N -81.7321 Deg W	145.1 - 140.4 ft msl	357.2 ft msl	4" PVC	S	LL

SAMPLE DATE	08/19/98	02/11/99	08/25/99	02/15/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	219.9	221.4	220.62	220.04	ft msl
pH	6.9	5.8	6.6	5.6	pH
Sp. Conductance	32	40	42	44	uS/cm
Water temperature	19	19	18.9	17.7	deg. C
Alkalinity as CaCO3	11	12	10	12	mg/L
Turbidity	1	.3	.6	.8	NTU
Volumes purged	3.66	2.47	2.46	2.48	well volume
Sampling code					
Synchronous water level	220.6 (09/22/98)	221.2 (03/26/99)	220.5 (09/22/99)	220 (03/22/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	23.7		<10	U	34						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<9.99	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	553		125		104	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	400		129		848		873		< 2400	5	ug/L	EX
	Sodium, total recoverable	5410		1730		1910		2000		< 4600	1	ug/L	EX
	Sulfate	823	J	<5000	U	<200	U	<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	6.3	J	.72	UI	2.35	J	1.58	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	4.4		1.78	UI	7.08	J	1.19	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.1		4.54	J	.35	UI	.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 77C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107078.3 E 54225.9	33.35106 Deg N -81.7321 Deg W	173.2 - 168.5 ft msl	357.2 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/17/98	02/12/99	08/30/99	03/11/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.05	223.5	222.86	222.26	ft msl
pH	6.2	6.4	5.8	6.2	pH
Sp. Conductance	36	35	30	27	uS/cm
Water temperature	21	18.5	19	18.9	deg. C
Alkalinity as CaCO3	1	9	7	13	mg/L
Turbidity	7.1	2	.7	.8	NTU
Volumes purged	8.01	2.72	2.56	2.95	well volume
Sampling code					
Synchronous water level	222.9 (09/22/98)	223.4 (03/26/99)	222.7 (09/22/99)	222 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	13.3		<10	U	12						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	16		15.9		17.5	J K	16.2	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	85.7		145	J	<200	U	< EQL	1	ug/L	EX •
	Nitrate-nitrite as nitrogen	1570	J	1470		790		654		< 2400	5	ug/L	EX
	Sodium, total recoverable	2520		2330		2350		2190		< 4600	1	ug/L	EX
	Sulfate	206	J	<5000	U	<400	U	242	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.15	J	2.36	UI	2.42		.554	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.79	J	3.71	UI	3.84		1.8	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.5		1.24	J	.85		.5	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 78DR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103652 E 45470.6	33.32918 Deg N -81.7485 Deg W	226.9 - 206.8 ft msl	363.7 ft msl	2" PVC		M/GC

SAMPLE DATE	09/16/98	03/03/99	09/14/99	03/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.6	223.25	223.1	221.64	ft msl
pH	6.9	5.3	5.4	9.6	pH
Sp. Conductance	25	24	23	36	uS/cm
Water temperature	19.1	20.7	20.9	15.2	deg. C
Alkalinity as CaCO3	1	2	3	12	mg/L
Turbidity	9.7	5.5	4.3	12.8	NTU
Volumes purged	3.30	9.65	4.87	.411	well volume
Sampling code	NX			NX	
Synchronous water level	222.1 (09/21/98)	223 (03/29/99)	223.1 (09/21/99)	221.6 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.5	J	4.3	J I	3.8	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	49.9	J	<100	U	46						ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	.71	J IK	4.7		< 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	10.6		10.6		9.04	J K	25.3		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable			50.7		167	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen			1410		1020		1120		< 2400	5	ug/L	EX
	Sodium, total recoverable			1970		2160		1970		< 4600	1	ug/L	EX
	Sulfate			<5000	U	322	J	191	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha			~.79	UI	7.62		1.36	J I	NDD	1	pCi/L	GP
	Nonvolatile beta			-1.54	UI	6.23	J	.201	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting			3.18	J	1.5		.9	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 79B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99296.9 E 47300.2	33.32254 Deg N -81.7352 Deg W	140.8 - 136.1 ft msl	347.9 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/27/98	03/05/99	09/14/99	03/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	206.8	207.37	206.91	206.43	ft msl
pH	12	11.8	11.7	11.5	pH
Sp. Conductance	3080	3600	3340	3060	uS/cm
Water temperature	24.4	17.7	22.9	14.5	deg. C
Alkalinity as CaCO3	719	787	714	671	mg/L
Turbidity	5.7	4.6	4.8	3.9	NTU
Volumes purged	.022	.021	.022	.022	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	206.9 (09/21/98)	207.8 (03/26/99)	207 (09/22/99)	206.3 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	819		934		790						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	55.1	J	<100	U	<10	U					ug/L	
	Nickel, total recoverable	19	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	4.85	J	4.97	J I	5.9		5.92	J L	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	24.1	J	26.9		31.8		28.5	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	2140	J	2190		2190		1720		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1420	J	1150		880		783		< 2400	5	ug/L	EX
+	Sodium, total recoverable	29300		26400		25100		19300		> 4600	1	ug/L	EX
+	Sulfate	3200		3480	J	3640		3690		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	7.04	J	16.2	UI	22.05		6.51		< 15	1	pCi/L	GP
	Nonvolatile beta	17.2	J	7.44	UI	16.4		17.6	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	2.2		12.7	J	4.47		2.9		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 79C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 99290.2 E 47286.8	33.32251 Deg N -81.7352 Deg W	199.6 - 194.9 ft msl	347.8 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	08/27/98	03/05/99	09/14/99	03/18/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	209.3	209.65	209.3	208.67	ft msl
pH	6.8	6	6.2	6.5	pH
Sp. Conductance	98	78	75	74	uS/cm
Water temperature	20.7	18.1	19.8	17.2	deg. C
Alkalinity as CaCO ₃	17	14	14	11	mg/L
Turbidity	1.7	.7	.8	.8	NTU
Volumes purged	6.76	3.46	6.01	5.62	well volume
Sampling code					
Synchronous water level	209.6 (09/21/98)	210.1 (03/26/99)	209.4 (09/22/99)	208.5 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	31.7		28		25.6						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	16	J	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	1.63	J K	1.52		< 7	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	40.8		38		39.9	J K	38.7		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	53.6		51.3		61.6	J K	46.4		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	<61.8	UJ	170		126	J	217		> 100	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	4480		5380		4340		4760		> 2400	5	ug/L	EX
+	Sodium, total recoverable	4330		4720		6450		5920		> 4600	1	ug/L	EX
	Sulfate	800	J	<5000	U	1330		1000		< 3000	1	ug/L	EX
Radionuclides													
+	Gross alpha	2.1	J	4.25	UI	3.25		41.5		> 15	1	pCi/L	GP
	Nonvolatile beta	4.24	J	7.69	UI	8.72		15.1	J K	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.6		1.29	J	1.69		1	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 81B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103762.7 E 55230.4	33.34537 Deg N -81.7230 Deg W	146.1 - 141.4 ft msl	267 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/29/98	03/10/99	09/27/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.75	221.11	219.31	219.12	ft msl
pH	5.1	5	5.3	5.1	pH
Sp. Conductance	18	27	26	24	uS/cm
Water temperature	19.7	19	19.4	18.5	deg. C
Alkalinity as CaCO3		2	5	2	mg/L
Turbidity	1.1	.1	.8	.5	NTU
Volumes purged	3.44	2.72	2.57	2.73	well volume
Sampling code					
Synchronous water level	219.2 (09/22/98)	220.4 (03/26/99)	219.5 (09/22/99)	219.1 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	29.8		33.7		36.9						ug/L	
	Cyanide	<15.2	U	<10	JU L	<10	JU Q					ug/L	
	Lead, total recoverable	42	J	<100	U	<10	U					ug/L	
	Nickel, total recoverable	29.7	J	<6.54	JU	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<.59	U V	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	14.4	J	79.5	J	98.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	580	J	266		207		330	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	2040		1780		2000		2100		< 4600	1	ug/L	EX
	Sulfate	300	J	<5000	U	357		<400	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	.651	J	.97	UI	2.06	U	.964	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.64	J	1.33	UI	1.1	UI	1.15	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.6		5.06	UIJ	1.81		.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 82A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107529.5 E 51978.4	33.34838 Deg N -81.7389 Deg W	126.1 - 121.4 ft msl	374.3 ft msl	4 " PVC	S	MCBC
SAMPLE DATE		09/15/98	02/10/99	08/25/99	02/17/00	
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	184.55	220.6	219.35	219.72	ft msl	
pH	10.5	11.3	11.1	10.9	pH	
Sp. Conductance	790	860	952	922	uS/cm	
Water temperature	27.3	19	25.2	18.2	deg. C	
Alkalinity as CaCO ₃	132	185	170	190	mg/L	
Turbidity	.4	.3	.4	.6	NTU	
Volumes purged		.031	.016	0	well volume	
Sampling code	NX	X	NX	NX		
Synchronous water level	()	218.1 (03/26/99)	209 (09/20/99)	213.1 (03/20/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	184		139		170						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<10	U	<4.4	JU I					ug/L	
Organics													
	Chlorobenzene	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	131		89.7		77.8	J K	65.8		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	764	J	1100		793		850		> 100	1	ug/L	EX
	Nitrate-nitrite as nitrogen	570		1020		104	J	87.5	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	27000		20300		23500		20000		> 4600	1	ug/L	EX
+	Sulfate	25300		23300		24000		22400		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.67		5.61	UI	3.7		.89	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	11.9		9.36	UI	8.27		6.49		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.6	J	1.31	J	.25	UI	.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 82B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107533.4 E 51993.3	33.34842 Deg N -81.7388 Deg W	148.2 - 143.5 ft msl	374.2 ft msl	4 " PVC	S	CBC

SAMPLE DATE 08/19/98 02/11/99 08/18/99 01/31/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.1	219.45	218.9	218.5	ft msl
pH	3.7	3.7	4.4	4.4	pH
Sp. Conductance	39	34	39	39	uS/cm
Water temperature	19.5	19.6	20.5	18.5	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1	.7	.5	.5	NTU
Volumes purged	2.46	3.28	2.57	2.55	well volume
Sampling code					
Synchronous water level	218.5 (09/22/98)	219.5 (03/26/99)	218.7 (09/20/99)	218.4 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.3		<10	U	11						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<7.9	U	<50	JU	<16	JU I					ug/L	
	Selenium, total recoverable	<10	U			<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<131	U	124		101	J	76	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	290		89		<100	U	101	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1770		1730		1820		2000		< 4600	1	ug/L	EX
+	Sulfate	7040		7370		7910		7590		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	11.1		1.32		2.67	J	1.95	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	9.35		2.79		6.45	J	4.79		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	4.7		7.42	J	1.32		.8	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 82C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107521.9 E 51949.4	33.34832 Deg N -81.7389 Deg W	177.7 - 173 ft msl	373.9 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/19/98	02/11/99	08/18/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	226.31	227.39	227.18	226.5	ft msl
pH	4.7	5.8	5.9	5.6	pH
Sp. Conductance	33	32	31	30	uS/cm
Water temperature	19.2	19.5	20.3	18.3	deg. C
Alkalinity as CaCO3	2	3	6	4	mg/L
Turbidity	.6	.3	.5	.5	NTU
Volumes purged	2.84	3.15	2.65	2.40	well volume
Sampling code					
Synchronous water level	227.7 (09/22/98)	227.5 (03/26/99)	227.1 (09/20/99)	226.3 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	19.7		<10	U	20						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	.57	J I					ug/L	
	Nickel, total recoverable	<11.8	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<39.7	U	<50	U	78.2	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1850		1640		1520		1640		< 2400	5	ug/L	EX
	Sodium, total recoverable	2720		2880		3000		3300		< 4600	1	ug/L	EX
	Sulfate	169	J	<5000	U	<200	U	182	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	1.17		1.31		2.31	J	1.09	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.683	UI	3.69	UI	1.61	UIJ	2.26	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.4		.9		.46		.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 82D

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107518.1 E 51934.6	33.34829 Deg N -81.7390 Deg W	236.9 - 216.8 ft msl	373.6 ft msl	4 " PVC	S	M

SAMPLE DATE	08/19/98	02/11/99	08/18/99	01/31/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	231.37	232.48	232.68	231.76	ft msl
pH	4.7	5	5.6	5.3	pH
Sp. Conductance	40	35	34	30	uS/cm
Water temperature	19.5	19.6	20.2	18.8	deg. C
Alkalinity as CaCO ₃	1	1	1	4	mg/L
Turbidity	.9	.5	2.8	.7	NTU
Volumes purged	4.56	3.94	2.92	2.58	well volume
Sampling code					
Synchronous water level	231.7 (09/22/98)	232.7 (03/26/99)	232.5 (09/20/99)	231.6 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	4.67	J	<10	U	3.7	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	2.73	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	JU	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<37	U	<20	U	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1850		81		2320		1870		< 2400	5	ug/L	EX
	Sodium, total recoverable	3460		4730		5090		4000		< 4600	1	ug/L	EX
	Sulfate	1160		<5000	U	1200		753		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	2.98		5.4	UI	6.6	J	2.48		< 15	1	pCi/L	GP
	Nonvolatile beta	.71	UI	5.9	UI	3.78	J	1.65	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	1.6		1.44	J	.84		1.4	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 82TA

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 107525.7 E 51964.2	33.34835 Deg N -81.7389 Deg W	93.8 - 88.4 ft msl	373.7 ft msl	4" CS	S	CBA

SAMPLE DATE	09/01/98	02/10/99	08/25/99	02/17/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	212.9	214.4	213.4	213.26	ft msl
pH	5.6	5.5	5.5	5.4	pH
Sp. Conductance	26	25	26	24	uS/cm
Water temperature	20.5	19.7	20.3	19.8	deg. C
Alkalinity as CaCO3	5	3	3	1	mg/L
Turbidity	9.3	8.6	5.1	8.2	NTU
Volumes purged	3.79	2.27	2.71	2.52	well volume
Sampling code					
Synchronous water level	210.9 (09/22/98)	213.8 (03/26/99)	213.3 (09/20/99)	213 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	3.01	J	3.8	J I	4.3	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	85.9	J	81.6		96.8	J K	123	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	30.5	J	13.3	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	820	J	1580		543		531		< 2400	5	ug/L	EX
	Sodium, total recoverable	1640		1500		1700		2000		< 4600	1	ug/L	EX
	Sulfate	1930		<5000	U	2060		1970		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.947		.82	UI	1.6		.0863	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.42		-.42	UI	13.64		1.39	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.3	J	2.24	UIJ	1.32		.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 83B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 108426.7 E 52421.4	33.35109 Deg N -81.7394 Deg W	146.3 - 141.6 ft msl	371.8 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	08/19/98	02/10/99	08/18/99	02/10/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	220.39	221.52	221.05	220.78	ft msl
pH	4.5	5.8	5.1	5.3	pH
Sp. Conductance	25	19	20	20	uS/cm
Water temperature	20.3	19.7	19.4	18.6	deg. C
Alkalinity as CaCO ₃	1	1	0	2	mg/L
Turbidity	.3	.3	.7	.7	NTU
Volumes purged	2.66	2.47	2.39	2.53	well volume
Sampling code					
Synchronous water level	220.4 (09/22/98)	221.5 (03/26/99)	221 (09/20/99)	220.5 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	9.5	J	6.81	J I	6.5	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<5	U					ug/L	
	Nickel, total recoverable	<10.9	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	19.6	J	20.2		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	700		576		427		497	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	1600		1640		1860		1800		< 4600	1	ug/L	EX
	Sulfate	1390		<5000	U	1370		1360		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.3		.35	UI	2.39	J	1.71	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	2.72		.04	UI	3.44	J	3.18		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1		2.16	UIJ	1.33		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 83C

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 108405.3 E 52384.7	33.35098 Deg N -81.7395 Deg W	182.8 - 178 ft msl	372 ft msl	4 " PVC	S	LL

SAMPLE DATE	08/19/98	02/10/99	08/18/99	02/10/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	227.09	228.03	227.75	227.01	ft msl
pH	8.5	8.3	8.9	8.4	pH
Sp. Conductance	64	59	61	65	uS/cm
Water temperature	20.8	19.7	19.4	18.3	deg. C
Alkalinity as CaCO3	15	12	51	17	mg/L
Turbidity	.3	.2	.2	.4	NTU
Volumes purged	3.02	2.94	3.20	2.81	well volume
Sampling code					
Synchronous water level	227.6 (09/22/98)	228 (03/26/99)	227.8 (09/20/99)	226.9 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	18.1		16.4		16						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<5	U					ug/L	
	Nickel, total recoverable	<18.2	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<106	U	162		197	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1910		1900		1360		1410		< 2400	5	ug/L	EX
	Sodium, total recoverable	2450		2400		2430		2300		< 4600	1	ug/L	EX
	Sulfate	211	J	<5000	U	<200	U	174	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	1.27		0	UI	1.06	UIJ	.479	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.46		-2.2	UI	1.5	UIJ	1.36	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	5.14	UIJ	.43		.3	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 83TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108416.3 E 52410.9	33.35105 Deg N -81.7394 Deg W	75.7 - 70.2 ft msl	371.7 ft msl	4 " PVC	S	CBA

<u>SAMPLE DATE</u>	08/19/98	02/22/99	08/19/99	02/10/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	214.14	215.42	214.95	214.78	ft msl
pH	4.3	6	4.5	5	pH
Sp. Conductance	23	20	18	16	uS/cm
Water temperature	21.2	18.3	19.9	18.7	deg. C
Alkalinity as CaCO ₃	1	4	0	1	mg/L
Turbidity	.5	.1	.1	.5	NTU
Volumes purged	2.52	2.39	2.51	2.32	well volume
Sampling code					
Synchronous water level	212.6 (09/22/98)	215.3 (03/26/99)	214.8 (09/20/99)	214.5 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.08	J	4.3		3.6	J I					ug/L	
	Cyanide	<10	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.88	U V					ug/L	
	Nickel, total recoverable	<9.18	U	<26	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	2	J I	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<29.1	U	11.6	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	900		757		730		757		< 2400	5	ug/L	EX
	Sodium, total recoverable	1340		1320		1270		1600		< 4600	1	ug/L	EX
	Sulfate	515	J	<5000	U	<200	U	546		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.494	UI	.29	UI	1.03	J	.665	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.302	UI	-1.32	UI	-.51	UIJ	.829	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	3.37	UIJ	.61		.3	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 84A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 108982.1 E 51971.2	33.35158 Deg N -81.7417 Deg W	129.4 - 124.5 ft msl	361.5 ft msl	4" PVC	S	MCBC

SAMPLE DATE	08/18/98	02/11/99	08/26/99	01/31/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	210.8	182.69	212.49	208.92	ft msl
pH	9.4	8.7	8.8	8.9	pH
Sp. Conductance	28	300	232	231	uS/cm
Water temperature	24	18	21	17.1	deg. C
Alkalinity as CaCO3	74	79	67	16	mg/L
Turbidity	5.1	1.7	2	1.4	NTU
Volumes purged	.035	.026	0	0	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	163.3 (09/22/98)	169 (03/26/99)	163 (09/20/99)	197 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	30		<10	U	44						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<5	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filter	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	286		112		115	J	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	230		<10	U	<500	U	<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	88300		51600		40700		30000		> 4600	1	ug/L	EX
+	Sulfate	45200		37300		12800		25800		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.061	UI	.64	UI	3.04		.538	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	14		28.7		25.88	J	13.4		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	2.55	J	.39		.4	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 84C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108967.9 E 51973.7	33.35156 Deg N -81.7417 Deg W	194.9 - 190.2 ft msl	361.9 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/18/98	02/11/99	08/19/99	01/31/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.92	229.76	229.54	228.76	ft msl
pH	5.8	4.2	5.6	5.4	pH
Sp. Conductance	32	28	28	27	uS/cm
Water temperature	19.7	18.9	20.1	18.4	deg. C
Alkalinity as CaCO3	4	1	3	5	mg/L
Turbidity	.1	.2	.2	.4	NTU
Volumes purged	2.55	2.88	2.66	2.80	well volume
Sampling code					
Synchronous water level	229.5 (09/22/98)	229.9 (03/26/99)	229.3 (09/20/99)	228.6 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.34	J	<10	U	7.1	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<3.24	U V					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U			<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	42.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1940		2040		1250		1330		< 2400	5	ug/L	EX
	Sodium, total recoverable	2460		2490		2350		2300		< 4600	1	ug/L	EX
	Sulfate	204	J	<5000	U	<200	U	234		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.873		1.11	UI	2.92		.553	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.11	UI	2.21	UI	1.41	UIJ	.799	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		3.26	UIJ	.53		.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 85B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107827 E 53122.7	33.35091 Deg N -81.7364 Deg W	137.3 - 132.6 ft msl	380.3 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	08/24/98	02/12/99	08/18/99	02/10/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	219.86	221	220.5	220.19	ft msl
pH	5.1	4.8	5.5	4.9	pH
Sp. Conductance	33	25	26	24	uS/cm
Water temperature	20.6	19.4	20.3	18.8	deg. C
Alkalinity as CaCO ₃	3	2	2	1	mg/L
Turbidity	.3	.3	.9	.8	NTU
Volumes purged	2.71	2.49	2.40	2.56	well volume
Sampling code					
Synchronous water level	220.2 (09/22/98)	220.9 (03/26/99)	220.3 (09/20/99)	219.9 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	16		<10	U	11						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<5	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<8.8	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	.61	J IK	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<45.2	U	17.3	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1700		1710		1340		1460		< 2400	5	ug/L	EX
	Sodium, total recoverable	2530		2210		2780		2300		< 4600	1	ug/L	EX
	Sulfate	283	J	<5000	U	261	J	198	J I	NDD	1	ug/L	EX
Radionuclides													
	Gross alpha	.697		-.76	UI	.94	UIJ	.523	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.09	UI	-1.2	UI	.18	UI	1.4	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	3.61		.1	UI	.2	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 85C

<u>SRS Coord</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107835.2 E 53151.4	33.35097 Deg N -81.7364 Deg W	173.6 - 168.8 ft msl	380.9 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/01/98	02/10/99	08/25/99	02/17/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	224.1	224.25	223.75	222.95	ft msl
pH	7.9	6.2	6.2	5.6	pH
Sp. Conductance	52	46	47	42	uS/cm
Water temperature	20.4	18.8	20.8	18.9	deg. C
Alkalinity as CaCO ₃	12	7	4	1	mg/L
Turbidity	1.4	.4	.3	.6	NTU
Volumes purged	3.76	2.35	2.81	2.46	well volume
Sampling code					
Synchronous water level	223.7 (09/22/98)	224.2 (03/26/99)	223.6 (09/20/99)	223 (03/20/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.9		16.6		16						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<10.5	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<10	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	UJ	<5	U	<1	U	<1	JU L	< EQL	1	ug/L	ML
	Trichloroethylene	37.1	J	40.3		41.5	J K	53.1	J L	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	18.7	J	<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2680	J	3330		2170		2290		< 2400	5	ug/L	EX
	Sodium, total recoverable	3960		4090		3970		4600		< 4600	1	ug/L	EX
	Sulfate	187	J	<5000	U	447		178	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	.445	UIJ	.35	UI	1.47		1.15	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.56	J	-.26	UI	8.74		1.18	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.7		3.64		.43	U	.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 85D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107822.8 E 53108.8	33.35088 Deg N -81.7365 Deg W	236.3 - 216.2 ft msl	380.8 ft msl	4" PVC	S	M

SAMPLE DATE	08/24/98	02/12/99	08/18/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.65	232.75	232.8	231.44	ft msl
pH	5.7	4.8	5.9	4.4	pH
Sp. Conductance	52	45	44	42	uS/cm
Water temperature	20.4	19.8	20.7	18.7	deg. C
Alkalinity as CaCO3	5	2	5	0	mg/L
Turbidity	14.5	6.5	10.8	11.1	NTU
Volumes purged	.200	4.29	2.97	4.36	well volume
Sampling code	NX				
Synchronous water level	231.6 (09/22/98)	232.8 (03/26/99)	232.7 (09/20/99)	231.5 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	27.2		<10	U	20						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	4.62	J	<100	U	1.13	J I					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<11	JU I					ug/L	
	Selenium, total recoverable	5.47	J	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	.83	J IK	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	680		240		96.9	J	<200	U	< EQL	1	ug/L	EX
+	Nitrate-nitrite as nitrogen	3440		4230		3260		2830		> 2400	5	ug/L	EX
+	Sodium, total recoverable	5700		2600		4000		4700		> 4600	1	ug/L	EX
	Sulfate	877	J	<5000	U	313	J	308		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	6.12		5.35		16.55	J	3.85		< 15	1	pCi/L	GP
	Nonvolatile beta	4.66		3.32		11.65		3.95		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	3.3		4.62		3.15		2.4		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 85TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107831.2 E 53137.2	33.35094 Deg N -81.7364 Deg W	88.2 - 82.8 ft msl	380.4 ft msl	4 " STEEL	S	CBA

SAMPLE DATE	08/24/98	02/12/99	08/18/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	219.42	220.51	220.08	219.44	ft msl
pH	6.5	6.7	8.2	5.9	pH
Sp. Conductance	59	52	53	47	uS/cm
Water temperature	20.9	18.3	21.5	18.4	deg. C
Alkalinity as CaCO3	20	20	22	15	mg/L
Turbidity	13.4	9.6	14.8	12	NTU
Volumes purged	.011	.011	0	.089	well volume
Sampling code	NX	X	NX	NX	
Synchronous water level	219.5 (09/22/98)	220.4 (03/26/99)	219.8 (09/20/99)	219.4 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	18.8		<10	U	18						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<5	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<12	JU I					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	4.12	J I	1.69	J K	1.56		< 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	75.4	J	344		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1000	J	2520		<500	U	82.1	J I	NDD	5	ug/L	EX
	Sodium, total recoverable	5870		3250		5190		4400		< 4600	1	ug/L	EX
	Sulfate	271	J	<5000	U	217	J	<200	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	.17	UIJ	.93	UI	.13	UIJ	-.0774	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.34	J	-.55	UI	2.23		.998	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	0	UI	2.29	UIJ	.31	UI	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL MSB 86C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108500.4 E 54560.5	33.35475 Deg N -81.7339 Deg W	164.8 - 160.1 ft msl	357 ft msl	4" PVC	S	LL

SAMPLE DATE	08/19/98	02/22/99	08/19/99	02/28/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	223.1	224.95	224.78	223.85	ft msl
pH	6.8	6.6	6.6	7.9	pH
Sp. Conductance	45	50	43	38	uS/cm
Water temperature	19.6	18.7	19.6	18.2	deg. C
Alkalinity as CaCO3	13	18	13	31	mg/L
Turbidity	4.9	1.8	4.2	6	NTU
Volumes purged	2.38	2.26	2.62	2.57	well volume
Sampling code					
Synchronous water level	224.1 (09/22/98)	225 (03/26/99)	224.6 (09/20/99)	223.9 (03/20/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	17.8		17.3		17						ug/L	
	Cyanide	<10	U	<15.2	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<2.18	U V					ug/L	
	Nickel, total recoverable	<13.9	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	1.03	J I	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	152		170		361		<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1570		1170		1100		1140		< 2400	5	ug/L	EX
	Sodium, total recoverable	2550		2590		3120		2300		< 4600	1	ug/L	EX
	Sulfate	272	J	<5000	U	<200	U	213		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.643		-.51	UI	3.13	J	.889	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.892	UI	-.8	UI	6.07	J	1.2	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.4		16.1	J	.19	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 87B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101276 E 51607	33.33395 Deg N -81.7277 Deg W	174.1 - 169.1 ft msl	336 ft msl	2 " PVC	V	UL

<u>SAMPLE DATE</u>	08/19/98	02/12/99	08/19/99	02/02/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	217.58	218.13	217.32	216.92	ft msl
pH	5.3	5.1	5.8	5.7	pH
Sp. Conductance	31	26	26	27	uS/cm
Water temperature	20.3	19	19.3	18.2	deg. C
Alkalinity as CaCO ₃	6	4	3	8	mg/L
Turbidity	.3	.4	.3	.6	NTU
Volumes purged	4.83	2.89	2.56	3.87	well volume
Sampling code					
Synchronous water level	218.4 (09/22/98)	218.1 (03/26/99)	217.4 (09/22/99)	316.9 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	23.7		<10	U	82						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<10	U	<100	U	<4.24	U V					ug/L	
	Nickel, total recoverable	<12.5	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<10	U	<200	U	<5	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<41.3	U	23.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	920		785		569		598		< 2400	5	ug/L	EX
	Sodium, total recoverable	1480		1460		1570		1700		< 4600	1	ug/L	EX
	Sulfate	1790		<5000	U	1270		1280		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.538	UI	0	UI	.01	UIJ	.498	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.744	UI	-1.62	UI	1.16	UIJ	.505	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	4.04	J	.05	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 87C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101277 E 51596.3	33.33394 Deg N -81.7277 Deg W	246.6 - 241.6 ft msl	336.6 ft msl	2 " PVC	V	M

<u>SAMPLE DATE</u>	<u>08/19/98</u>	<u>08/19/99</u>
FIELD DATA		
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>
Water Elevation	242.21	Not Available
pH		
Sp. Conductance		
Water temperature		
Alkalinity as CaCO3		
Turbidity		
Volumes purged		0
Sampling code	NPW	
Synchronous water level	242.1 (09/22/98)	240.5 (03/26/99)
		238.7 (09/22/99)
		()
		ft msl

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	242.21	Not Available	239.28	Not Available	ft msl
pH					pH
Sp. Conductance					uS/cm
Water temperature					deg. C
Alkalinity as CaCO3					mg/L
Turbidity					NTU
Volumes purged			0		well volume
Sampling code	NPW				
Synchronous water level	242.1 (09/22/98)	240.5 (03/26/99)	238.7 (09/22/99)	()	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
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												

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<41.8	U									ug/L	
	Nitrate-nitrite as nitrogen	770										ug/L	
	Sodium, total recoverable	3120										ug/L	
	Sulfate	458	J									ug/L	
Radionuclides													
	Gross alpha	.102	UI									pCi/L	
	Nonvolatile beta	.361	UI									pCi/L	
	Radium, total alpha-emitting	-.1	UI									pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 88B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97013	33.32317 Deg N	75.8 - 70.8 ft msl	238.1 ft msl	2 " PVC	V	M
E 50774.2	-81.7216 Deg W					

<u>SAMPLE DATE</u>	09/16/98	03/05/99	09/14/99	03/18/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	202.15	201.85	200.96	200.54	ft msl
pH	4.4	4.8	4.8	5.3	pH
Sp. Conductance	25	24	23	24	uS/cm
Water temperature	21.3	18.1	19	17.9	deg. C
Alkalinity as CaCO3			0	1	mg/L
Turbidity	.3	.2	.3	.7	NTU
Volumes purged	4.66	2.01	2.73	2.69	well volume
Sampling code					
Synchronous water level	202.1 (09/21/98)	202 (03/26/99)	201 (09/22/99)	200.4 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.11	J	4.98	J I	5.04	J I					ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	46.4	J	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	24.1		25.5		31.3	J K	27.3		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	U	79.7		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	990		<100	U	710		800		< 2400	5	ug/L	EX
	Sodium, total recoverable	1630		1670		1740		1750		< 4600	1	ug/L	EX
	Sulfate	1900		<5000	U	1740		1940		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.238	UI	.71	UI	1.24		.148	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.58	UI	-.13	UI	1.31	UI	1.49	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	-.5	UI	1.39	UIJ	.17	UIJ	0	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 88C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 97012.7 E 50784	33.32318 Deg N -81.7215 Deg W	127.2 - 122.2 ft msl	237.2 ft msl	2" PVC	V	LL

<u>SAMPLE DATE</u>	09/16/98	03/05/99	03/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	204.73	204.26	Not Available	203.03	ft msl
pH	5	5.2		5.3	pH
Sp. Conductance	41	41		41	uS/cm
Water temperature	21.9	17.3		18.1	deg. C
Alkalinity as CaCO3	1	2		1	mg/L
Turbidity	1.5	1		.4	NTU
Volumes purged	3.93	2.46		2.96	well volume
Sampling code					
Synchronous water level	204.7 (09/21/98)	204.3 (03/26/99)	203.4 (09/22/99)	202.9 (03/22/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5.04	J	4.38	J I							ug/L	
	Cyanide	<10	U	<10	U							ug/L	
	Lead, total recoverable	<100	U	<100	U							ug/L	
	Nickel, total recoverable	<50	U	<50	U							ug/L	
	Selenium, total recoverable	<200	U	<200	U							ug/L	
Organics													
	Chlorobenzene	<5	U	<10	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<10	U			<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<10	U			<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<10	U			<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<10	U			<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	57.4		75.8				39.1	J K	NDD	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<10	U			<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	187		231				150	J K	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<21.4	UJ	40.9		<200	U					ug/L	
	Nitrate-nitrite as nitrogen	2560	J	2910		2250						ug/L	
	Sodium, total recoverable	6540		6480		6980						ug/L	
	Sulfate	1130		<5000	U	844						ug/L	
Radionuclides													
	Gross alpha	.347	UIJ	.39	UI	.53	UI					pCi/L	
	Nonvolatile beta	.881	UIJ	1.4	UI	5.76						pCi/L	
	Radium, total alpha-emitting	.2	UI	6.58	J	.17	UI					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL MSB 89B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 98374.1 E 47889.9	33.32147 Deg N -81.7318 Deg W	162 - 157 ft msl	339.4 ft msl	2 " PVC	V	LL

<u>SAMPLE DATE</u>	09/15/98	03/03/99	09/14/99	03/20/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	207.35	207.85	206.69	206.34	ft msl
pH	4.8	5.3	5.2	5.4	pH
Sp. Conductance	30	32	29	31	uS/cm
Water temperature	21.8	18.4	20	19	deg. C
Alkalinity as CaCO3	1	1	1	1	mg/L
Turbidity	.4	.1	.2	.8	NTU
Volumes purged	4.27	3.14	3.83	4.61	well volume
Sampling code					
Synchronous water level	207.2 (09/21/98)	207.6 (03/26/99)	206.8 (09/22/99)	206.2 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.6		13.1		13.7						ug/L	
	Cyanide	<10	U	<10	U	<10	U					ug/L	
	Lead, total recoverable	<100	U	<100	U	<10	U					ug/L	
	Nickel, total recoverable	<50	U	<50	U	<50	U					ug/L	
	Selenium, total recoverable	<200	U	<200	U	<10	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Tetrachloroethylene	2.75	J	3.21	J I	4.27	J K	5.08		> 5	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<1	U	<1	U	< EQL	1	ug/L	ML
+	Trichloroethylene	102		112		130	J K	122		> 5	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	82.4		<200	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2140	J	1260		1960		2180		< 2400	5	ug/L	EX
	Sodium, total recoverable	2300		2280		2880		2390		< 4600	1	ug/L	EX
	Sulfate	344	J	<5000	U	345	J	301		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	.785	J	3.95	UI	1.77		1.05	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.14	J	3.61	UI	1.26	UI	1.93	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	1.38	J	.69	UI	.7	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL SRW 2A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103720.8 E 41634.6	33.32307 Deg N -81.7587 Deg W	98.4 - 88.6 ft msl	320.6 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/10/98	02/10/99	08/27/99	02/16/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	206.95	207.68	206.04	204.84	ft msl
pH	5	4.3	5		pH
Sp. Conductance	12	17	20		uS/cm
Water temperature	18.6	20.1	19.5		deg. C
Alkalinity as CaCO3			0		mg/L
Turbidity	.5	.1	.5		NTU
Volumes purged	4.32	2.45	2.46		well volume
Sampling code					
Synchronous water level	205.6 (09/25/98)	206 (03/29/99)	206 (09/20/99)	204.6 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLPEPA	1Q99	CLPEPA	3Q99	CLPEPA	1Q00	CLPEPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	4.3		4		<5.6	U V					ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	<47	U	<47	U	7.1	J I					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLPEPA	3Q97	CLPEPA	3Q98	CLPEPA	3Q99	CLPEPA	Fltr.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	<20	UJ	51.8		34.4	J	20.6	J I	NDD	1	ug/L	WA
	Nitrate-nitrite as nitrogen	550		99		416		411		< 2400	1	ug/L	WA
	Sodium, total recoverable	1690		1490		1440		1490		< 4600	1	ug/L	WA
	Sulfate	1080		<5000	U	1400		1200		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.586	UIJ	1.68	UI	1.74		.556	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	.834	UI	.29	UI	2.65		.429	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.2	UI	2.02	J	.37	UI	-.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL SRW 2B

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103729.7 E 41631.7	33.32308 Deg N -81.7587 Deg W	162.6 - 152.8 ft msl	320.6 ft msl	4 " PVC	S	UL

SAMPLE DATE	09/10/98	02/10/99	08/27/99	02/01/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	208.05	208.28	207.2	205.99	ft msl
pH	5.2	4.4	4.9	4.9	pH
Sp. Conductance	12	17	18	17	uS/cm
Water temperature	18.3	19.5	19.3	18.9	deg. C
Alkalinity as CaCO ₃			0	1	mg/L
Turbidity	.6	.4	.4	.5	NTU
Volumes purged	3.73	2.86	2.89	2.87	well volume
Sampling code					
Synchronous water level	206.4 (09/25/98)	208.2 (03/29/99)	207.1 (09/20/99)	205.8 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	6		6.1		<6.1	U V					ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	7.9	J	6.6	J I	9.2	J I					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	1.4	J	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
+	Aluminum, total recoverable	29		18.7	J	28.2	J	1420		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	830		154		650		674		< 2400	1	ug/L	WA
	Sodium, total recoverable	1430		1400		1440		1460		< 4600	1	ug/L	WA
	Sulfate	446		<5000	U	411		429		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	1.98		1.24	UI	3.52		1.42	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	1.91		1.29	UI	12.55		.709	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.2		9.71	J	.77		1.1	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

**Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 14A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102831.3 E 41538.6	33.32095 Deg N -81.7572 Deg W	123.7 - 113.9 ft msl	327 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/10/98	02/09/99	08/27/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	203.8	203.99	202.79	201.8	ft msl
pH	5.5	4.5	5.2	4.2	pH
Sp. Conductance	14	24	23	22	uS/cm
Water temperature	19.5	19.5	20.1	18.6	deg. C
Alkalinity as CaCO3	1	1	0	0	mg/L
Turbidity	1.3	.3	.4	.8	NTU
Volumes purged	2.80	2.45	2.82	2.99	well volume
Sampling code					
Synchronous water level	204 (09/25/98)	203.9 (03/29/99)	202.7 (09/20/99)	201.6 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5		4.4		<5.4	U V					ug/L	
	Cyanide	<15.2	U	<15.2	U	<15.2	U					ug/L	
	Lead, total recoverable	6.4	J	17	J I	<47	U					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	39.1		37.5		39.6	J Q	38.9	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
+	Aluminum, total recoverable	<20	UJ	6.1	J	30.1	J	463		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	1180		1670		1420		1480		< 2400	5	ug/L	WA
	Sodium, total recoverable	1820		1570		1600		1700		< 4600	1	ug/L	WA
	Sulfate	357	J	<5000	U	488		493		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.512	UIJ	.71	UI	1.15		.407	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.561	UI	.01	UI	6.88		1.6	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	-.2	UI	6.82	UIJ	.2	UI	.1	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

Table D-4. Groundwater Monitoring Results for Plume Definition Wells, M-Area HWMF (Cont.)
WELL SRW 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102836.1 E 41548.1	33.32097 Deg N -81.7572 Deg W	162.9 - 153.1 ft msl	326.9 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/10/98	02/09/99	08/27/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	204.45	205.79	204.77	203.69	ft msl
pH	5.6	4.5	5.3	5.1	pH
Sp. Conductance	10	23	21	21	uS/cm
Water temperature	18.5	19.3	19.5	18.5	deg. C
Alkalinity as CaCO3	1	1	2	3	mg/L
Turbidity	1	.2	.3	.4	NTU
Volumes purged	5.09	2.49	3.04	2.66	well volume
Sampling code					
Synchronous water level	205.8 (09/25/98)	205.7 (03/29/99)	204.6 (09/20/99)	203.6 (03/21/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5		5		<5.9	U V					ug/L	
	Cyanide	<15.2	U	2.2	J I	<15.2	U					ug/L	
	Lead, total recoverable	11.9	J	17.7	J I	15.4	J I					ug/L	
	Nickel, total recoverable	<26	U	<26	U	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	18.1		14.3		12.2	J Q	15.5	J	NDD	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLPEPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	11.7	J	<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	870		1180		988		1040		< 2400	5	ug/L	WA
	Sodium, total recoverable	1740		1400		1450		1470		< 4600	1	ug/L	WA
	Sulfate	295	J	<5000	U	408		415		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	.437	UIJ	2.08	UI	1.25		.935	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	.814	UI	1.98	UI	.92	UI	.604	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.3		5.42	J	.16	UI	.7	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL SRW 16A

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103763.4 E 42830.9	33.32512 Deg N -81.7556 Deg W	144.1 - 119.4 ft msl	346.8 ft msl	4 " PVC	S	LL

SAMPLE DATE	09/11/98	02/09/99	08/27/99	02/02/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	213	214.05	213.67	212.57	ft msl
pH	11.2	10.1	10.3	5.1	pH
Sp. Conductance	1100	250	170	35	uS/cm
Water temperature	18.5	18.6	21	18.7	deg. C
Alkalinity as CaCO3	13	79	60	4	mg/L
Turbidity	3.1	3.5	13.5	57.6	NTU
Volumes purged	.049	.016	0	.246	well volume
Sampling code	X	X	NX	NX	
Synchronous water level	213.4 (09/25/98)	214.2 (03/29/99)	213.6 (09/20/99)	212.5 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	101		44.3		38						ug/L	
	Cyanide	<15.2	U	1.54	J I	<15.2	U					ug/L	
	Lead, total recoverable	4.8	J	<47	U	<47	U					ug/L	
	Nickel, total recoverable	6.6	J	<26	U	3.7	J I					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	U	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<5	JU Q	1.22		< 5	1	ug/L	ML

II. Monitoring Constituents

ST	Parameter	3Q96	CLP EPA	3Q97	CLP EPA	3Q98	CLP EPA	3Q99	CLP EPA	Fltr.	DF	Unit	Lab
Inorganics													
+	Aluminum, total recoverable	1340	J	803		1050		608		> 100	1	ug/L	WA
	Nitrate-nitrite as nitrogen	340		359		220		473		< 2400	1	ug/L	WA
	Sodium, total recoverable	7180		5120		6080		3540		< 4600	1	ug/L	WA
	Sulfate	841	J	<5000	U	867	J	633		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	4.73	J	2.98	UI	9.03	J	1.96	J IK	NDD	1	pCi/L	GP
	Nonvolatile beta	3.81		1.16	UI	9.33	J	2.9		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.6		3.15	J	1.3		1	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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

WELL SRW 16B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103772 E 42825.8	33.32513 Deg N -81.7556 Deg W	169.9 - 160.1 ft msl	346.8 ft msl	4 " PVC	S	M

SAMPLE DATE	09/10/98	02/09/99	08/27/99	02/01/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	213.7	214.79	214.4	213.2	ft msl
pH	5.4	4.7	5.1	4.3	pH
Sp. Conductance	12	23	18	17	uS/cm
Water temperature	21.1	19	19.7	18.1	deg. C
Alkalinity as CaCO3	1	2	0	0	mg/L
Turbidity	1.6	.3	.8	.3	NTU
Volumes purged	2.93	2.62	2.33	3.97	well volume
Sampling code					
Synchronous water level	214.2 (09/25/98)	214.9 (03/29/99)	214.3 (09/20/99)	213.1 (03/21/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	7.1		6		6.8						ug/L	
	Cyanide	<15.2	U	1.87	J I	<15.2	U					ug/L	
	Lead, total recoverable	15.7	J	8	J I	28.9	J I					ug/L	
	Nickel, total recoverable	<26	U	3.6	J I	<26	U					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<1	JU	< EQL	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q96</u>	<u>CLP EPA</u>	<u>3Q97</u>	<u>CLP EPA</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<20	UJ	53.3		<146	U	<146	U	< EQL	1	ug/L	WA
	Nitrate-nitrite as nitrogen	990		620		731		730		< 2400	1	ug/L	WA
	Sodium, total recoverable	1870		1490		1330		1340		< 4600	1	ug/L	WA
	Sulfate	254	J	<5000	U	414		409		< 3000	1	ug/L	WA
Radionuclides													
	Gross alpha	2.19	J	3.36	UI	7.35		1.72	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.66		2.16		7.18		1.54	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.6		2.1		.98		.5	U V	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Groundwater Protection Standards First Quarter 2000 and Monitoring Constituents Third Quarter 1999 data only.

+ = exceeded the Groundwater Protection Standards (First Quarter 2000) or Monitoring Constituents (Third Quarter 1999) listed in Appendix A.

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Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999
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>
N 102599.1 E 48575.1	33.33193 Deg N -81.7382 Deg W	232.3 - 172.3 ft msl	364.7 ft msl	8 " CS	S	UNK
SAMPLE DATE	07/19/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl	
pH	4.8	4.4	4.8	4.6	pH	
Sp. Conductance	63	65	61	61	uS/cm	
Water temperature	21.2	24.5	22.7	16.2	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	.5	.1	1.2	.7	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<500	U	<500	U	<500	U	<200	JU Q	200	ug/L	ML
	1,1-Dichloroethane	<500	U	<500	U	<500	U	<200	JU Q	200	ug/L	ML
	1,1-Dichloroethylene	<500	U	<500	U	<500	U	<200	JU Q	200	ug/L	ML
	trans-1,2-Dichloroethylene	<500	U	<500	U	<500	U				ug/L	
	PCB 1016	<1.05	U								ug/L	
	PCB 1221	<2.1	U								ug/L	
	PCB 1232	<1.05	U								ug/L	
	PCB 1242	<1.05	U								ug/L	
	PCB 1248	<1.05	U								ug/L	
	PCB 1254	<1.05	U								ug/L	
	PCB 1260	<1.05	U								ug/L	
	1,1,2,2-Tetrachloroethane	<500	U	<500	U	<500	U	<200	JU Q	200	ug/L	ML
	Tetrachloroethylene	13600		12200		13100		11300	J Q	200	ug/L	ML
	1,1,1-Trichloroethane	<500	U	<500	U	<500	U	<200	JU Q	200	ug/L	ML
	Trichloroethylene	20000		16900		19100		15900	J Q	200	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104434.1 E 49205.5	33.33701 Deg N -81.7401 Deg W	208.3 - 198.3 ft msl	371.3 ft msl	8 " UNKN OV	S	UNK

<u>SAMPLE DATE</u>	07/20/99	08/23/99	09/10/99	10/21/99
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FIELD DATA

<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>
Water Elevation	225.7	<i>Not Available</i>	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH		4.4	4.5	4.6	pH
Sp. Conductance		89	87	83	uS/cm
Water temperature		24.2	21	17.4	deg. C
Alkalinity as CaCO ₃		0	0	0	mg/L
Turbidity		.6	2.4	.8	NTU
Volumes purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<500	U	<500	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethane			<500	U	<500	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethylene			<500	U	<500	U	<50	JU Q	50	ug/L	ML
	trans-1,2-Dichloroethylene			<500	U	<500	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<500	U	<500	U	<50	JU Q	50	ug/L	ML
	Tetrachloroethylene			9870		9690		12500	J Q	50	ug/L	ML
	1,1,1-Trichloroethane			<500	U	<500	U	<50	JU Q	50	ug/L	ML
	Trichloroethylene			9500		10600		13500	J Q	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 3

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104730.2 E 49680	33.33844 Deg N -81.7395 Deg W	214 - 204 ft msl	377 ft msl	8 " CS	S	UNK
SAMPLE DATE		07/19/99	08/23/99	09/10/99	10/21/99	
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	211.2	211.4	211.79	Not Available	ft msl	
pH	4.7	4.6	4.7	4.7	pH	
Sp. Conductance	49	50	48	47	uS/cm	
Water temperature	21.7	23.9	22.5	18.2	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	2.8	.6	1.2	.7	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	1,1-Dichloroethane	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	1,1-Dichloroethylene	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<125	U	<125	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	Tetrachloroethylene	1200	J K	850		697		979	J Q	20	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	Trichloroethylene	3050	J K	3020		2890		3730	J Q	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)

WELL RWM 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N -81.7394 Deg W	139.9 - 129.5 ft msl	366.5 ft msl	8" CS	S	M/GC/UL/LL
SAMPLE DATE	07/19/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	206.2	206	205.9	205.61	ft msl	
pH	5	4.7	4.9	5.1	pH	
Sp. Conductance	23	24	23	22	uS/cm	
Water temperature	21.1	23.4	21.4	17.2	deg. C	
Alkalinity as CaCO ₃	0	0	0	2	mg/L	
Turbidity	1	.1	1.2	.5	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<250	U	<250	U	<250	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<250	U	<250	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<250	U	<250	U	<50	JU Q	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<250	U	<250	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<250	U	<250	U	<250	U	<50	JU Q	50	ug/L	ML
	Tetrachloroethylene	884	J K	724		670		1030	J Q	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<250	U	<250	U	<50	JU Q	50	ug/L	ML
	Trichloroethylene	5300	J K	5190		5670		7380	J Q	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N -81.7372 Deg W	144.3 - 133.9 ft msl	366.9 ft msl	8 " CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	07/19/99	08/23/99	09/10/99	10/21/99
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FIELD DATA

<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>
Water Elevation	210.8	210.4	210.3	209.94	ft msl
pH	4.9	4.7	4.9	4.6	pH
Sp. Conductance	28	29	28	27	uS/cm
Water temperature	22	23.2	21.6	18.4	deg. C
Alkalinity as CaCO3	0	0	0	0	mg/L
Turbidity	1.1	.2	.4	.6	NTU
Volumes purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<50	U	<50	U	<10	JU Q	10	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<50	U	<10	JU Q	10	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<50	U	<10	JU Q	10	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<50	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<50	U	<10	JU Q	10	ug/L	ML
	Tetrachloroethylene	498		482		497		595	J Q	10	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<50	U	<10	JU Q	10	ug/L	ML
	Trichloroethylene	1260		1240		1380		1630	J Q	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 6

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102001.5 E 50107.4	33.33311 Deg N -81.7330 Deg W	218.7 - 208.4 ft msl	349.1 ft msl	8" CS	S	M/GC/UL/LL
SAMPLE DATE		07/19/99	08/23/99	09/10/99	10/21/99	
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	216.6	208.7	200.7	219.6	ft msl	
pH	5	4.8	4.9	5	pH	
Sp. Conductance	31	31	31	29	uS/cm	
Water temperature	23.3	25.3	22.1	18.3	deg. C	
Alkalinity as CaCO ₃	0	0	0	1	mg/L	
Turbidity	.8	1.3	1	.5	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<125	U	<100	U	<125	U	<20	JU Q	20	ug/L	ML
	1,1-Dichloroethane	<125	U	<100	U	<125	U	<20	JU Q	20	ug/L	ML
	1,1-Dichloroethylene	<125	U	<100	U	<125	U	<20	JU Q	20	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<100	U	<125	U				ug/L	
	PCB 1016	<1.05	U								ug/L	
	PCB 1221	<2.1	U								ug/L	
	PCB 1232	<1.05	U								ug/L	
	PCB 1242	<1.05	U								ug/L	
	PCB 1248	<1.05	U								ug/L	
	PCB 1254	<1.05	U								ug/L	
	PCB 1260	<1.05	U								ug/L	
	1,1,2,2-Tetrachloroethane	<125	U	<100	U	<125	U	<20	JU Q	20	ug/L	ML
	Tetrachloroethylene	2470		2420		2450		2670	J Q	20	ug/L	ML
	1,1,1-Trichloroethane	<125	U	<100	U	<125	U	<20	JU Q	20	ug/L	ML
	Trichloroethylene	1830		1740		1990		2200	J Q	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N -81.7346 Deg W	154.2 - 144 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	07/19/99	08/23/99	09/10/99	10/21/99
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FIELD DATA

<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>
Water Elevation	196.3	196.45	196.6	195.6	ft msl
pH	4.7	4.6	4.8	4.8	pH
Sp. Conductance	64	65	64	61	uS/cm
Water temperature	22.5	23.6	21.5	18.2	deg. C
Alkalinity as CaCO3	0	0	0	0	mg/L
Turbidity	.9	.2	.3	.4	NTU
Volumes purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<250	U	<500	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	Tetrachloroethylene	7450	J K	6930		6630		8070	J Q	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	Trichloroethylene	5530	J K	5570		5720		7230	J Q	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 8

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101948.2 E 47353.3	33.32849 Deg N -81.7402 Deg W	119.7 - 109.3 ft msl	348.3 ft msl	8" CS	S	GC/UL/LL
SAMPLE DATE		07/19/99	08/23/99	09/10/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>			<u>Unit</u>
Water Elevation	213	212.63	203.61	<i>Not Available</i>		ft msl
pH		5	5.2			pH
Sp. Conductance		225	223			uS/cm
Water temperature		29.7	22.2			deg. C
Alkalinity as CaCO ₃		0	0			mg/L
Turbidity		.4	2.2			NTU
Volumes purged						well volume
Sampling code	C	C	C			

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene			<10	U	<50	U			ug/L	
	1,1-Dichloroethane			<10	U	<50	U			ug/L	
	1,1-Dichloroethylene			4.83	J I	<50	U			ug/L	
	trans-1,2-Dichloroethylene			<10	U	<50	U			ug/L	
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane			<10	U	<50	U			ug/L	
	Tetrachloroethylene			718	L	906				ug/L	
	1,1,1-Trichloroethane			2.18	J I	<50	U			ug/L	
	Trichloroethylene			1030	L	1320				ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 9

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104099.8 E 50400	33.33822 Deg N -81.7363 Deg W	143 - 132.6 ft msl	380.6 ft msl	8 " CS	S	M
SAMPLE DATE	07/20/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	229.02	221.8	221.62	220.95	ft msl	
pH		5	5.2	5.3	pH	
Sp. Conductance		48	46	44	uS/cm	
Water temperature		24.7	21.5	19.1	deg. C	
Alkalinity as CaCO3		0	1	0	mg/L	
Turbidity		.2	.3	.6	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<5	U	<10	U	<1	JU Q	1	ug/L	ML
	1,1-Dichloroethane			<5	U	<10	U	<1	JU Q	1	ug/L	ML
	1,1-Dichloroethylene			<5	U	<10	U	<1	JU Q	1	ug/L	ML
	trans-1,2-Dichloroethylene			<5	U	<10	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<5	U	<10	U	<1	JU Q	1	ug/L	ML
	Tetrachloroethylene			5.27		5.42	J I	9.46	J Q	1	ug/L	ML
	1,1,1-Trichloroethane			<5	U	<10	U	<1	JU Q	1	ug/L	ML
	Trichloroethylene			130		145		212	J Q	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 10

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102000.9 E 48244.1	33.33006 Deg N -81.7379 Deg W	215.5 - 205.1 ft msl	355.5 ft msl	8" CS	S	M
SAMPLE DATE	07/19/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	188.8	190.5	193.43	191.2	ft msl	
pH	4.8	4.7	4.9	5	pH	
Sp. Conductance	79	81	82	77	uS/cm	
Water temperature	20.3	21.7	21.6	17.3	deg. C	
Alkalinity as CaCO ₃	0	0	0	1	mg/L	
Turbidity	.5	.2	1.2	.6	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethane	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	1,1-Dichloroethylene	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	trans-1,2-Dichloroethylene	<250	U	<250	U	<500	U				ug/L	
	PCB 1016	<1.05	U								ug/L	
	PCB 1221	<2.1	U								ug/L	
	PCB 1232	<1.05	U								ug/L	
	PCB 1242	<1.05	U								ug/L	
	PCB 1248	<1.05	U								ug/L	
	PCB 1254	<1.05	U								ug/L	
	PCB 1260	<1.05	U								ug/L	
	1,1,2,2-Tetrachloroethane	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	Tetrachloroethylene	7180		7610		7140		8950	J KQ	50	ug/L	ML
	1,1,1-Trichloroethane	<250	U	<250	U	<500	U	<50	JU Q	50	ug/L	ML
	Trichloroethylene	4560		4600		4150		5140	J KQ	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 11

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104875 E 50400.2	33.33994 Deg N -81.7379 Deg W	152.2 - 141.9 ft msl	383.3 ft msl	8 " CS	S	UNK

<u>SAMPLE DATE</u>	07/19/99	08/23/99	09/10/99	10/21/99
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FIELD DATA

<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>
Water Elevation	211.2	211.4	211.32	210.9	ft msl
pH	4.7	4.5	4.7	4.8	pH
Sp. Conductance	28	29	29	27	uS/cm
Water temperature	21.8	23.8	22.2	19.8	deg. C
Alkalinity as CaCO3	0	0	0	0	mg/L
Turbidity	.6	.2	.7	.5	NTU
Volumes purged					well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<50	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	Tetrachloroethylene	112		50.1		43.6	J I	51.9	J Q	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	Trichloroethylene	749		785		736		820	J Q	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 12

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.34780 Deg N -81.7362 Deg W	210.4 - 189.9 ft msl	359.4 ft msl	6" SS	S	UL/LL
SAMPLE DATE		07/20/99	08/23/99	09/10/99	10/21/99	
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	224.4	212.25	211.91	211.75	ft msl	
pH		4.6	4.6	4.8	pH	
Sp. Conductance		42	40	40	uS/cm	
Water temperature		20.3	20.5	18.7	deg. C	
Alkalinity as CaCO3		0	0	0	mg/L	
Turbidity		1	.6	.6	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene			<50	U	<125	U	<10	JU Q	10	ug/L	ML
	1,1-Dichloroethane			<50	U	<125	U	<10	JU Q	10	ug/L	ML
	1,1-Dichloroethylene			<50	U	<125	U	<10	JU Q	10	ug/L	ML
	trans-1,2-Dichloroethylene			<50	U	<125	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane			<50	U	<125	U	<10	JU Q	10	ug/L	ML
	Tetrachloroethylene			<50	U	<125	U	30.2	J Q	10	ug/L	ML
	1,1,1-Trichloroethane			<50	U	<125	U	<10	JU Q	10	ug/L	ML
	Trichloroethylene			1540		1420		3400	J Q	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 13B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.34708 Deg N -81.7315 Deg W	138.2 - 113 ft msl	336.2 ft msl	6 " CS		LL
SAMPLE DATE	07/19/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	202.2	202.09	201.69	202.7	ft msl	
pH	5	4.8	4.9	5	pH	
Sp. Conductance	21	22	21	20	uS/cm	
Water temperature	21.8	21.3	19.7	18.7	deg. C	
Alkalinity as CaCO3	0	0	0	1	mg/L	
Turbidity	1.8	.3	1.4	.3	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<25	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethane	<25	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethylene	<25	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	trans-1,2-Dichloroethylene	<25	U	<25	U	<50	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	Tetrachloroethylene	9.16	J I	7.83	J I	<50	U	8.9	J Q	5	ug/L	ML
	1,1,1-Trichloroethane	<25	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	Trichloroethylene	625		586		626		638	J Q	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 13C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105809.7 E 53502.2	33.34707 Deg N -81.7315 Deg W	173.4 - 153.3 ft msl	336.4 ft msl	6 " CS		UL
SAMPLE DATE		07/19/99	08/23/99	09/10/99	10/21/99	
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	208	207.41	207.28	207.23	ft msl	
pH	5	4.7	4.9	5	pH	
Sp. Conductance	30	31	30	30	uS/cm	
Water temperature	22.9	20.3	20.2	18.7	deg. C	
Alkalinity as CaCO3	0	0	0	1	mg/L	
Turbidity	.9	.5	1.7	.5	NTU	
Volumes purged		0			well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	<50	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	Tetrachloroethylene	24.4	J I	17.6	J I	14.3	J I	18.5	J KQ	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U	<50	U	<5	JU Q	5	ug/L	ML
	Trichloroethylene	934		912		887		929	J KQ	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106362.1 E 53044.7	33.34754 Deg N -81.7338 Deg W	148.5 - 123.2 ft msl	351.2 ft msl	6 " CS		LL
SAMPLE DATE	07/19/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	210.6	210	209.82	209.55	ft msl	
pH	4.9	4.6	4.9	4.9	pH	
Sp. Conductance	24	25	24	24	uS/cm	
Water temperature	21.2	24	20.5	19	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	2.9	.7	.4	.5	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethane	<50	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	1,1-Dichloroethylene	<50	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<25	U	<50	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	Tetrachloroethylene	<50	U	6.08	J I	<50	U	21.5	J Q	5	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<25	U	<50	U	<5	JU Q	5	ug/L	ML
	Trichloroethylene	748		704		712		717	J Q	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 14C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106380.8 E 53051.5	33.34760 Deg N -81.7338 Deg W	193.5 - 173.4 ft msl	351.4 ft msl	6 " CS		UL
SAMPLE DATE		07/19/99	08/23/99	09/10/99	10/21/99	
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	<i>Not Available</i>	202.69	<i>Not Available</i>	ft msl	
pH	5	4.9	5	5	pH	
Sp. Conductance	38	39	37	36	uS/cm	
Water temperature	22.5	22.8	21.5	19.4	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	1.7	.4	1.6	.4	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	1,1-Dichloroethane	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	1,1-Dichloroethylene	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	trans-1,2-Dichloroethylene	<125	U	<125	U	<125	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<125	U	<125	U	<125	U	<20	JU Q	20	ug/L	ML
	Tetrachloroethylene	<125	U	25.6	J I	<125	U	39.2	J Q	20	ug/L	ML
	1,1,1-Trichloroethane	51.4	J I	<125	U	25.9	J I	19.8	J IQ	20	ug/L	ML
	Trichloroethylene	3020		2730		3690		3610	J Q	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLPEPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

**Table D-5a. Groundwater Monitoring Results for Recovery Wells, July-October 1999 (Cont.)
WELL RWM 15B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107444.7 E 53849	33.35125 Deg N -81.7338 Deg W	150.9 - 125.8 ft msl	368.4 ft msl	6 " CS		LL
SAMPLE DATE	07/19/99	08/23/99	09/10/99	10/21/99		
FIELD DATA						
<u>Parameter</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>Unit</u>	
Water Elevation	207.9	207.52	207.33	207.7	ft msl	
pH	5.1	4.9	4.9	5	pH	
Sp. Conductance	21	22	21	21	uS/cm	
Water temperature	20.5	20.5	19.9	18.4	deg. C	
Alkalinity as CaCO3	1	0	0	1	mg/L	
Turbidity	.2	.1	.5	.5	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<5	U	<5	U	<1	JU Q	1	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<1	JU Q	1	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<1	JU Q	1	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<1	JU Q	1	ug/L	ML
	Tetrachloroethylene	<5	U	<5	U	<5	U	<1	JU Q	1	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<1	JU Q	1	ug/L	ML
	Trichloroethylene	25.3		22.3		23.6		23.2	J Q	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>JUL</u>	<u>CLP EPA</u>	<u>AUG</u>	<u>CLP EPA</u>	<u>SEP</u>	<u>CLP EPA</u>	<u>OCT</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are October 1999 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for October 1999.

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Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000
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>						
N 102599.1 E 48575.1	33.33193 Deg N -81.7382 Deg W	232.3 - 172.3 ft msl	364.7 ft msl	8 " CS	S	UNK						
SAMPLE DATE		11/17/99	12/13/99	01/19/00	02/16/00							
FIELD DATA												
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>							
Water Elevation	Not Available	Not Available	Not Available	Not Available	ft msl							
pH	4.2	5	4.7	4.7	pH							
Sp. Conductance	63	62	55	60	uS/cm							
Water temperature	11.7	18.4	14.1	16.1	deg. C							
Alkalinity as CaCO3	0	0	0	0	mg/L							
Turbidity	.5	.4	.5	1.2	NTU							
Volumes purged					well volume							
Sampling code	C	C	C	C								
ANALYTICAL DATA												
I. Groundwater Protection Standard												
261 Appendix VIII/264 Appendix IX Hazardous Constituents												
<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<200	JU LQ	<100	U	<50	U	<100	U	100	ug/L	ML
	1,1-Dichloroethane	<200	JU LQ	<100	U	<50	U	<100	U	100	ug/L	ML
	1,1-Dichloroethylene	<200	JU LQ	<100	U	<50	U	<100	U	100	ug/L	ML
	trans-1,2-Dichloroethylene	<200	JU LQ			<50	U	<100	U	100	ug/L	ML
	PCB 1016					1.08	R L				ug/L	
	PCB 1221					1.08	R L				ug/L	
	PCB 1232					1.08	R L				ug/L	
	PCB 1242					1.08	R L				ug/L	
	PCB 1248					1.08	R L				ug/L	
	PCB 1254					1.08	R L				ug/L	
	PCB 1260					1.08	R L				ug/L	
	1,1,2,2-Tetrachloroethane	<200	JU LQ	<100	U	<50	U	<100	U	100	ug/L	ML
+	Tetrachloroethylene	10900	J LQ	20500		4490		19900		100	ug/L	ML
	1,1,1-Trichloroethane	<200	JU LQ	<100	U	<50	U	<100	U	100	ug/L	ML
+	Trichloroethylene	16600	J LQ	25200		10500		23200		100	ug/L	ML
II. Monitoring Constituents												
<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 2**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104434.1 E 49205.5	33.33701 Deg N -81.7401 Deg W	208.3 - 198.3 ft msl	371.3 ft msl	8" UNKNOW	S	UNK
SAMPLE DATE		11/17/99	12/13/99	01/18/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	161.25	<i>Not Available</i>	<i>Not Available</i>	ft msl	
pH	4.6	4.8	4.7	4.6	pH	
Sp. Conductance	87	87	90	89	uS/cm	
Water temperature	17.5	19	15.5	15.9	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	.4	.9	.5	3.3	NTU	
Volumes purged					well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<100	JU LQ	<50	U	<50	U	<50	U	50	ug/L	ML
	1,1-Dichloroethane	<100	JU LQ	<50	U	<50	U	<50	U	50	ug/L	ML
	1,1-Dichloroethylene	<100	JU LQ	<50	U	<50	U	<50	U	50	ug/L	ML
	trans-1,2-Dichloroethylene	<100	JU LQ			<50	U	<50	U	50	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<100	JU LQ	<50	U	<50	U	<50	U	50	ug/L	ML
+	Tetrachloroethylene	8950	J LQ	12000		12800		13400		50	ug/L	ML
	1,1,1-Trichloroethane	<100	JU LQ	<50	U	<50	U	<50	U	50	ug/L	ML
+	Trichloroethylene	10700	J LQ	11400		12200		12100		50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 3**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104730.2 E 49680	33.33844 Deg N -81.7395 Deg W	214 - 204 ft msl	377 ft msl	8 " CS	S	UNK
SAMPLE DATE		11/17/99	12/13/99	01/18/00	02/16/00	
FIELD DATA						
<u>Parameter</u>		<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>
Water Elevation		<i>Not Available</i>	210.62	<i>Not Available</i>	<i>Not Available</i>	ft msl
pH		4.6	4.9	4.8	4.1	pH
Sp. Conductance		49	49	49	50	uS/cm
Water temperature		17	19.2	13.3	18.9	deg. C
Alkalinity as CaCO3		0	0	0	0	mg/L
Turbidity		.5	1.9	.4	.5	NTU
Volumes purged						well volume
Sampling code		C	C	C	C	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	2.03		<20	U	<20	U	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<20	U	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
+	Tetrachloroethylene	791	J Q	1040		1010		1040		20	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
+	Trichloroethylene	3300	J Q	3570		3580		3360		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 4**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N -81.7394 Deg W	139.9 - 129.5 ft msl	366.5 ft msl	8" CS	S	M/GC/UL/LL
SAMPLE DATE		11/17/99	12/13/99	01/18/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	205.5	205.6	207.25	205.6	ft msl	
pH	4.8	5.1	5.4	5	pH	
Sp. Conductance	23	23	24	23	uS/cm	
Water temperature	13.6	18.6	15.9	16.4	deg. C	
Alkalinity as CaCO3	0	1	1	0	mg/L	
Turbidity	.6	.4	.4	.6	NTU	
Volumes purged			.015		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<50	U	<50	U	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<1	U	<50	U	<50	U	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	1.17		<50	U	<50	U	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<50	U	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U	<50	U	<50	U	<20	U	20	ug/L	ML
+	Tetrachloroethylene	817	J Q	1080		1590		1100		20	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<50	U	<50	U	<20	U	20	ug/L	ML
+	Trichloroethylene	5370	J Q	6570		7380		6450		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 5**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N -81.7372 Deg W	144.3 - 133.9 ft msl	366.9 ft msl	8 " CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	11/17/99	12/13/99	01/18/00	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>
Water Elevation	209.6	210.06	211.14	209.9	ft msl
pH	4.9	5.1	5.1	4.6	pH
Sp. Conductance	29	28	28	29	uS/cm
Water temperature	17.5	19.3	16.4	17.8	deg. C
Alkalinity as CaCO3	0	1	1	0	mg/L
Turbidity	.6	.5	.4	.5	NTU
Volumes purged			.005		well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<10	U	<10	U	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<1	U	<10	U	<10	U	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	.736	J I	<10	U	<10	U	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<10	U	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U	<10	U	<10	U	<10	U	10	ug/L	ML
+	Tetrachloroethylene	438	J Q	598		569		647		10	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<10	U	<10	U	<10	U	10	ug/L	ML
+	Trichloroethylene	1340	J Q	1470		1360		1640		10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 6**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102001.5 E 50107.4	33.33311 Deg N -81.7330 Deg W	218.7 - 208.4 ft msl	349.1 ft msl	8" CS	S	M/GC/UL/LL
SAMPLE DATE		11/17/99	12/13/99	01/19/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	209	205.2	202.2	222.2	ft msl	
pH	4.9	5.2	5.1	4.7	pH	
Sp. Conductance	30	30	31	31	uS/cm	
Water temperature	15.5	19.2	16.9	18.9	deg. C	
Alkalinity as CaCO3	0	1	1	0	mg/L	
Turbidity	.5	.4	.4	.5	NTU	
Volumes purged			-.05		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<20	U	<20	U	20	ug/L	ML
	PCB 1016					1.04	R L				ug/L	
	PCB 1221					1.04	R L				ug/L	
	PCB 1232					1.04	R L				ug/L	
	PCB 1242					1.04	R L				ug/L	
	PCB 1248					1.04	R L				ug/L	
	PCB 1254					1.04	R L				ug/L	
	PCB 1260					1.04	R L				ug/L	
	1,1,2,2-Tetrachloroethane	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
+	Tetrachloroethylene	2090	J Q	2780		134		2950		20	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<20	U	<20	U	<20	U	20	ug/L	ML
+	Trichloroethylene	1840	J Q	2130		2470		2100		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 7**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N -81.7346 Deg W	154.2 - 144 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE	11/17/99	12/13/99	01/19/00	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>
Water Elevation	190.4	221.65	199.3	196.9	ft msl
pH	5		4.9	4.1	pH
Sp. Conductance	65		65	64	uS/cm
Water temperature	18		16.8	19.1	deg. C
Alkalinity as CaCO3	0		0	0	mg/L
Turbidity	.4		.5	.7	NTU
Volumes purged			-.05		well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U			<50	U	<50	U	50	ug/L	ML
	1,1-Dichloroethane	<1	U			<50	U	<50	U	50	ug/L	ML
	1,1-Dichloroethylene	3.58				<50	U	<50	U	50	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<50	U	<50	U	50	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U			<50	U	<50	U	50	ug/L	ML
+	Tetrachloroethylene	6790	J Q			164		9220		50	ug/L	ML
	1,1,1-Trichloroethane	.895	J I			<50	U	<50	U	50	ug/L	ML
+	Trichloroethylene	6590	J Q			8000		6730		50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 8**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101948.2 E 47353.3	33.32849 Deg N -81.7402 Deg W	119.7 - 109.3 ft msl	348.3 ft msl	8" CS	S	GC/UL/LL
SAMPLE DATE		12/13/99	01/18/00		02/16/00	
FIELD DATA						
<u>Parameter</u>		<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	212.49	213.38	202.85	ft msl	
pH				5.1	pH	
Sp. Conductance				173	uS/cm	
Water temperature				17.4	deg. C	
Alkalinity as CaCO ₃				0	mg/L	
Turbidity				.9	NTU	
Volumes purged			0		well volume	
Sampling code		C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene						<5	U	5	ug/L	ML
	1,1-Dichloroethane						<5	U	5	ug/L	ML
	1,1-Dichloroethylene						3.95	J I	5	ug/L	ML
	trans-1,2-Dichloroethylene						<5	U	5	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane						<5	U	5	ug/L	ML
+	Tetrachloroethylene						961		5	ug/L	ML
	1,1,1-Trichloroethane						<5	U	5	ug/L	ML
+	Trichloroethylene						1220		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 9**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>					
N 104099.8 E 50400	33.33822 Deg N -81.7363 Deg W	143 - 132.6 ft msl	380.6 ft msl	8 " CS	S	M					
SAMPLE DATE		12/13/99	01/19/00	02/16/00							
FIELD DATA											
<u>Parameter</u>		<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>						
Water Elevation	Not Available	228.23	Not Available	222.05	ft msl						
pH				5.3	pH						
Sp. Conductance				49	uS/cm						
Water temperature				18.2	deg. C						
Alkalinity as CaCO3				2	mg/L						
Turbidity				.6	NTU						
Volumes purged					well volume						
Sampling code		C	C	C							
ANALYTICAL DATA											
I. Groundwater Protection Standard											
261 Appendix VIII/264 Appendix IX Hazardous Constituents											
<u>ST</u>	<u>Parameter</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene						<1	U	1	ug/L	ML
	1,1-Dichloroethane						<1	U	1	ug/L	ML
	1,1-Dichloroethylene						<1	U	1	ug/L	ML
	trans-1,2-Dichloroethylene						<1	U	1	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane						<1	U	1	ug/L	ML
+	Tetrachloroethylene						9.69		1	ug/L	ML
	1,1,1-Trichloroethane						<1	U	1	ug/L	ML
+	Trichloroethylene						166		1	ug/L	ML
II. Monitoring Constituents											
<u>ST</u>	<u>Parameter</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 10**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102000.9 E 48244.1	33.33006 Deg N -81.7379 Deg W	215.5 - 205.1 ft msl	355.5 ft msl	8 " CS	S	M
SAMPLE DATE		11/17/99	12/13/99	01/18/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	190.1	189.99	195.9	216.5	ft msl	
pH	4.4	5.5	5.1		pH	
Sp. Conductance	81	80	124		uS/cm	
Water temperature	16.5	18.5	16.6		deg. C	
Alkalinity as CaCO3	0	1	2		mg/L	
Turbidity	.6	.5	.5		NTU	
Volumes purged			-.04		well volume	
Sampling code	C	C	C	CP		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	.657	J I	<50	U	<50	U				ug/L	
	1,1-Dichloroethane	.528	J I	<50	U	<50	U				ug/L	
	1,1-Dichloroethylene	2.86		<50	U	<50	U				ug/L	
	trans-1,2-Dichloroethylene	<1	U			<50	U				ug/L	
	PCB 1016					<1	U				ug/L	
	PCB 1221					<1	U				ug/L	
	PCB 1232					<1	U				ug/L	
	PCB 1242					<1	U				ug/L	
	PCB 1248					<1	U				ug/L	
	PCB 1254					<1	U				ug/L	
	PCB 1260					<1	U				ug/L	
	1,1,2,2-Tetrachloroethane	.938	J I	<50	U	<50	U				ug/L	
	Tetrachloroethylene	6760	J Q	9360		16800					ug/L	
	1,1,1-Trichloroethane	<1	U	<50	U	<50	U				ug/L	
	Trichloroethylene	4730	J Q	5700		4180					ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 11**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104875 E 50400.2	33.33994 Deg N -81.7379 Deg W	152.2 - 141.9 ft msl	383.3 ft msl	8 " CS	S	UNK
SAMPLE DATE	11/17/99	12/13/99	01/19/00	02/16/00		
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	212.1	210.37	211.57	225.02	ft msl	
pH	4.7	4.9	4.9		pH	
Sp. Conductance	29	28	28		uS/cm	
Water temperature	17.6	19.7	18.3		deg. C	
Alkalinity as CaCO3	0	0	0		mg/L	
Turbidity	.5	.6	.5		NTU	
Volumes purged			.061		well volume	
Sampling code	C	C	C	CP		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	JU LQ	<5	U	<5	U				ug/L	
	1,1-Dichloroethane	<1	JU LQ	<5	U	<5	U				ug/L	
	1,1-Dichloroethylene	<1	JU LQ	<5	U	<5	U				ug/L	
	trans-1,2-Dichloroethylene	<1	JU LQ			<5	U				ug/L	
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	JU LQ	<5	U	<5	U				ug/L	
	Tetrachloroethylene	40.3	J LQ	55.3		8.37					ug/L	
	1,1,1-Trichloroethane	<1	JU LQ	<5	U	<5	U				ug/L	
	Trichloroethylene	801	J LQ	835		890					ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 12**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.34780 Deg N -81.7362 Deg W	210.4 - 189.9 ft msl	359.4 ft msl	6" SS	S	UL/LL
SAMPLE DATE		11/30/99	12/14/99	01/19/00	02/17/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	211.4	211.69	211.49	211.28	ft msl	
pH	4.9	5	4.8	4.7	pH	
Sp. Conductance	40	41	41	42	uS/cm	
Water temperature	18.3	16.9	15.5	18	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	.6	.5	.9	.5	NTU	
Volumes purged			.031		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<10	U	<20	U	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<1	U	<10	U	<20	U	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<1	U	<10	U	<20	U	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<20	U	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U	<10	U	<20	U	<10	U	10	ug/L	ML
	Tetrachloroethylene	9.52	J K	16.3		<20	U	7.8	J I	10	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<10	U	<20	U	<10	U	10	ug/L	ML
+	Trichloroethylene	1530	J K	1880		2000		2280		10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 13B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.34708 Deg N -81.7315 Deg W	138.2 - 113 ft msl	336.2 ft msl	6 " CS		LL
SAMPLE DATE		11/17/99	12/14/99	01/19/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	202.2	201.87	201.36	201.3	ft msl	
pH	4.9	5.2	5.2	5	pH	
Sp. Conductance	21	20	20	21	uS/cm	
Water temperature	17.5	17.7	17.2	19.1	deg. C	
Alkalinity as CaCO3	0	1	1	0	mg/L	
Turbidity	.4	.8	.5	.9	NTU	
Volumes purged			.008		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	JU Q	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<1	JU Q	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<1	JU Q	<5	U	<5	U	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<1	JU Q			<5	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	JU Q	<5	U	<5	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene	6.49	J Q	9.7		<5	U	12.2		5	ug/L	ML
	1,1,1-Trichloroethane	<1	JU Q	<5	U	<5	U	<5	U	5	ug/L	ML
+	Trichloroethylene	575	J Q	599		613		671		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 13C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105809.7 E 53502.2	33.34707 Deg N -81.7315 Deg W	173.4 - 153.3 ft msl	336.4 ft msl	6" CS		UL
SAMPLE DATE		11/17/99	12/14/99	01/19/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	206.6	207.21	207.13	206.91	ft msl	
pH	4.9	5.1	5.1	4.9	pH	
Sp. Conductance	31	30	30	31	uS/cm	
Water temperature	18	17.4	17.9	18.9	deg. C	
Alkalinity as CaCO3	0	1	1	0	mg/L	
Turbidity	.3	.4	.5	.8	NTU	
Volumes purged			.013		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	JU LQ	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<50	JU LQ	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<50	JU LQ	<5	U	<5	U	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<50	JU LQ			<5	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	JU LQ	<5	U	<5	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene	<50	JU LQ	20.7		2.77	J I	23.3		5	ug/L	ML
	1,1,1-Trichloroethane	<50	JU LQ	<5	U	<5	U	<5	U	5	ug/L	ML
+	Trichloroethylene	847	J LQ	882		950		993		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLPEPA</u>	<u>FEB</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 14B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106362.1 E 53044.7	33.34754 Deg N -81.7338 Deg W	148.5 - 123.2 ft msl	351.2 ft msl	6 " CS		LL
SAMPLE DATE		11/30/99	12/14/99	01/19/00	02/17/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	209.55	209.8	209.73	209.57	ft msl	
pH	5.1	5.1	4.5	4.5	pH	
Sp. Conductance	24	24	24	25	uS/cm	
Water temperature	16.7	16.3	15.8	17.8	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	.3	.4	.4	.4	NTU	
Volumes purged			.008		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	U	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<1	U	<5	U	<5	U	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	<1	U	<5	U	<5	U	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U			<5	U	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	U	<5	U	<5	U	<5	U	5	ug/L	ML
+	Tetrachloroethylene	7.37	J K	8.55		<5	U	5.95		5	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<5	U	<5	U	<5	U	5	ug/L	ML
+	Trichloroethylene	687	J K	703		737		783		5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 14C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106380.8 E 53051.5	33.34760 Deg N -81.7338 Deg W	193.5 - 173.4 ft msl	351.4 ft msl	6" CS		UL
SAMPLE DATE		11/30/99	12/14/99	01/19/00	02/17/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	232.7	202.72	202.64	202.35	ft msl	
pH	5.1	5.1	4.9	4.8	pH	
Sp. Conductance	37	37	37	38	uS/cm	
Water temperature	17.1	16.6	16.9	17.8	deg. C	
Alkalinity as CaCO3	0	0	0	0	mg/L	
Turbidity	1.4	.4	.4	.4	NTU	
Volumes purged			.023		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<200	U	<20	U	<20	U	<20	JU L	20	ug/L	ML
	1,1-Dichloroethane	<200	U	<20	U	<20	U	<20	JU L	20	ug/L	ML
	1,1-Dichloroethylene	<200	U	<20	U	<20	U	<20	JU L	20	ug/L	ML
	trans-1,2-Dichloroethylene	<200	U			<20	U	<20	JU L	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<200	U	<20	U	<20	U	<20	JU L	20	ug/L	ML
	Tetrachloroethylene	<200	U	40.8		<20	U	22.2	J L	20	ug/L	ML
	1,1,1-Trichloroethane	<200	U	24.4		<20	U	<20	JU L	20	ug/L	ML
	Trichloroethylene	2500		3780		4150		4070	J L	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

**Table D-5b. Groundwater Monitoring Results for Recovery Wells, November 1999-February 2000 (Cont.)
WELL RWM 15B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107444.7 E 53849	33.35125 Deg N -81.7338 Deg W	150.9 - 125.8 ft msl	368.4 ft msl	6 " CS		LL
SAMPLE DATE		11/17/99	12/13/99	01/19/00	02/16/00	
FIELD DATA						
<u>Parameter</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>Unit</u>	
Water Elevation	207.4	207.5	207.4	207.15	ft msl	
pH	5	5.2	5.2	5	pH	
Sp. Conductance	23	21	21	22	uS/cm	
Water temperature	18	18.7	17.1	18.5	deg. C	
Alkalinity as CaCO3	0	1	1	0	mg/L	
Turbidity	.4	.6	.4	1.2	NTU	
Volumes purged			.008		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<1	JU Q	<1	U	<1	U	<1	U	1	ug/L	ML
	1,1-Dichloroethane	<1	JU Q	<1	U	<1	U	<1	U	1	ug/L	ML
	1,1-Dichloroethylene	<1	JU Q	<1	U	<1	U	<1	U	1	ug/L	ML
	trans-1,2-Dichloroethylene	<1	JU Q			<1	U	<1	U	1	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<1	JU Q	<1	U	<1	U	<1	U	1	ug/L	ML
	Tetrachloroethylene	<1	JU Q	<1	U	<1	U	<1	U	1	ug/L	ML
	1,1,1-Trichloroethane	<1	JU Q	<1	U	<1	U	<1	U	1	ug/L	ML
+	Trichloroethylene	20.9	J Q	23.7		25.5		23.4		1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>NOV</u>	<u>CLP EPA</u>	<u>DEC</u>	<u>CLP EPA</u>	<u>JAN</u>	<u>CLP EPA</u>	<u>FEB</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are February 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for February 2000.

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Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000
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>
N 102599.1 E 48575.1	33.33193 Deg N -81.7382 Deg W	232.3 - 172.3 ft msl	364.7 ft msl	8 " CS	S	UNK
SAMPLE DATE		03/22/00	04/25/00		06/02/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	185.53	365.8	<i>Not Available</i>	<i>Not Available</i>	ft msl	
pH	4.9	4.6		4.9	pH	
Sp. Conductance	60	61		54	uS/cm	
Water temperature	20.6	18.5		22.9	deg. C	
Alkalinity as CaCO3	0	0		0	mg/L	
Turbidity	.4	.5		.4	NTU	
Volumes purged	.031	0			well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<100	JU	<100	U		<100	U L	100	ug/L	ML
	1,1-Dichloroethane	<100	JU	<100	U		<100	U L	100	ug/L	ML
	1,1-Dichloroethylene	<100	JU	<100	U		<100	U L	100	ug/L	ML
	trans-1,2-Dichloroethylene	<100	JU	<100	U		<100	U L	100	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<100	JU	<100	U		<100	U L	100	ug/L	ML
+	Tetrachloroethylene	17800	J	22900			18500	J L	100	ug/L	ML
	1,1,1-Trichloroethane	<100	JU	<100	U		<100	U L	100	ug/L	ML
+	Trichloroethylene	32900	J	29000			21900	J L	100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)

WELL RWM 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104434.1 E 49205.5	33.33701 Deg N -81.7401 Deg W	208.3 - 198.3 ft msl	371.3 ft msl	8 " UNKNOW	S	UNK

SAMPLE DATE	03/22/00	04/25/00	06/02/00
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FIELD DATA

<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>JUN</u>	<u>Unit</u>
Water Elevation	<i>Not Available</i>	371.3	<i>Not Available</i>	ft msl
pH	4.7	4.3	4.8	pH
Sp. Conductance	86	87	81	uS/cm
Water temperature	21.3	19	22.9	deg. C
Alkalinity as CaCO3	0	1	0	mg/L
Turbidity	.4	.6	.8	NTU
Volumes purged		0		well volume
Sampling code	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<50	JU	<100	U		<500	JU	100	ug/L	EX
	1,1-Dichloroethane	<50	JU	<100	U		<500	JU	100	ug/L	EX
	1,1-Dichloroethylene	<50	JU	<100	U		<500	JU	100	ug/L	EX
	trans-1,2-Dichloroethylene	<50	JU	<100	U		<500	JU	100	ug/L	EX
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<50	JU	<100	U		<500	JU	100	ug/L	EX
	Tetrachloroethylene	11500	J	14200			12600	J L	50	ug/L	ML
	1,1,1-Trichloroethane	<50	JU	<100	U		<500	JU	100	ug/L	EX
	Trichloroethylene	14200	J	15400			8740	J L	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 3

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104730.2 E 49680	33.33844 Deg N -81.7395 Deg W	214 - 204 ft msl	377 ft msl	8 " CS	S	UNK
SAMPLE DATE		03/21/00	04/25/00	05/25/00	06/19/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>Unit</u>	
Water Elevation	<i>Not Available</i>	378.1	<i>Not Available</i>	<i>Not Available</i>	ft msl	
pH	4.9	4.6	4.9	6.3	pH	
Sp. Conductance	48	48	49	48	uS/cm	
Water temperature	21.2	18.9	23.7	23.5	deg. C	
Alkalinity as CaCO3	0	1	0	0	mg/L	
Turbidity	.8	.6	.6	3.6	NTU	
Volumes purged		0			well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<20	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<20	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<20	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<20	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<20	U	<10	U	<20	JU	<20	U	20	ug/L	ML
+	Tetrachloroethylene	820		811	J K	823	J	788		20	ug/L	ML
	1,1,1-Trichloroethane	<20	U	<10	U	<20	JU	<20	U	20	ug/L	ML
+	Trichloroethylene	4020		2920	J K	3340	J	3080		20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)

WELL RWM 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N -81.7394 Deg W	139.9 - 129.5 ft msl	366.5 ft msl	8" CS	S	M/GC/UL/LL

<u>SAMPLE DATE</u>	03/21/00	04/25/00	05/25/00	06/19/00
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FIELD DATA

<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>Unit</u>
Water Elevation	207.14	205.4	204.46	Not Available	ft msl
pH	5.1	4.9	5.1	6.5	pH
Sp. Conductance	23	23	24	22	uS/cm
Water temperature	20.8	18.4	23.2	24	deg. C
Alkalinity as CaCO3	2	1	0	3	mg/L
Turbidity	.6	.4	.8	.7	NTU
Volumes purged	.005	0	.005		well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA

I. Groundwater Protection Standard

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<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<50	JU	<20	U	<50	JU	<50	U	50	ug/L	ML
	1,1-Dichloroethane	<50	JU	<20	U	<50	JU	<50	U	50	ug/L	ML
	1,1-Dichloroethylene	<50	JU	<20	U	<50	JU	1.3	J IL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<50	JU	<20	U	<50	JU	<50	U	50	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<50	JU	<20	U	<50	JU	<50	U	50	ug/L	ML
+	Tetrachloroethylene	1510	J	1070		1000	J	1200		50	ug/L	ML
	1,1,1-Trichloroethane	<50	JU	<20	U	<50	JU	<50	U	50	ug/L	ML
+	Trichloroethylene	8700	J	6090		6690	J	7100		50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103502.2 E 49628	33.33564 Deg N -81.7372 Deg W	144.3 - 133.9 ft msl	366.9 ft msl	8 " CS	S	M/GC/UL/LL
SAMPLE DATE	03/21/00	04/25/00	05/25/00	06/19/00		
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>Unit</u>	
Water Elevation	209.76	209.45	208.68	208.45	ft msl	
pH	5.2	4.6	5.2	6.6	pH	
Sp. Conductance	28	33	32	28	uS/cm	
Water temperature	20.8	19	23.8	23.3	deg. C	
Alkalinity as CaCO3	0	0	0	1	mg/L	
Turbidity	.5	.6	.9	.9	NTU	
Volumes purged	.176	0	.353		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<10	U	<10	JU	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<5	U	<10	U	<10	JU	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<5	U	<10	U	<10	JU	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<10	U	<10	JU	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<10	U	<10	JU	<10	U	10	ug/L	ML
	Tetrachloroethylene	524		523		574	J	585	J K	10	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<10	U	<10	JU	<10	U	10	ug/L	ML
	Trichloroethylene	1680		1530		1690	J	1550	J K	10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLP EPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)

WELL RWM 6

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102001.5 E 50107.4	33.33311 Deg N -81.7330 Deg W	218.7 - 208.4 ft msl	349.1 ft msl	8" CS	S	M/GC/UL/LL
SAMPLE DATE		03/21/00	04/25/00	05/25/00	06/19/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>Unit</u>	
Water Elevation	185.31	168.84	207.2	169.15	ft msl	
pH	5.2	4.4	5.3	6.6	pH	
Sp. Conductance	31	30	30	29	uS/cm	
Water temperature	20.8	19.3	23.5	23.9	deg. C	
Alkalinity as CaCO ₃	1	1	0	3	mg/L	
Turbidity	.5	.9	.7	1.1	NTU	
Volumes purged	-.02	0	.006		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<10	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethane	<10	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<10	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<10	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<10	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	Tetrachloroethylene	3110		2960		2520	J	2600	J K	20	ug/L	ML
	1,1,1-Trichloroethane	<10	U	<10	U	<20	JU	<20	U	20	ug/L	ML
	Trichloroethylene	2730		2480		1780	J	1980	J K	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

**Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 7**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101904.6 E 49449.5	33.33182 Deg N -81.7346 Deg W	154.2 - 144 ft msl	349 ft msl	8 " CS	S	M/GC/UL/LL
SAMPLE DATE	03/22/00	04/25/00		06/02/00		
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	196.42	195.29	<i>Not Available</i>	198.28	ft msl	
pH	4.9	4		5.5	pH	
Sp. Conductance	62	63		66	uS/cm	
Water temperature	20.8	18.8		23.3	deg. C	
Alkalinity as CaCO ₃	0	0		0	mg/L	
Turbidity	.5	.6		.3	NTU	
Volumes purged	-.04	0		.012	well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<50	U	<50	U		<50	U L	50	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U		<50	U L	50	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U		<50	U L	50	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U		<50	U L	50	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<50	U	<50	U		<50	U L	50	ug/L	ML
	Tetrachloroethylene	9740	J K	9770			9590	J L	50	ug/L	ML
	1,1,1-Trichloroethane	<50	U	<50	U		<50	U L	50	ug/L	ML
	Trichloroethylene	8500	J K	8150			7130	J L	50	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

**Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 8**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101948.2 E 47353.3	33.32849 Deg N -81.7402 Deg W	119.7 - 109.3 ft msl	348.3 ft msl	8 " CS	S	GC/UL/LL

<u>SAMPLE DATE</u>	03/21/00	04/25/00	05/25/00	06/19/00
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FIELD DATA

<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>Unit</u>
Water Elevation	203.59	202.87	202	201.79	ft msl
pH	5.2	4.8	5.2	6.5	pH
Sp. Conductance	184	115	106	97	uS/cm
Water temperature	21.6	18.4	23.9	24.9	deg. C
Alkalinity as CaCO3	2	1	0	4	mg/L
Turbidity	.4	.4	1.7	4.3	NTU
Volumes purged	.004	0	.004		well volume
Sampling code	C	C	C	C	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	U	<5	U	<10	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U	<10	JU L	<5	U	5	ug/L	ML
	1,1-Dichloroethylene	4.85	J I	6.85		<10	JU L	<5	U	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U	<10	JU L	<5	U	5	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<10	JU L	<5	U	5	ug/L	ML
	Tetrachloroethylene	734		1020		466	J L	431	J K	5	ug/L	ML
	1,1,1-Trichloroethane	<5	U	2.35	J I	<10	JU L	<5	U	5	ug/L	ML
	Trichloroethylene	1280		1660		786	J L	743	J K	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 9

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104099.8 E 50400	33.33822 Deg N -81.7363 Deg W	143 - 132.6 ft msl	380.6 ft msl	8 " CS	S	M
SAMPLE DATE		03/21/00	04/25/00		06/19/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	220.74	219.45	<i>Not Available</i>	217.78	ft msl	
pH	5.5	4.7		6.7	pH	
Sp. Conductance	46	46		44	uS/cm	
Water temperature	20.9	18.6		22.8	deg. C	
Alkalinity as CaCO3	3	2		2	mg/L	
Turbidity	.5	.5		.5	NTU	
Volumes purged	.041	0			well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<1	U	<1	U		<1	U L	1	ug/L	ML
	1,1-Dichloroethane	<1	U	<1	U		<1	U L	1	ug/L	ML
	1,1-Dichloroethylene	<1	U	<1	U		<1	U L	1	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U	<1	U		<1	U L	1	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<1	U	<1	U		<1	U L	1	ug/L	ML
	Tetrachloroethylene	7.47		6			13	J L	1	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<1	U		<1	U L	1	ug/L	ML
	Trichloroethylene	172		120			211	J L	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 10

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102000.9 E 48244.1	33.33006 Deg N -81.7379 Deg W	215.5 - 205.1 ft msl	355.5 ft msl	8 " CS	S	M

<u>SAMPLE DATE</u>	03/23/00	04/25/00	06/02/00
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FIELD DATA

<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>
Water Elevation	195.48	196.84	<i>Not Available</i>	197.09	ft msl
pH	5.1	4.6		5.2	pH
Sp. Conductance	85	106		113	uS/cm
Water temperature	17.7	18.3		22.9	deg. C
Alkalinity as CaCO3	0	2		0	mg/L
Turbidity	1	.7		.4	NTU
Volumes purged	-.03	0		-.04	well volume
Sampling code	C	C		C	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<20	U	<100	U		<100	U L	100	ug/L	ML
	1,1-Dichloroethane	<20	U	<100	U		<100	U L	100	ug/L	ML
	1,1-Dichloroethylene	<20	U	<100	U		<100	U L	100	ug/L	ML
	trans-1,2-Dichloroethylene	<20	U	<100	U		<100	U L	100	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<20	U	<100	U		<100	U L	100	ug/L	ML
+	Tetrachloroethylene	9030	J K	15500			24400	J L	100	ug/L	ML
	1,1,1-Trichloroethane	<20	U	<100	U		<100	U L	100	ug/L	ML
+	Trichloroethylene	5220	J K	7530			6540	J L	100	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

**Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 11**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104875 E 50400.2	33.33994 Deg N -81.7379 Deg W	152.2 - 141.9 ft msl	383.3 ft msl	8 " CS	S	UNK
SAMPLE DATE		03/23/00	04/25/00		06/02/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	210.71	210.45	<i>Not Available</i>	210.79	ft msl	
pH	4.8	4.5		5.2	pH	
Sp. Conductance	28	28		29	uS/cm	
Water temperature	18.6	19.4		22.7	deg. C	
Alkalinity as CaCO3	0	0		0	mg/L	
Turbidity	.5	.4		.4	NTU	
Volumes purged	.018	0		.006	well volume	
Sampling code	C	C		C		

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<5	U	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U		<5	U L	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U		<5	U L	5	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<5	U	<5	U		<5	U L	5	ug/L	ML
+	Tetrachloroethylene	24.6	J K	51.1			48.3	J L	5	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U		<5	U L	5	ug/L	ML
+	Trichloroethylene	177	J K	749			751	J L	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 12

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106879.2 E 52500.1	33.34780 Deg N -81.7362 Deg W	210.4 - 189.9 ft msl	359.4 ft msl	6" SS	S	UL/LL
SAMPLE DATE		03/22/00	04/26/00	05/31/00	06/21/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>Unit</u>	
Water Elevation	210.89	<i>Not Available</i>	210.35	<i>Not Available</i>	ft msl	
pH	4.9	4	6.5	5.8	pH	
Sp. Conductance	39	41	41	41	uS/cm	
Water temperature	20.9	17.2	19.7	22.5	deg. C	
Alkalinity as CaCO ₃	0	0	0	0	mg/L	
Turbidity	.4	1.4	.3	.5	NTU	
Volumes purged	.013		.013		well volume	
Sampling code	C	C	C	C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Barium, total recoverable											
	Cyanide											
	Lead, total recoverable											
	Nickel, total recoverable											
	Selenium, total recoverable											
Organics												
	Chlorobenzene	<5	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	1,1-Dichloroethane	<5	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	1,1-Dichloroethylene	<5	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	trans-1,2-Dichloroethylene	<5	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
	PCB 1016											
	PCB 1221											
	PCB 1232											
	PCB 1242											
	PCB 1248											
	PCB 1254											
	PCB 1260											
	1,1,2,2-Tetrachloroethane	<5	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
+	Tetrachloroethylene	9.35	J	38.8	J K	12	J L	10.6		10	ug/L	ML
	1,1,1-Trichloroethane	<5	JU	<10	U	<10	JU L	<10	U	10	ug/L	ML
+	Trichloroethylene	2100	J	1760	J K	1800	J L	1860		10	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>MAY</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLP EPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics												
	Aluminum, total recoverable											
	Nitrate-nitrite as nitrogen											
	Sodium, total recoverable											
	Sulfate											
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
 + = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

**Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 13B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.34708 Deg N -81.7315 Deg W	138.2 - 113 ft msl	336.2 ft msl	6 " CS		LL
SAMPLE DATE		03/23/00	04/25/00		06/01/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	200.42	200.05	<i>Not Available</i>	199.97	ft msl	
pH	5.1	5		5.5	pH	
Sp. Conductance	22	20		20	uS/cm	
Water temperature	17.5	18.6		20.4	deg. C	
Alkalinity as CaCO ₃	1	1		0	mg/L	
Turbidity	.4	.6		.4	NTU	
Volumes purged	.008	0		.008	well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<2	U	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethane	<2	U	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethylene	<2	U	<5	U		<5	U L	5	ug/L	ML
	trans-1,2-Dichloroethylene	<2	U	<5	U		<5	U L	5	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<2	U	<5	U		<5	U L	5	ug/L	ML
+	Tetrachloroethylene	6.4	J K	8.35			9.9	J L	5	ug/L	ML
	1,1,1-Trichloroethane	<2	U	<5	U		<5	U L	5	ug/L	ML
+	Trichloroethylene	579	J K	622			568	J L	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 13C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105809.7 E 53502.2	33.34707 Deg N -81.7315 Deg W	173.4 - 153.3 ft msl	336.4 ft msl	6 " CS		UL

SAMPLE DATE	03/23/00	04/25/00	06/01/00
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FIELD DATA

<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>
Water Elevation	206.6	206.55	<i>Not Available</i>	205.99	ft msl
pH	5.4	4.9		5.4	pH
Sp. Conductance	29	30		30	uS/cm
Water temperature	17.3	18.9		21.6	deg. C
Alkalinity as CaCO3	1	1		0	mg/L
Turbidity	.3	.8		.4	NTU
Volumes purged	.013	0			well volume
Sampling code	C	C		C	

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<5	U	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethane	<5	U	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethylene	<5	U	<5	U		<5	U L	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	U	<5	U		<5	U L	5	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<5	U	<5	U		<5	U L	5	ug/L	ML
	Tetrachloroethylene	12.7	J K	19.7			19	J L	5	ug/L	ML
	1,1,1-Trichloroethane	<5	U	<5	U		<5	U L	5	ug/L	ML
	Trichloroethylene	739	J K	873			737	J L	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 14B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106362.1 E 53044.7	33.34754 Deg N -81.7338 Deg W	148.5 - 123.2 ft msl	351.2 ft msl	6 " CS		LL
SAMPLE DATE		03/22/00	04/26/00		06/01/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	209.2	155.24	<i>Not Available</i>	208.46	ft msl	
pH	5.1	3.8		6.2	pH	
Sp. Conductance	23	23		25	uS/cm	
Water temperature	19.8	17		19.5	deg. C	
Alkalinity as CaCO3	1	0		0	mg/L	
Turbidity	.3	1.2		1	NTU	
Volumes purged	.008	0		.008	well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<5	JU	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethane	<5	JU	<5	U		<5	U L	5	ug/L	ML
	1,1-Dichloroethylene	<5	JU	<5	U		<5	U L	5	ug/L	ML
	trans-1,2-Dichloroethylene	<5	JU	<5	U		<5	U L	5	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<5	JU	<5	U		<5	U L	5	ug/L	ML
+	Tetrachloroethylene	6.05	J	20.8	J K		8.75	J L	5	ug/L	ML
	1,1,1-Trichloroethane	<5	JU	<5	U		<5	U L	5	ug/L	ML
+	Trichloroethylene	711	J	660	J K		655	J L	5	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 14C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106380.8 E 53051.5	33.34760 Deg N -81.7338 Deg W	193.5 - 173.4 ft msl	351.4 ft msl	6" CS		UL
SAMPLE DATE		03/22/00	04/26/00		06/01/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	202.2	201.7	<i>Not Available</i>	<i>Not Available</i>	ft msl	
pH	5.1	4		5.6	pH	
Sp. Conductance	35	35		36	uS/cm	
Water temperature	19.4	17.4		19.5	deg. C	
Alkalinity as CaCO3	1	1		0	mg/L	
Turbidity	.5	.6		1.5	NTU	
Volumes purged	.024	0			well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<20	JU	<20	U		<20	U	20	ug/L	ML
	1,1-Dichloroethane	<20	JU	<20	U		<20	U	20	ug/L	ML
	1,1-Dichloroethylene	<20	JU	<20	U		<20	U	20	ug/L	ML
	trans-1,2-Dichloroethylene	<20	JU	<20	U		<20	U	20	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<20	JU	<20	U		<20	U	20	ug/L	ML
+	Tetrachloroethylene	31	J	81			31.6	J	20	ug/L	ML
	1,1,1-Trichloroethane	<20	JU	13.4	J I		<20	JU I	20	ug/L	ML
+	Trichloroethylene	5640	J	3640			3570	J	20	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

**Table D-5c. Groundwater Monitoring Results for Recovery Wells, March-June 2000 (Cont.)
WELL RWM 15B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107444.7 E 53849	33.35125 Deg N -81.7338 Deg W	150.9 - 125.8 ft msl	368.4 ft msl	6 " CS		LL
SAMPLE DATE		03/23/00	04/25/00		06/01/00	
FIELD DATA						
<u>Parameter</u>	<u>MAR</u>	<u>APR</u>		<u>JUN</u>	<u>Unit</u>	
Water Elevation	206.9	206.75	<i>Not Available</i>	206.44	ft msl	
pH	5.2	5.1		5.4	pH	
Sp. Conductance	21	21		21	uS/cm	
Water temperature	16.6	18.6		23	deg. C	
Alkalinity as CaCO3	1	1		0	mg/L	
Turbidity	.4	.7		.4	NTU	
Volumes purged	.008	0		.008	well volume	
Sampling code	C	C		C		

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Barium, total recoverable										
	Cyanide										
	Lead, total recoverable										
	Nickel, total recoverable										
	Selenium, total recoverable										
Organics											
	Chlorobenzene	<1	U	<1	U		<1	U L	1	ug/L	ML
	1,1-Dichloroethane	<1	U	<1	U		<1	U L	1	ug/L	ML
	1,1-Dichloroethylene	<1	U	<1	U		<1	U L	1	ug/L	ML
	trans-1,2-Dichloroethylene	<1	U	<1	U		<1	U L	1	ug/L	ML
	PCB 1016										
	PCB 1221										
	PCB 1232										
	PCB 1242										
	PCB 1248										
	PCB 1254										
	PCB 1260										
	1,1,2,2-Tetrachloroethane	<1	U	<1	U		<1	U L	1	ug/L	ML
	Tetrachloroethylene	<1	U	<1	U		<1	U L	1	ug/L	ML
	1,1,1-Trichloroethane	<1	U	<1	U		<1	U L	1	ug/L	ML
	Trichloroethylene	20.7	J K	22.1			21.9	J L	1	ug/L	ML

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>MAR</u>	<u>CLP EPA</u>	<u>APR</u>	<u>CLP EPA</u>	<u>CLPEPA</u>	<u>JUN</u>	<u>CLPEPA</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics											
	Aluminum, total recoverable										
	Nitrate-nitrite as nitrogen										
	Sodium, total recoverable										
	Sulfate										
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. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors and Laboratory Data are June 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for June 2000.

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**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF
WELL AMB 4A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104131.6 E 51469.8	33.34004 Deg N -81.7336 Deg W	126.3 - 121.3 ft msl	380.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/24/98	03/16/99	09/22/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.68	219.02	214.72	217.3	ft msl
pH	5.4	5.7	6.1	5.9	pH
Sp. Conductance	45	35	32	34	uS/cm
Water temperature	20.3	19.9	19.2	18.8	deg. C
Alkalinity as CaCO3	10	12	1	4	mg/L
Turbidity	3.6	2.3	1.5	1.6	NTU
Volumes purged	.048	2.64	2.62	2.45	well volume
Sampling code	NX				
Synchronous water level	216.7 (09/24/98)	217.5 (03/29/99)	217.7 (09/22/99)	217.2 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.7		5.9		5.4		<6.16	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<6.24	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	1,1-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
+	Tetrachloroethylene	64.6		73.1		58.5		62		> 5	5	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<25	U	<25	U	<25	U	< EQL	5	ug/L	EX
+	Trichloroethylene	439		526		429		380		> 5	5	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	55.7	J	44.7	J I	17.8	J I	42.9	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	953		965		899		895		< 2400	5	ug/L	EX
	Sodium, total recoverable	2320		2080		2030		2290		< 4600	1	ug/L	EX
	Sulfate	784	J	691		616		838		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.05		.05	U	.0121	U	.451	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	6.6	J	.96	U	.357	U	.759	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.13	UI	.1	U	0	U	.053	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 4D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104154.7 E 51489	33.34012 Deg N -81.7336 Deg W	233.4 - 213.4 ft msl	380.3 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/24/98	03/16/99	09/22/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.53	231.12	229.9	229.72	ft msl
pH	4.9	4.9	5.4	5.3	pH
Sp. Conductance	48	33	28	29	uS/cm
Water temperature	19.8	20.8	19.5	19.4	deg. C
Alkalinity as CaCO3	2	2	1	3	mg/L
Turbidity	13.2	1.5	1.2	.8	NTU
Volumes purged	.267	2.24	4.25	2.71	well volume
Sampling code	NX				
Synchronous water level	230.5 (09/24/98)	232.4 (03/29/99)	230.5 (09/22/99)	229.6 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.7		6.5		4.9		<4.42	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	2.16	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	6	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	2.8	J	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	PCB 1016							<.97	U	< EQL	.970	ug/L	EX
	PCB 1221							<.97	U	< EQL	.970	ug/L	EX
	PCB 1232							<.97	U	< EQL	.970	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.970	ug/L	EX
	PCB 1248							<.97	U	< EQL	.970	ug/L	EX
	PCB 1254							<.97	U	< EQL	.970	ug/L	EX
	PCB 1260							<.97	U	< EQL	.970	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	Tetrachloroethylene	1.89	J	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	JU L	< EQL	1	ug/L	EX
	Trichloroethylene	64		24.9		7.37		7.6	J L	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	84.4	J	85	J I	38.2	J I	41.2	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	2380		1630		1390		1100		< 2400	5	ug/L	EX
	Sodium, total recoverable	5620		4310		4090		4460		< 4600	1	ug/L	EX
	Sulfate	1170		1400		2560		1750		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	17.2		7.28	J K	1.99	J I	3.14		< 15	1	pCi/L	GP
	Nonvolatile beta	12.17	J	2.6	J I	1.16	U	1.69	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	4.04		3.81		2.2		1.81		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 5

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104083.4 E 51467.2	33.33993 Deg N -81.7335 Deg W	242.1 - 222.1 ft msl	379.6 ft msl	4 " PVC	S	M

SAMPLE DATE	09/29/98	03/16/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.3	231.64	<i>Not Available</i>	230.21	ft msl
pH	3.8	5.1		5.2	pH
Sp. Conductance	88	44		31	uS/cm
Water temperature	23.1	19.2		19.5	deg. C
Alkalinity as CaCO3				2	mg/L
Turbidity	17	1.7		1.4	NTU
Volumes purged	.169	4.90		5.20	well volume
Sampling code	NX				
Synchronous water level	231 (09/24/98)	233.1 (03/29/99)	231 (09/22/99)	230.1 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	23.2		6.7				<4.62	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	UJ	<15.2	U			<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	11.3	J	<47	U			<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	5.2	J	<26	U			<9.29	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U			<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U			<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	19.2		18.2				5.7		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	1320		106	J I			<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	3080		1700				1360		< 2400	5	ug/L	EX
+	Sodium, total recoverable	5720		7280				5040		> 4600	1	ug/L	EX
	Sulfate	846		4570				2190		< 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	16.74		4.61	J K			3.46		< 15	1	pCi/L	GP
	Nonvolatile beta	10.29		1.56	J I			2.52		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	6.19		2.15	J I			1.75		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 6

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104034.1 E 51466	33.33982 Deg N -81.7334 Deg W	242.6 - 222.6 ft msl	377.2 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/29/98	03/11/99	08/31/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.1	231.85	231.15	230.32	ft msl
pH	5.2	5.4	5.3	5.8	pH
Sp. Conductance	48	33	36	35	uS/cm
Water temperature	20.2	19.1	20.3	20.2	deg. C
Alkalinity as CaCO3	4	4	7	8	mg/L
Turbidity	2.5	2.1	1.8	1.7	NTU
Volumes purged	2.94	3.37	2.56	3.04	well volume
Sampling code					
Synchronous water level	231.1 (09/24/98)	232.2 (03/29/99)	231.1 (09/22/99)	230.1 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.2		2.3		4.2		<2.14	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	UJ	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	<47	U	17.8	J I	<47	U	15.1		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<9.72	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	2.09	J	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<21.4	U	324		32	J I	<884	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	579		860		520		820		< 2400	5	ug/L	EX
+	Sodium, total recoverable	8750		5300		6230		7030		> 4600	1	ug/L	EX
+	Sulfate	4130		2840		3960		4010		> 3000	1	ug/L	EX
Radionuclides													
	Gross alpha	1.51		2.06	J I	1.08	U V	.687	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.95		.93	U	1.14	U	1.2	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.85		.25	U	.9	J I	-.038	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 8D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103874.7 E 51400.5	33.33936 Deg N -81.7333 Deg W	240.8 - 220.8 ft msl	369.6 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/02/98	02/05/99	08/28/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.2	231.34	231.13	230.51	ft msl
pH	5.4	5.6	5.6	5.3	pH
Sp. Conductance	35	29	33	37	uS/cm
Water temperature	20.6	18.9	22.1	20.6	deg. C
Alkalinity as CaCO3	4	6	5	7	mg/L
Turbidity	2.1	1	.9	1	NTU
Volumes purged	3.32	18.9	3.04	2.75	well volume
Sampling code					
Synchronous water level	227.8 (09/24/98)	231.8 (03/26/99)	230.9 (09/22/99)	230.1 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.1		3.6		<4.9	U V	<3.22	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	1.54	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	5.2	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	2.9	J	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.65	J	<5	U	<5	JU Q	1.1	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	76.1	J	55	J I	18.6	J I	<55.3	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	464		700		627		508		< 2400	5	ug/L	EX
+	Sodium, total recoverable	5450		4070		4960		6810		> 4600	1	ug/L	EX
	Sulfate	1780		1500		1910		2730		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	4.77	J	4.54		2.34	J K	4.36		< 15	1	pCi/L	GP
	Nonvolatile beta	2.54	UIJ	4.03		1.25	U	2.15	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.98		1.66	J I	.8	J I	.656	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 9D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103585.2 E 51263	33.33850 Deg N -81.7331 Deg W	239.7 - 219.7 ft msl	367.9 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/02/98	02/05/99	08/31/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.25	231.32	230.85	230.43	ft msl
pH	5.8	5.8	4.9	5.3	pH
Sp. Conductance	42	42	42	43	uS/cm
Water temperature	18.7	17.9	18.4	18.7	deg. C
Alkalinity as CaCO3	7	29	0	8	mg/L
Turbidity	1.8	2.4	.8	.9	NTU
Volumes purged	14.1	16.7	4.04	3.76	well volume
Sampling code					
Synchronous water level	231.1 (09/24/98)	231.7 (03/26/99)	230.8 (09/22/99)	229.9 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.4		2.6		2.8		<2.77	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	JU Q							ug/L	
	PCB 1221			<2.04	JU Q							ug/L	
	PCB 1232			<1.02	JU Q							ug/L	
	PCB 1242			<1.02	JU Q							ug/L	
	PCB 1248			<1.02	JU Q							ug/L	
	PCB 1254			<1.02	JU Q							ug/L	
	PCB 1260			<1.02	JU Q							ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	953		30.8	J I	<146	U	<46	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	173		143		117		<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	8830		7820		7710		9760		> 4600	1	ug/L	EX
+	Sulfate	4900		6490		5380		4800		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	2.35	J	1.22	U	1.1	U V	.681	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.59	UIJ	.51	U	.573	U	.924	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1		1.24	J I	.9	J I	.693	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 10A**

SRS Coord.	Lat/Longitude	Screen Zone Elevation	Top of Casing	Casing	Pump	Screen Zone
N 103326.4 E 51410	33.33816 Deg N -81.7322 Deg W	111.4 - 106.4 ft msl	366.5 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/02/98	02/08/99	08/31/99	02/14/00
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FIELD DATA

Parameter	3Q98	1Q99	3Q99	1Q00	Unit
Water Elevation	216.6	217.25	216.78	216.82	ft msl
pH	7.5	6.4	6.6	8.2	pH
Sp. Conductance	82	84	83	80	uS/cm
Water temperature	21.7	19	21	19	deg. C
Alkalinity as CaCO3	27	30	27	24	mg/L
Turbidity	6.6	3.3	4.1	2.6	NTU
Volumes purged	2.15	.399	0	.014	well volume
Sampling code		NX	NX	NX	
Synchronous water level	216.1 (09/24/98)	217.6 (03/26/99)	216.8 (09/22/99)	216.7 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Barium, total recoverable	11.9		12.9		10.9		12.1		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	1.54	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

ST	Parameter	3Q98	CLP EPA	1Q99	CLP EPA	3Q99	CLP EPA	1Q00	CLP EPA	Filt.	DF	Unit	Lab
Inorganics													
	Aluminum, total recoverable	156		66.7	J I	66	J I	<172	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	263		268		270		<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	5540		4760		4910		7170		> 4600	1	ug/L	EX
+	Sulfate	3610		3500		3700		5510		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.09	UIJ	.44	U V	.0302	U	.457	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.81	UIJ	2.76		1.08	U	2.18	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	-.11	UI	1.01	J I	.2	U	.039	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 10B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103337.3 E 51418.3	33.33820 Deg N -81.7322 Deg W	154.3 - 149.3 ft msl	366.4 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/02/98	02/17/99	08/31/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.56	222.55	221.38	221.43	ft msl
pH	5.3	5.4	6.6	5.5	pH
Sp. Conductance	41	34	39	34	uS/cm
Water temperature	19.2	19.6	20.6	18.5	deg. C
Alkalinity as CaCO3	8	7	10	3	mg/L
Turbidity	.3	.2	.5	.3	NTU
Volumes purged	2.67	2.67	0	2.61	well volume
Sampling code					
Synchronous water level	221 (09/24/98)	222.3 (03/26/99)	221.6 (09/22/99)	221.3 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.3		9.47		9.9		8.51	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<5.71	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	U			<.96	U	< EQL	.960	ug/L	EX
	PCB 1221			<2.04	U			<.96	U	< EQL	.960	ug/L	EX
	PCB 1232			<1.02	U			<.96	U	< EQL	.960	ug/L	EX
	PCB 1242			<1.02	U			<1.9	U	< EQL	.960	ug/L	EX
	PCB 1248			<1.02	U			<.96	U	< EQL	.960	ug/L	EX
	PCB 1254			<1.02	U			<.96	U	< EQL	.960	ug/L	EX
	PCB 1260			<1.02	U			<.96	U	< EQL	.960	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<146	U	<18.9	U V	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	206		231		239		<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	4260		4250		4400		4950		> 4600	1	ug/L	EX
	Sulfate	865		1010		1060		1370		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.36	UIJ	.53	J I	.013	U	.285	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	6.68	J	-.09	U	.542	U	.575	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.18	UI	.23	U	.1	U	.072	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 10D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103293.4 E 51456	33.33817 Deg N -81.7320 Deg W	239.4 - 219.4 ft msl	365.5 ft msl	4 " PVC	S	M

SAMPLE DATE	09/02/98	02/17/99	08/28/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	232.45	232.87	232.02	231.12	ft msl
pH	5.5	5.2	5.9	5.4	pH
Sp. Conductance	51	40	46	42	uS/cm
Water temperature	18.8	19.8	21.6	18.4	deg. C
Alkalinity as CaCO3	9	8	10	3	mg/L
Turbidity	1.2	.4	.8	1.9	NTU
Volumes purged	5.26	4.98	9.03	5.87	well volume
Sampling code					
Synchronous water level	232.3 (09/24/98)	232.6 (03/26/99)	231.6 (09/22/99)	230.9 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	5		5.99		<4.8	U V	14.4		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	U							ug/L	
	PCB 1221			<2.04	U							ug/L	
	PCB 1232			<1.02	U							ug/L	
	PCB 1242			<1.02	U							ug/L	
	PCB 1248			<1.02	U							ug/L	
	PCB 1254			<1.02	U							ug/L	
	PCB 1260			<1.02	U							ug/L	
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	19.6	J	<62.5	U V	432		<176	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	60		66		80		<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	8050		8060		8440		8980		> 4600	1	ug/L	EX
+	Sulfate	3490		4160		4450		4270		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.45	J	.81	J I	.0639	U	.978	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.2	UIJ	.74	U	-.207	U	.857	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.25	UI	.97	U V	.3	J I	.25	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 16D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104268.8 E 51557.5	33.34049 Deg N -81.7336 Deg W	233.4 - 213.4 ft msl	380.4 ft msl	2" PVC	V	M

<u>SAMPLE DATE</u>	09/09/98	03/10/99	09/02/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.85	231.97	232.9	230.12	ft msl
pH	4.8	4.7	4.8	5.1	pH
Sp. Conductance	24	21	25	24	uS/cm
Water temperature	19.7	20.5	22.3	19.5	deg. C
Alkalinity as CaCO ₃			0	0	mg/L
Turbidity	.2	.2	.4	.7	NTU
Volumes purged	13.2	4.00	3.81	10.0	well volume
Sampling code					
Synchronous water level	236 (09/24/98)	231.7 (03/26/99)	230.9 (09/22/99)	230 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	4.2		4.6		4		<4.35	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	27.8	J I	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<7.83	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016							<.94	U	< EQL	.940	ug/L	EX
	PCB 1221							<.94	U	< EQL	.940	ug/L	EX
	PCB 1232							<.94	U	< EQL	.940	ug/L	EX
	PCB 1242							<1.9	U	< EQL	.940	ug/L	EX
	PCB 1248							<.94	U	< EQL	.940	ug/L	EX
	PCB 1254							<.94	U	< EQL	.940	ug/L	EX
	PCB 1260							<.94	U	< EQL	.940	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	4.13	J	1.54	J I	2.13	J IQ	3.1	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<146	U	25.2	J I	59.8	J I	36.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1030		903		1400		1320		< 2400	5	ug/L	EX
	Sodium, total recoverable	1910		1690		2920		3380		< 4600	1	ug/L	EX
	Sulfate	352		373		414		768	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	7.09		6.35		4.02		4.07		< 15	1	pCi/L	GP
	Nonvolatile beta	3.31	U	1.38	U	2.41		2.79		< 50	1	pCi/L	GP
	Radium, total alpha-emitting	1.26		2.72	J I	1.8	J I	1.6		< 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 17A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104056.7 E 51465.4	33.33987 Deg N -81.7335 Deg W	125 - 120 ft msl	379.1 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/29/98	03/16/99	09/22/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	215.65	218.81	217.39	217.03	ft msl
pH	4.8	5	5	4.8	pH
Sp. Conductance	14	20	18	20	uS/cm
Water temperature	19.8	19.2	19.3	18.8	deg. C
Alkalinity as CaCO ₃			0	1	mg/L
Turbidity	1.5	.5	1.1	.4	NTU
Volumes purged	3.46	2.33	2.72	2.34	well volume
Sampling code					
Synchronous water level	216.4 (09/24/98)	217.7 (03/29/99)	217.4 (09/22/99)	216.8 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.8		3.2		2.7		<3.28	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	40.3	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	27.3	J	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1221			<2.04	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1232			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1242			<1.02	JU Q			<2	U	< EQL	.980	ug/L	EX
	PCB 1248			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1254			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	PCB 1260			<1.02	JU Q			<.98	U	< EQL	.980	ug/L	EX
	1,1,2,2-Tetrachloroethane	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	22.8		26		26.3		25		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<25	U	<10	U	<10	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	241		208		176		170		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<200	U	<146	U	<146	U	39.8	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	868		857		926		838		< 2400	5	ug/L	EX
	Sodium, total recoverable	2040		1700		1680		1870		< 4600	1	ug/L	EX
	Sulfate	514		487		452		<636	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	1.21		.38	U	.122	U	.0614	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	10.04		.46	U	.497	U	.217	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.32	UI	.48	U	-.1	U	.055	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 18A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103988.8 E 51418.8	33.33964 Deg N -81.7334 Deg W	136.4 - 131.4 ft msl	377.3 ft msl	4 " PVC	S	MCBC

SAMPLE DATE	09/25/98	03/11/99	09/23/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.06	218.87	217.21	216.96	ft msl
pH	5.2	4.8	5.2	4.5	pH
Sp. Conductance	26	25	21	23	uS/cm
Water temperature	19	18.4	19.3	18.7	deg. C
Alkalinity as CaCO ₃		1	0	1	mg/L
Turbidity	.3	.4	.7	.2	NTU
Volumes purged	2.07	2.63	2.59	2.64	well volume
Sampling code					
Synchronous water level	216.2 (09/24/98)	218.1 (03/26/99)	217.2 (09/22/99)	216.8 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.1		5.7		5.4		44.7		< 2000	1	ug/L	EX
	Cyanide	<15.2	UJ	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<6.24	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1221			<2.04	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1232			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1242			<1.02	JU Q			<1.9	U	< EQL	.960	ug/L	EX
	PCB 1248			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1254			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	PCB 1260			<1.02	JU Q			<.96	U	< EQL	.960	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	4.59	J	<5	U	2.36	J I	4.6	J I	NDD	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	36.8		27.8		19.3		24		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<55.5	U	<146	U	<146	U	<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	813		790		795		734		< 2400	5	ug/L	EX
	Sodium, total recoverable	2180		1920		1900		2310		< 4600	1	ug/L	EX
	Sulfate	471	J	442		432		<555	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	.28	UIJ	.72	U	.106	U	.838	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.64	UI	-.45	U	.482	U	.827	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.35	UI	1.01	J I	0	U	-.081	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 18C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103983.4 E 51432.8	33.33965 Deg N -81.7334 Deg W	214.2 - 209.2 ft msl	376 ft msl	2 " PVC	V	UL

SAMPLE DATE 09/09/98 02/16/99 08/28/99 02/15/00

FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.88	231.7	230.9	229.9	ft msl
pH	5.9	4.9	5.2	4.1	pH
Sp. Conductance	21	16	20	20	uS/cm
Water temperature	19.3	19.8	21.4	19.3	deg. C
Alkalinity as CaCO3	1	2	3	0	mg/L
Turbidity	5.8	2.7	3.8	4.3	NTU
Volumes purged	7.70	5.49	7.69	7.77	well volume
Sampling code					
Synchronous water level	230.8 (09/24/98)	231.6 (03/26/99)	230.7 (09/22/99)	229.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.9		3.7		<4.1	U V	4.25	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	52.4		6.9	J I	<47	U	15.7		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<6.96	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	PCB 1016			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1221			<2.02	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1232			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1242			<1.01	U			<1.9	U	< EQL	.970	ug/L	EX
	PCB 1248			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1254			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	PCB 1260			<1.01	U			<.97	U	< EQL	.970	ug/L	EX
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	JU Q	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	87.1	J	97.7	J I	63.8	J I	<173	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	884		678		763		702		< 2400	5	ug/L	EX
	Sodium, total recoverable	1960		1970		1960		2370		< 4600	1	ug/L	EX
	Sulfate	708		1170		629		969	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.07		.83	J IK	1.39	J IK	2.32	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.91	UI	.85	U	.676	U	.709	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.07		1.73	J I	.3	J I	.402	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-6. Groundwater Monitoring Results for Point-of-Compliance Wells, Met Lab HWMF (Cont.)
WELL AMB 19C**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102941.1 E 51503.7	33.33747 Deg N -81.7312 Deg W	196.7 - 191.7 ft msl	363.7 ft msl	2 " PVC	V	UL

<u>SAMPLE DATE</u>	09/09/98	02/09/99	08/31/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.7	228.93	228.08	227.34	ft msl
pH	5.8	5.1	5.8	5	pH
Sp. Conductance	54	48	47	46	uS/cm
Water temperature	18.6	19.3	19.3	18.3	deg. C
Alkalinity as CaCO ₃	9	9	13	2	mg/L
Turbidity	1.2	.6	.6	.5	NTU
Volumes purged	4.98	7.26	3.21	5.00	well volume
Sampling code					
Synchronous water level	228.6 (09/24/98)	229.1 (03/26/99)	228.1 (09/22/99)	327.3 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	1.2	J	<1.4	U V	2.2		<1.8	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	2.5	J I	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	<47	U	<47	U	<47	U	98.8		> 15	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<146	U	44.5	J I	<146	U	<65.1	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	68		68		71		<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	9440		8970		9160		10300		> 4600	1	ug/L	EX
+	Sulfate	6540		6750		6160		5160		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.43		-.24	U	.425	U	.176	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	1.07	UI	.5	U	.756	U	.636	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.14	UI	.12	U	-.1	U	-.036	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF
WELL AMB 11D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103132.3 E 51932.6	33.33859 Deg N -81.7304 Deg W	240.5 - 220.5 ft msl	364 ft msl	4 " PVC	S	M

SAMPLE DATE	09/02/98	02/12/99	08/30/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	233.3	233.47	232.49	231.37	ft msl
pH	6.4	5.9	5.7	5.9	pH
Sp. Conductance	68	38	41	44	uS/cm
Water temperature	19.3	17.8	19.5	18.4	deg. C
Alkalinity as CaCO3	25	12	1	8	mg/L
Turbidity	.6	11.1	4.3	1.1	NTU
Volumes purged	3.66	15.0	13.7	10.8	well volume
Sampling code					
Synchronous water level	233.1 (09/24/98)	233.3 (03/26/99)	232.3 (09/22/99)	231.2 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	10.3		4.7		4.6		<5.76	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<9.87	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	38.9	J	118	J I	90.4	J I	35.6	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	186		167		225		<500	U	< EQL	5	ug/L	EX
+	Sodium, total recoverable	6930		6830		6220		8170		> 4600	1	ug/L	EX
+	Sulfate	5310		6540		6180		5650		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.34	UIJ	.42	U	.556	U	.326	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	.23	UIJ	.16	U	.574	U	.621	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.15	UI	.62	U	-.1	U	.371	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL AMB 12D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103602.4 E 51901.6	33.33958 Deg N -81.7314 Deg W	239.4 - 219.4 ft msl	369.8 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	09/23/98	02/12/99	08/30/99	02/14/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	232.45	232.75	231.9	231.17	ft msl
pH	5	6	5.9	5.8	pH
Sp. Conductance	26	20	25	21	uS/cm
Water temperature	19.5	19	20.3	19.5	deg. C
Alkalinity as CaCO3	2	17	8	3	mg/L
Turbidity	.4	2.2	1	.8	NTU
Volumes purged	6.70	5.84	3.25	3.06	well volume
Sampling code					
Synchronous water level	232.2 (09/24/98)	232.7 (03/26/99)	231.7 (09/22/99)	230.7 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.4		6.7		7.3		7.61	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	3.54	J	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	10.2		<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filter</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<146	U	27.7	J I	<146	U	<49.3	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	841		733		814		650		< 2400	5	ug/L	EX
	Sodium, total recoverable	1530		1330		1660		1280		< 4600	1	ug/L	EX
	Sulfate			714		601		874	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	2.51		.68	U	1.08	J I	.494	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	8.37	J	-.09	U	1.42	J I	1.5	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.35	UI	-.06	U	.1	U	.148	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 29B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107319.3 E 51217.5	33.34668 Deg N -81.7405 Deg W	151.7 - 145.1 ft msl	365 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	08/27/98	02/05/99	08/25/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.49	223.38	223.01	222.56	ft msl
pH	5.5	4.9	4.8	5.6	pH
Sp. Conductance	31	31	29	28	uS/cm
Water temperature	19.9	18.5	19.5	16.9	deg. C
Alkalinity as CaCO ₃			0	1	mg/L
Turbidity	.3	.3	.2	1.1	NTU
Volumes purged	2.49	2.32	2.90	.020	well volume
Sampling code				NX	
Synchronous water level	222.3 (09/24/98)	223.6 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.17	J	<10	U	7.5	J I	7.35	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	12.2	J	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U			<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<200	U	<200	U	<200	U	<62.2	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1360		4050		1460		1420		< 2400	5	ug/L	EX
	Sodium, total recoverable	2440		<1000	U	2600		2720		< 4600	1	ug/L	EX
	Sulfate	469		395	J I	<400	U	413	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	2.02		2.08	J I	.898	U	1.19	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.33	UI	2.1	J I	1.28	U	1.5	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.72		.83	J I	1.5	J I	.183	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 29C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107315 E 51206.6	33.34665 Deg N -81.7405 Deg W	179.7 - 174.1 ft msl	365 ft msl	4 " PVC	S	UL

SAMPLE DATE	08/27/98	02/05/99	08/12/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.7	229.5	229.54	228.47	ft msl
pH	5.2	5	4.7	5.5	pH
Sp. Conductance	29	31	29	28	uS/cm
Water temperature	20.3	18.5	19.8	18.9	deg. C
Alkalinity as CaCO3			0	2	mg/L
Turbidity	.3	.2	.3	1.1	NTU
Volumes purged	2.35	2.56	2.81	5.39	well volume
Sampling code					
Synchronous water level	229 (09/24/98)	229.8 (03/26/99)	229.5 (09/22/99)	228.4 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.13	J	<10	U	5.9	J I	6	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<2.27	U V	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	15.2	J	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U			<2	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<200	U	<200	U	77	J I	<59	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1350		1590		1440		1320		< 2400	5	ug/L	EX
	Sodium, total recoverable	2470		<1000	U	2500		2390		< 4600	1	ug/L	EX
	Sulfate	366	J	394	J I	535		591	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	3.73		3.26		1.28	J IK	2.45		< 15	1	pCi/L	GP
	Nonvolatile beta	3.85		3.01	J I	2.58	J I	2.56	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.34	UI	1.06	J I	.5	J I	.603	J IL	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 29D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107323.3 E 51226.9	33.34670 Deg N -81.7404 Deg W	227.6 - 207 ft msl	364.9 ft msl	4 " PVC	S	M

<u>SAMPLE DATE</u>	08/31/98	02/05/99	08/12/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.78	231.59	231.82	230.59	ft msl
pH	5	5.1	4.7	5.6	pH
Sp. Conductance	28	32	29	30	uS/cm
Water temperature	20.1	17.8	19.8	18.3	deg. C
Alkalinity as CaCO ₃			1	1	mg/L
Turbidity	2.3	.5	.3	1.2	NTU
Volumes purged	4.20	2.88	2.41	3.32	well volume
Sampling code					
Synchronous water level	230.7 (09/24/98)	231.9 (03/26/99)	231.8 (09/22/99)	230.4 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	8.84	J	<10	U	9.1	J I	<8.64	U V	< EQL	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<4.14	U V	11.2		< 15	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<9.5	JU I	<10.9	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<3.38	UJ			<2	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<200	U	<200	U	<200	U	59.7	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	867		1870		1400		1600		< 2400	5	ug/L	EX
	Sodium, total recoverable	2700		<1000	U	3400		4120		< 4600	1	ug/L	EX
	Sulfate	356	J	284	J I	647		784	J I	NDD	2	ug/L	EX
Radionuclides													
+	Gross alpha	28.5		8.25		12.4	J K	18.1		> 15	1	pCi/L	GP
	Nonvolatile beta	19.3	J	4.37		4.93		6.01		< 50	1	pCi/L	GP
+	Radium, total alpha-emitting	3.33		2.22	J I	3.7		6.27		> 5	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 43A**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107275.3 E 49293.7	33.34344 Deg N -81.7454 Deg W	140.5 - 134.9 ft msl	357.7 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/01/98	02/08/99	08/17/99	02/11/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	228.59	229.1	228.38	227.87	ft msl
pH	4.9	5.4	5.2	5.1	pH
Sp. Conductance	31	25	25	25	uS/cm
Water temperature	21.7	19.7	22.5	19.3	deg. C
Alkalinity as CaCO3	1	3	1	0	mg/L
Turbidity	.7	.2	.3	.5	NTU
Volumes purged	2.49	2.12	3.25	2.60	well volume
Sampling code					
Synchronous water level	228.3 (09/24/98)	229.1 (03/26/99)	228.3 (09/22/99)	227.6 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	14.1		7.77	J I	9.8	J I	9.54	J I	NDD	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<10	U	<1.93	JU	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<200	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<200	U	<200	U	<200	U	<55.8	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1470		3870		1620		1570		< 2400	5	ug/L	EX
	Sodium, total recoverable	1700		1990		2000		2070		< 4600	1	ug/L	EX
	Sulfate	284	J	<400	U	252	J I	<1000	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	.76	UI	1.04	U V	.531	U	.471	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.16		.76	U	4.32		1.2	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.72	U	.51	U	.1	U	.254	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 43B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>							
N 107274.6 E 49311.8	33.34346 Deg N -81.7454 Deg W	175.5 - 169.9 ft msl	357.8 ft msl	4 " PVC	S	UL							
SAMPLE DATE		09/01/98	02/08/99	08/17/99	02/11/00								
FIELD DATA													
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>								
Water Elevation	228.71	229.2	228.6	228	ft msl								
pH	4.3	5.1	5.1	4.7	pH								
Sp. Conductance	31	25	24	24	uS/cm								
Water temperature	21.2	19.7	21.5	19.3	deg. C								
Alkalinity as CaCO3			0	0	mg/L								
Turbidity	.3	.5	.2	.5	NTU								
Volumes purged	3.25	2.19	4.59	2.50	well volume								
Sampling code													
Synchronous water level	209.9 (09/24/98)	229.1 (03/26/99)	228.5 (09/22/99)	227.8 (03/23/00)	ft msl								
ANALYTICAL DATA													
I. Groundwater Protection Standard													
261 Appendix VIII/264 Appendix IX Hazardous Constituents													
<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.89	J	2.43	J I	3.1	J I	<3.22	U V	< EQL	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<100	U	<10	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<6.7	JU I	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<200	U	<10	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
II. Monitoring Constituents													
<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	<200	U	<200	U	<200	U	<36.3	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1410		1550		1480		1430		< 2400	5	ug/L	EX
	Sodium, total recoverable	2330		2230		2400		2390		< 4600	1	ug/L	EX
	Sulfate	356	J	521		374	J I	<1000	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	3.76		2.12	U V	1.44	J I	2.57		< 15	1	pCi/L	GP
	Nonvolatile beta	4.24		1	U	1.48	U	1.98	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.99	U	1.68	J I	.5	U V	.895	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-7. Groundwater Monitoring Results for Background Wells, Met Lab HWMF (Cont.)
WELL MSB 43D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107274.2 E 49322	33.34348 Deg N -81.7454 Deg W	220.8 - 200.2 ft msl	358 ft msl	4 " PVC	S	M/GC

<u>SAMPLE DATE</u>	09/01/98	02/08/99	08/17/99	02/11/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	230.71	231.25	230.59	230.1	ft msl
pH	4	4.9	4.9	3.3	pH
Sp. Conductance	29	23	22	23	uS/cm
Water temperature	20.6	19.5	21.2	19.7	deg. C
Alkalinity as CaCO3			0	0	mg/L
Turbidity	1	.4	.2	.6	NTU
Volumes purged	2.81	2.71	4.53	2.66	well volume
Sampling code					
Synchronous water level	230.4 (09/24/98)	231.2 (03/26/99)	230.6 (09/22/99)	229.9 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	3.12	J	3.37	J I	3.6	J I	<3.61	U V	< EQL	1	ug/L	EX
	Cyanide	<10	U	<10	U	<10	U	<10	U	< EQL	1	ug/L	EX
+	Lead, total recoverable	<100	U	<100	U	7.5	J I	25.8		> 15	1	ug/L	EX
	Nickel, total recoverable	<50	U	<50	U	<50	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<10	U	<200	U	<3.8	JU I	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	UJ	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	84.9	J	86.8	J I	<200	U	<114	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	953		1070		1050		973		< 2400	5	ug/L	EX
	Sodium, total recoverable	1510		1830		1500		1580		< 4600	1	ug/L	EX
	Sulfate	508		850		308	J I	<1000	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	1.31		.86	U V	.495	U	1.15	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.39	UI	.6	U	2.12	J I	.716	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.45	U	.69	U	.3	U	.346	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF
WELL AMB 4B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104145.6 E 51482.7	33.34009 Deg N -81.7336 Deg W	157.3 - 152.3 ft msl	380.4 ft msl	4 " PVC	S	LL
SAMPLE DATE	09/24/98	03/11/99	08/31/99	02/14/00		
FIELD DATA						
<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>	
Water Elevation	222.28	224.3	222.57	222.8	ft msl	
pH	5	4.7	5	4.3	pH	
Sp. Conductance	44	30	28	26	uS/cm	
Water temperature	20.6	18.6	19.7	19.4	deg. C	
Alkalinity as CaCO ₃	3		0	0	mg/L	
Turbidity	.9	.5	.4	.4	NTU	
Volumes purged	.066	2.29	2.37	2.73	well volume	
Sampling code	NX					
Synchronous water level	222.3 (09/24/98)	224.1 (03/29/99)	222.8 (09/22/99)	222.6 (03/23/00)	ft msl	

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.6	J	5.1		6.1		5.16	J I	NDD	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<100	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<50	U	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	3.56	J	2.82	J I	3.26	J I	4.5	J I	NDD	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	292		24.7	J I	29	J I	<49.7	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	440	J	445		444		<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	3210		2870		2960		2950		< 4600	1	ug/L	EX
	Sulfate	1180		451		402		797	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	1.85		2.84	J I	.636	U	1.75	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	8.38	UI	-1.59	U	.463	U	1.66	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.74		1.97	J I	.3	U	.355	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 7

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103920 E 51624.9	33.33983 Deg N -81.7328 Deg W	242.1 - 222.1 ft msl	369.9 ft msl	4" PVC	S	M

SAMPLE DATE	09/02/98	02/08/99	08/28/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.66	232.04	231.6	230.78	ft msl
pH	5.5	5.8	6.2	6.5	pH
Sp. Conductance	67	51	54	64	uS/cm
Water temperature	19.8	20.1	22.7	17.5	deg. C
Alkalinity as CaCO3	16	16	19	22	mg/L
Turbidity	13	13.2	8.7	11	NTU
Volumes purged	.163	.626	.164	.539	well volume
Sampling code	NX	NX	NX	NX	
Synchronous water level	231.4 (09/24/98)	232.1 (03/26/99)	231.3 (09/22/99)	230.7 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	9.9		6.8		10.1		10.1		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	2.41	J I	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	5.5	J	9.4	J I	6	J I	7.2	J I	NDD	1	ug/L	EX
	Nickel, total recoverable	4.4	J	3.8	J I	3.3	J I	<11.3	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	1.04	J	<5	JU Q	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Flt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	334		189		342		<367	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	285		357		575		379	J I	NDD	5	ug/L	EX
+	Sodium, total recoverable	10800		9230		8140		12400		> 4600	1	ug/L	EX
+	Sulfate	3970		3800		4010		5050		> 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	1.75	J	1.57	U V	.55	J IK	1.25	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.82	UIJ	.71	U	.93	U	1.16	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.43		.13	U	.5	J I	.11	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 7A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.1 E 51591	33.33992 Deg N -81.7330 Deg W	125.6 - 115.6 ft msl	373.6 ft msl	4 " PVC	S	MCBC

<u>SAMPLE DATE</u>	09/24/98	03/11/99	09/23/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	216.73	219.25	217.62	217.22	ft msl
pH	4.9	5.2	5.7	6	pH
Sp. Conductance	30	27	23	24	uS/cm
Water temperature	18.8	19.2	19.7	18.9	deg. C
Alkalinity as CaCO3	7	3	2	5	mg/L
Turbidity	.8	.3	.6	.2	NTU
Volumes purged	2.19	2.65	2.59	2.89	well volume
Sampling code					
Synchronous water level	216.7 (09/24/98)	218.4 (03/26/99)	217.6 (09/22/99)	217.1 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	6.1		4.6		4.5		<5.23	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	4.9	J	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	9.81	J	<26	U	<26	U	<12.3	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<200	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Tetrachloroethylene	40.4		34.5		34.8		41		> 5	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	127		102		90.3		73		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	43.7	J	16.4	J I	<146	U	<34	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	837		872		935		821		< 2400	5	ug/L	EX
	Sodium, total recoverable	2290		1700		1620		1850		< 4600	1	ug/L	EX
	Sulfate	789		547		495		<627	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	.85		.95	J I	.689	J I	1.01	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	1.41		.14	U	.8	U	.475	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.1	UI	.44	U	.2	U	.052	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold Italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.

+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 7B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103972 E 51590.3	33.33989 Deg N -81.7330 Deg W	162.9 - 152.9 ft msl	373 ft msl	4 " PVC	S	LL

<u>SAMPLE DATE</u>	09/24/98	03/11/99	09/23/99	02/23/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	222.62	224.4	216.92	222.56	ft msl
pH	4.8	4.7	5.2	5.3	pH
Sp. Conductance	30	25	22	24	uS/cm
Water temperature	19.2	19.7	19.5	19	deg. C
Alkalinity as CaCO3			0	2	mg/L
Turbidity	.7	.1	.4	.9	NTU
Volumes purged	3.20	3.39	2.98	2.39	well volume
Sampling code					
Synchronous water level	222.6 (09/24/98)	223.8 (03/26/99)	222.9 (09/22/99)	222.4 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	2.5		2.5		2.8		<2.88	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	18.6	J	<100	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<50	U	<26	U	<5.95	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<200	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
+	Trichloroethylene	6.06		6.25		5.26		5.9		> 5	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	23.3	J	36.1	J I	<146	U	35.3	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	593		776		636		647		< 2400	5	ug/L	EX
	Sodium, total recoverable	3300		3890		3130		3750		< 4600	1	ug/L	EX
	Sulfate	836		895		821		<1000	U	< EQL	1	ug/L	EX
Radionuclides													
	Gross alpha	.7	UI	1.7	J I	.611	U	.761	J I	NDD	1	pCi/L	GP
	Nonvolatile beta	.4	UIJ	.662	U	.778	U	.515	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.09	UI	.35	U	.2	U	.263	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 11B**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103154.2 E 51919.5	33.33862 Deg N -81.7305 Deg W	184.5 - 174.5 ft msl	364.6 ft msl	4 " PVC	S	UL

<u>SAMPLE DATE</u>	09/02/98	02/23/99	08/30/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	221.57	222	221.42	220.88	ft msl
pH	6	5.3	5.8	5.8	pH
Sp. Conductance	44	38	35	35	uS/cm
Water temperature	18.8	18.4	19.9	18.8	deg. C
Alkalinity as CaCO3	31	7	21	8	mg/L
Turbidity	1	.3	.5	.9	NTU
Volumes purged	2.60	3.44	3.65	2.54	well volume
Sampling code					
Synchronous water level	220.8 (09/24/98)	222.3 (03/26/99)	221.4 (09/22/99)	220.7 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	24.9		101		19.5		43.2		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	U	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<100	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<50	U	<26	U	<9.87	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<200	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	34.7	J	29.8	J I	<146	U	60.5	J I	NDD	1	ug/L	EX
	Nitrate-nitrite as nitrogen	217		216		226		<500	U	< EQL	5	ug/L	EX
	Sodium, total recoverable	2130		2160		1960		2570		< 4600	1	ug/L	EX
	Sulfate	465		561		463		833	J I	NDD	2	ug/L	EX
Radionuclides													
	Gross alpha	.97	J	1.42	J I	.425	U	.489	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	6.67	J	.764	U	.485	U	.835	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	.62		.61	U	0	U	.584	J I	NDD	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 13AR

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103082 E 51396	33.33760 Deg N -81.7317 Deg W	110.9 - 100.9 ft msl	365.1 ft msl	4" PVC	S	MCBC

<u>SAMPLE DATE</u>	10/27/98	02/17/99	08/31/99	02/15/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	218.18	218.57	217.45	217.22	ft msl
pH	8.3	7.6	7.2	6.7	pH
Sp. Conductance	55	72	68	75	uS/cm
Water temperature	20.5	20	21.3	19.6	deg. C
Alkalinity as CaCO3	24	22	24	19	mg/L
Turbidity	6.1	2.2	2	1.4	NTU
Volumes purged	.026	.013	0	2.26	well volume
Sampling code	NX	X	NX		
Synchronous water level	216.9 (09/24/98)	218.3 (03/26/99)	217.5 (09/22/99)	217 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	25.5		28		19.3		22.2		< 2000	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	5.21	J I	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	<26	U	<26	U	<26	U	<5.09	U V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	371		494		226		<186	U V	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	1000		995		978		846		< 2400	5	ug/L	EX
	Sodium, total recoverable	3660		4010		3380		3280		< 4600	1	ug/L	EX
	Sulfate	1320		1560		1510		1680		< 3000	2	ug/L	EX
Radionuclides													
	Gross alpha	.82	UI	1.79	J I	.384	U	.295	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	2.83		1.94	J I	2	J I	1.72	J I	NDD	1	pCi/L	GP
	Radium, total alpha-emitting	.87	J	.35	U	.5	J I	.069	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

**Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)
WELL AMB 14D**

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104278.7 E 51360.8	33.34019 Deg N -81.7342 Deg W	235.1 - 215.1 ft msl	382.4 ft msl	2 " PVC	V	M

<u>SAMPLE DATE</u>	09/30/98	03/30/99	09/28/99
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	229.3	230.18	229.13	<i>Not Available</i>	ft msl
pH	3.2	6.1	6.7		pH
Sp. Conductance	260	30	26		uS/cm
Water temperature	21.6	19.3	23.7		deg. C
Alkalinity as CaCO3		4	1		mg/L
Turbidity	142	10.5	9.8		NTU
Volumes purged	.439	.413	2.22		well volume
Sampling code	NX	NX	NX		
Synchronous water level	229 (09/24/98)	230.1 (03/26/99)	229.2 (09/22/99)	228.5 (03/23/00)	ft msl

ANALYTICAL DATA**I. Groundwater Protection Standard****261 Appendix VIII/264 Appendix IX Hazardous Constituents**

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	15.8		6.6		4.3						ug/L	
	Cyanide	<15.2	U	1.8	J I	<15.2	JU Q					ug/L	
	Lead, total recoverable	<47	U	<47	U	22.9	J I					ug/L	
	Nickel, total recoverable	7.6	J	<26	U	3	J I					ug/L	
	Selenium, total recoverable	<66	U	<66	U	<66	U					ug/L	
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U					ug/L	
	1,1-Dichloroethane	<5	U	<5	U	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U	<5	U	<5	U					ug/L	
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U					ug/L	
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U					ug/L	
	Tetrachloroethylene	10.5		11.5		9.37						ug/L	
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U					ug/L	
	Trichloroethylene	54.1		73.1		65.6						ug/L	

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLPEPA</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	975		215		39.5	J I					ug/L	
	Nitrate-nitrite as nitrogen	1410		1520		1370						ug/L	
	Sodium, total recoverable	2990		3200		2770						ug/L	
	Sulfate	293	J	302	J I	320	J I					ug/L	
Radionuclides													
	Gross alpha	3.34		.13	U	1.12	J I					pCi/L	
	Nonvolatile beta	3.62		13.64		1.23	U					pCi/L	
	Radium, total alpha-emitting	.82		-.14	U	.1	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-8. Groundwater Monitoring Results for Plume Definition Wells, Met Lab HWMF (Cont.)

WELL AMB 15D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104500.6 E 51383.8	33.34072 Deg N -81.7345 Deg W	236.2 - 216.2 ft msl	383.4 ft msl	2" PVC	V	M

<u>SAMPLE DATE</u>	09/30/98	03/16/99	09/17/99	02/16/00
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FIELD DATA

<u>Parameter</u>	<u>3Q98</u>	<u>1Q99</u>	<u>3Q99</u>	<u>1Q00</u>	<u>Unit</u>
Water Elevation	231.5	232.24	231.2	230.62	ft msl
pH	4.9	4.7	5.3	5.3	pH
Sp. Conductance	42	28	24	26	uS/cm
Water temperature	21.5	27.1	22.3	21	deg. C
Alkalinity as CaCO3	2	2	2	1	mg/L
Turbidity	93.2	10.6	22.4	2.3	NTU
Volumes purged	.407	7.75	7.47	10.8	well volume
Sampling code	NX	X			
Synchronous water level	231.2 (09/24/98)	232.2 (03/26/99)	231.3 (09/22/99)	230.1 (03/23/00)	ft msl

ANALYTICAL DATA

I. Groundwater Protection Standard

261 Appendix VIII/264 Appendix IX Hazardous Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Barium, total recoverable	11.4		7.3		8.8		<4.35	U V	< EQL	1	ug/L	EX
	Cyanide	<15.2	U	<15.2	U	<15.2	JU Q	<10	U	< EQL	1	ug/L	EX
	Lead, total recoverable	<47	U	<47	U	<47	U	<10	U	< EQL	1	ug/L	EX
	Nickel, total recoverable	6.5	J	5.3	J I	3.4	J I	<8.41	JU V	< EQL	1	ug/L	EX
	Selenium, total recoverable	<66	U	<66	U	<66	U	<10	U	< EQL	1	ug/L	EX
Organics													
	Chlorobenzene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	trans-1,2-Dichloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	PCB 1016												
	PCB 1221												
	PCB 1232												
	PCB 1242												
	PCB 1248												
	PCB 1254												
	PCB 1260												
	1,1,2,2-Tetrachloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Tetrachloroethylene	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	1,1,1-Trichloroethane	<5	U	<5	U	<5	U	<5	U	< EQL	1	ug/L	EX
	Trichloroethylene	6.16		<5	U	<5	U	<5	U	< EQL	1	ug/L	EX

II. Monitoring Constituents

<u>ST</u>	<u>Parameter</u>	<u>3Q98</u>	<u>CLP EPA</u>	<u>1Q99</u>	<u>CLP EPA</u>	<u>3Q99</u>	<u>CLP EPA</u>	<u>1Q00</u>	<u>CLP EPA</u>	<u>Fltr.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
Inorganics													
	Aluminum, total recoverable	890		262		637		<200	U	< EQL	1	ug/L	EX
	Nitrate-nitrite as nitrogen	717		1320		1160		1080		< 2400	5	ug/L	EX
	Sodium, total recoverable	4000		2660		2800		3280		< 4600	1	ug/L	EX
	Sulfate	371	J	1030		1620		<1060	U	< EQL	2	ug/L	EX
Radionuclides													
	Gross alpha	11.07		.73	J IK	1.03	J I	.772	U	< EQL	1	pCi/L	GP
	Nonvolatile beta	6.66		-2.79	U	.8	U	.92	U	< EQL	1	pCi/L	GP
	Radium, total alpha-emitting	1.09		.19	U	.9	J I	.055	U	< EQL	1	pCi/L	GP

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for First Quarter 2000 data only.
+ = exceeded the Groundwater Protection Standards or Monitoring Constituents listed in Appendix A for First Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF
WELL AMB 7A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103987.1 E 51591	33.33992 Deg N -81.7330 Deg W	125.6 - 115.6 ft msl	373.6 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	217.22	Not Available	ft msl
pH	6		pH
Sp. Conductance	24		uS/cm
Water temperature	18.9		deg. C
Alkalinity as CaCO3	5		mg/L
Turbidity	.2		NTU
Volumes purged	2.89		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	2,4-Dichlorophenoxyacetic acid	<.2	U					ug/L	
	Acetone	<20	U					ug/L	
	Aluminum, total recoverable	<200	U					ug/L	
	Arsenic, total recoverable	<10	U					ug/L	
	Barium, total recoverable	<4.82	U V					ug/L	
	Carbon tetrachloride	1.1	J I					ug/L	
	Chloride	1540						ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Chromium, total recoverable	<10	U					ug/L	
	Cyanide	<10	U					ug/L	
	Fluoride	<200	U					ug/L	
	Gross alpha	.889	J I					pCi/L	
	Iron, total recoverable	<6.43	U V					ug/L	
	Lead, total recoverable	<10	U					ug/L	
	Lindane	<.096	U					ug/L	
	Manganese, total recoverable	5.1	J I					ug/L	
	Mercury, total recoverable	<.5	U					ug/L	
	Methyl methacrylate	<20	U					ug/L	
	Nickel, total recoverable	<11	JU V					ug/L	
	Nitrate-nitrite as nitrogen	826						ug/L	
	Nonvolatile beta	.816						pCi/L	
	Phenol	<9.7	JU LQ					ug/L	
	Radium, total alpha-emitting	.135	U					pCi/L	
	Selenium, total recoverable	<10	U					ug/L	
	Silver, total recoverable	<20	U					ug/L	
	Sodium, total recoverable	1870						ug/L	
	Sulfate	<591	U					ug/L	
	Tetrachloroethylene	44						ug/L	
	Total organic carbon	<5000	JU Q					ug/L	
	Total organic halogens	90.1	J I					ug/L	
	Total phosphates (as P)	<2500	U					ug/L	
	Trichloroethylene	79						ug/L	
	cis-1,2-Dichloroethylene	3.4	J I					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)

WELL ASB 5C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105884.8 E 52837.8	33.34615 Deg N -81.7334 Deg W	175.1 - 165.1 ft msl	347.3 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	220.28	<i>Not Available</i>	ft msl
pH	6.1		pH
Sp. Conductance	45		uS/cm
Water temperature	18.9		deg. C
Alkalinity as CaCO3	11		mg/L
Turbidity	1		NTU
Volumes purged	2.77		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	55.3	J K					ug/L	
	Trichloroethylene	182	J K					ug/L	
	cis-1,2-Dichloroethylene	3.51	J K					ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL ASB 8TA

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106375.8 E 53124.7	33.34771 Deg N -81.7336 Deg W	24.6 - 19.4 ft msl	349.6 ft msl	4 " CS	S	CBA

SAMPLE DATE 02/01/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	214.58	<i>Not Available</i>	ft msl
pH	4.9		pH
Sp. Conductance	21		uS/cm
Water temperature	18.5		deg. C
Alkalinity as CaCO3	0		mg/L
Turbidity	1.1		NTU
Volumes purged	2.26		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	JU					ug/L	
	1,1,2,2-Tetrachloroethane	<1	JU					ug/L	
	1,1-Dichloroethane	<1	JU					ug/L	
	1,1-Dichloroethylene	<1	JU					ug/L	
	1,2-Dichloroethane	<1	JU					ug/L	
	Acetone	<10	JU					ug/L	
	Carbon tetrachloride	<1	JU					ug/L	
	Chlorobenzene	.28	J					ug/L	
	Chloroethene (Vinyl chloride)	<1	JU					ug/L	
	Chloroform	<1	JU					ug/L	
	Tetrachloroethylene	<1	JU					ug/L	
	Trichloroethylene	<1	JU					ug/L	
	cis-1,2-Dichloroethylene	<1	JU					ug/L	
	trans-1,2-Dichloroethylene	<1	JU					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)

WELL MSB 5B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101971.1 E 46983.6	33.32794 Deg N -81.7412 Deg W	136.1 - 131.4 ft msl	345 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/24/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	206.48	Not Available	ft msl
pH	4.5		pH
Sp. Conductance	18		uS/cm
Water temperature	18.4		deg. C
Alkalinity as CaCO3	0		mg/L
Turbidity	.3		NTU
Volumes purged	2.50		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Aluminum, total recoverable	<40	U					ug/L	
	Arsenic, total recoverable	<20	U					ug/L	
	Barium, total recoverable	10.1	J I					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Chromium, total recoverable	<30	U					ug/L	
	Cobalt, total recoverable	<20	U					ug/L	
	Copper, total recoverable	<60	U					ug/L	
	Iron, total recoverable	16	J I					ug/L	
	Lead, total recoverable	<20	U					ug/L	
	Manganese, total recoverable	5.25	J I					ug/L	
	Mercury, total recoverable	<.2	U					ug/L	
	Nickel, total recoverable	<60	U					ug/L	
	Selenium, total recoverable	<40	U					ug/L	
	Silver, total recoverable	<50	U					ug/L	
	Sodium, total recoverable	<1550	U V					ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	10.2						ug/L	
	Zinc, total recoverable	6.68	J I					ug/L	
	cis-1,2-Dichloroethylene	1.11						ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 12B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102272.76 E 47142.09	33.32886 Deg N -81.7414 Deg W	162.4 - 157.4 ft msl	350.3 ft msl	4 " PVC	S	LLAZ

SAMPLE DATE 02/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	216.68	<i>Not Available</i>	ft msl
pH	5.1		pH
Sp. Conductance	88		uS/cm
Water temperature	18.4		deg. C
Alkalinity as CaCO3	0		mg/L
Turbidity	2.2		NTU
Volumes purged	2.50		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<50	JU					ug/L	
	1,1,2,2-Tetrachloroethane	<50	JU					ug/L	
	1,1-Dichloroethane	<50	JU					ug/L	
	1,1-Dichloroethylene	<50	JU					ug/L	
	1,2-Dichloroethane	<50	JU					ug/L	
	Acetone	<500	JU					ug/L	
	Carbon tetrachloride	<50	JU					ug/L	
	Chlorobenzene	<50	JU					ug/L	
	Chloroethene (Vinyl chloride)	<50	JU					ug/L	
	Chloroform	<50	JU					ug/L	
	Tetrachloroethylene	16400	J					ug/L	
	Trichloroethylene	17600	J					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)

WELL MSB 21B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104000.1 E 47271.8	33.33289 Deg N -81.7444 Deg W	147.2 - 142.5 ft msl	355 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/03/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	218.54	<i>Not Available</i>	ft msl
pH	5.9		pH
Sp. Conductance	23		uS/cm
Water temperature	19.1		deg. C
Alkalinity as CaCO3	5		mg/L
Turbidity	.3		NTU
Volumes purged	2.85		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	286						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 30B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105719.9 E 47981.8	33.33786 Deg N -81.7459 Deg W	128.7 - 123.1 ft msl	353.5 ft msl	4 " PVC	S	LL

SAMPLE DATE 02/02/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	223.61	<i>Not Available</i>	ft msl
pH	4.6		pH
Sp. Conductance	32		uS/cm
Water temperature	18.3		deg. C
Alkalinity as CaCO3	0		mg/L
Turbidity	.5		NTU
Volumes purged	2.98		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	<1	U					ug/L	
	cis-1,2-Dichloroethylene	<1	U					ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 41B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 102194.5 E 53417.8	33.33894 Deg N -81.7247 Deg W	114.2 - 108.6 ft msl	324 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	216.28	<i>Not Available</i>	ft msl
pH	5.9		pH
Sp. Conductance	23		uS/cm
Water temperature	19.5		deg. C
Alkalinity as CaCO3	3		mg/L
Turbidity	.7		NTU
Volumes purged	2.58		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>SI</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	6.36						ug/L	
	Trichloroethylene	3.36						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 45A

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103998.1 E 50554.7	33.33825 Deg N -81.7357 Deg W	139.2 - 129.2 ft msl	380.8 ft msl	4 " PVC	S	LL

SAMPLE DATE 03/13/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	216.33	<i>Not Available</i>	ft msl
pH	7.4		pH
Sp. Conductance	47		uS/cm
Water temperature	18.2		deg. C
Alkalinity as CaCO3	13		mg/L
Turbidity	1.1		NTU
Volumes purged	2.30		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Acetone	<50	U					ug/L	
	Carbon tetrachloride	2.35	J IK					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Tetrachloroethylene	102	J K					ug/L	
	Trichloroethylene	792	J K					ug/L	
	cis-1,2-Dichloroethylene	4.55	J IK					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)

WELL MSB 64D

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 101854.8 E 46598.5	33.32705 Deg N -81.7420 Deg W	230.1 - 210.1 ft msl	348.6 ft msl	4 " PVC	S	M

SAMPLE DATE 02/15/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	225.78	Not Available	ft msl
pH	5.8		pH
Sp. Conductance	94		uS/cm
Water temperature	19.2		deg. C
Alkalinity as CaCO3	15		mg/L
Turbidity	.9		NTU
Volumes purged	3.64		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Aluminum, total recoverable	<29.2	U					ug/L	
	Arsenic, total recoverable	<20	U					ug/L	
	Barium, total recoverable	12.6	J I					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Chromium, total recoverable	<30	U					ug/L	
	Cobalt, total recoverable	<20	U					ug/L	
	Copper, total recoverable	<60	U					ug/L	
	Cyanide	<20	U					ug/L	
	Iron, total recoverable	21.2	J I					ug/L	
	Lead, total recoverable	<20	U					ug/L	
	Manganese, total recoverable	7.96	J I					ug/L	
	Mercury, total recoverable	<.128	JU L					ug/L	
	Nickel, total recoverable	<60	U					ug/L	
	Selenium, total recoverable	<40	U					ug/L	
	Silver, total recoverable	<50	U					ug/L	
	Sodium, total recoverable	17000						ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	<1	U					ug/L	
	Zinc, total recoverable	<21.5	U V					ug/L	
	cis-1,2-Dichloroethylene	<1	U					ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 68B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 106744.9 E 52308.5	33.34719 Deg N -81.7365 Deg W	133 - 128.3 ft msl	356.9 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 03/29/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	216.82	Not Available	ft msl
pH	5.7		pH
Sp. Conductance	25		uS/cm
Water temperature	18.6		deg. C
Alkalinity as CaCO3	2		mg/L
Turbidity	1.1		NTU
Volumes purged	3.51		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	12.8						ug/L	
	Trichloroethylene	199						ug/L	
	cis-1,2-Dichloroethylene	5.88						ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 77C

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107078.3 E 54225.9	33.35106 Deg N -81.7321 Deg W	173.2 - 168.5 ft msl	357.2 ft msl	4 " PVC	S	UL

SAMPLE DATE 03/11/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	222.26	<i>Not Available</i>	ft msl
pH	6.2		pH
Sp. Conductance	27		uS/cm
Water temperature	18.9		deg. C
Alkalinity as CaCO3	13		mg/L
Turbidity	.8		NTU
Volumes purged	2.95		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	15.9						ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL MSB 83B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 108426.7 E 52421.4	33.35109 Deg N -81.7394 Deg W	146.3 - 141.6 ft msl	371.8 ft msl	4 " PVC	S	MCBC

SAMPLE DATE 02/10/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	220.78	<i>Not Available</i>	ft msl
pH	5.3		pH
Sp. Conductance	20		uS/cm
Water temperature	18.6		deg. C
Alkalinity as CaCO3	2		mg/L
Turbidity	.7		NTU
Volumes purged	2.53		well volume
Sampling code			
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)

WELL RWM 2

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 104434.1 E 49205.5	33.33701 Deg N -81.7401 Deg W	148.3 - 138.3 ft msl	371.3 ft msl	8 " CS	S	UNK

SAMPLE DATE 06/02/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	Not Available	Not Available	ft msl
pH		4.8	pH
Sp. Conductance		81	uS/cm
Water temperature		22.9	deg. C
Alkalinity as CaCO3		0	mg/L
Turbidity		.8	NTU
Volumes purged			well volume
Sampling code		C	
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane			<50	JU L	< EQL	50	ug/L	ML
	1,1,2,2-Tetrachloroethane			<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethane			<50	JU L	< EQL	50	ug/L	ML
	1,1-Dichloroethylene			<50	JU L	< EQL	50	ug/L	ML
	1,2-Dichloroethane			<50	JU L	< EQL	50	ug/L	ML
	Acetone			<500	JU L	< EQL	50	ug/L	ML
	Carbon tetrachloride			<50	JU L	< EQL	50	ug/L	ML
	Chlorobenzene			<50	JU L	< EQL	50	ug/L	ML
	Chloroethene (Vinyl chloride)			<50	JU L	< EQL	50	ug/L	ML
	Chloroform			<50	JU L	< EQL	50	ug/L	ML
	Tetrachloroethylene			12900	J L	NDD	50	ug/L	ML
	Trichloroethylene			8820	J L	NDD	50	ug/L	ML
	cis-1,2-Dichloroethylene			<50	JU L	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene			<50	JU L	< EQL	50	ug/L	ML

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 4

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 103719.3 E 48948.2	33.33501 Deg N -81.7394 Deg W	211.9 - 201.6 ft msl	366.5 ft msl	8 " CS	S	M/GC/UL/LL

SAMPLE DATE	01/18/00	06/19/00
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FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	207.25	<i>Not Available</i>	ft msl
pH	5.4	6.5	pH
Sp. Conductance	24	22	uS/cm
Water temperature	15.9	24	deg. C
Alkalinity as CaCO3	1	3	mg/L
Turbidity	.4	.7	NTU
Volumes purged	.084		well volume
Sampling code	C	C	
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<50	U	<50	U	< EQL	50	ug/L	ML
	1,1,2,2-Tetrachloroethane	<50	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethane	<50	U	<50	U	< EQL	50	ug/L	ML
	1,1-Dichloroethylene	<50	U	<50	U	< EQL	50	ug/L	ML
	1,2-Dichloroethane	<50	U	<50	U	< EQL	50	ug/L	ML
	Acetone	<500	U	<500	U	< EQL	50	ug/L	ML
	Carbon tetrachloride	<50	U	<50	U	< EQL	50	ug/L	ML
	Chlorobenzene	<50	U	<50	U	< EQL	50	ug/L	ML
	Chloroethene (Vinyl chloride)	<50	U	<50	U	< EQL	50	ug/L	ML
	Chloroform	<50	U	<50	U	< EQL	50	ug/L	ML
	Tetrachloroethylene	1580		1010	J K	NDD	50	ug/L	ML
	Trichloroethylene	7310		6140	J K	NDD	50	ug/L	ML
	cis-1,2-Dichloroethylene	<50	U	<50	U	< EQL	50	ug/L	ML
	trans-1,2-Dichloroethylene	<50	U	<50	U	< EQL	50	ug/L	ML

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 13B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 105803.3 E 53516.3	33.34708 Deg N -81.7315 Deg W	138.2 - 113 ft msl	336.2 ft msl	6 " CS		LL

SAMPLE DATE 02/16/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	201.3	<i>Not Available</i>	ft msl
pH	5		pH
Sp. Conductance	21		uS/cm
Water temperature	19.1		deg. C
Alkalinity as CaCO3	0		mg/L
Turbidity	.9		NTU
Volumes purged			well volume
Sampling code	C		
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<5	U					ug/L	
	1,1,2,2-Tetrachloroethane	<5	U					ug/L	
	1,1-Dichloroethane	<5	U					ug/L	
	1,1-Dichloroethylene	<5	U					ug/L	
	1,2-Dichloroethane	<5	U					ug/L	
	Acetone	<50	U					ug/L	
	Carbon tetrachloride	<5	U					ug/L	
	Chlorobenzene	<5	U					ug/L	
	Chloroethene (Vinyl chloride)	<5	U					ug/L	
	Chloroform	<5	U					ug/L	
	Tetrachloroethylene	9.95						ug/L	
	Trichloroethylene	678						ug/L	
	cis-1,2-Dichloroethylene	3.15	J I					ug/L	
	trans-1,2-Dichloroethylene	<5	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

Table D-9A. Groundwater Monitoring Results for QA Wells, M-Area and Met Lab HWMF (Cont.)
WELL RWM 15B

<u>SRS Coord.</u>	<u>Lat/Longitude</u>	<u>Screen Zone Elevation</u>	<u>Top of Casing</u>	<u>Casing</u>	<u>Pump</u>	<u>Screen Zone</u>
N 107444.7 E 53849	33.35125 Deg N -81.7338 Deg W	150.9 - 125.8 ft msl	368.4 ft msl	6 " CS		LL

SAMPLE DATE 03/23/00

FIELD DATA

<u>Parameter</u>	<u>1Q00</u>	<u>2Q00</u>	<u>Unit</u>
Water Elevation	206.9	<i>Not Available</i>	ft msl
pH	5.2		pH
Sp. Conductance	21		uS/cm
Water temperature	16.6		deg. C
Alkalinity as CaCO ₃	1		mg/L
Turbidity	.4		NTU
Volumes purged	.008		well volume
Sampling code	C		
Synchronous water level	()	()	ft msl

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	1,1,1-Trichloroethane	<1	U					ug/L	
	1,1,2,2-Tetrachloroethane	<1	U					ug/L	
	1,1-Dichloroethane	<1	U					ug/L	
	1,1-Dichloroethylene	<1	U					ug/L	
	1,2-Dichloroethane	<1	U					ug/L	
	Acetone	<10	U					ug/L	
	Carbon tetrachloride	<1	U					ug/L	
	Chlorobenzene	<1	U					ug/L	
	Chloroethene (Vinyl chloride)	<1	U					ug/L	
	Chloroform	<1	U					ug/L	
	Tetrachloroethylene	<1	U					ug/L	
	Trichloroethylene	20.7	J K					ug/L	
	cis-1,2-Dichloroethylene	<1	U					ug/L	
	trans-1,2-Dichloroethylene	<1	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

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**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF
WELL AMB 4A**

SAMPLE DATE 02/23/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	.238	U					pCi/L	
	Nonvolatile beta	.409	U					pCi/L	
	Radium, total alpha-emitting	-.128	U					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 7**

SAMPLE DATE 02/15/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Chloride	1860						ug/L	
	Fluoride	<200	U					ug/L	
	Nitrate-nitrite as nitrogen	390	J I					ug/L	
	Sulfate	19700						ug/L	
	Total phosphates (as P)	<2500	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 7A**

SAMPLE DATE 02/23/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	2,4-Dichlorophenoxyacetic acid	<2.08	U					ug/L	
	Cyanide	<15.2	JU LQ					ug/L	
	Fluoride	<19.3	U V					ug/L	
	Gross alpha	1.05	J I					pCi/L	
	Lindane	<.05	JU Q					ug/L	
	Nitrate-nitrite as nitrogen	870	J Q					ug/L	
	Nonvolatile beta	1.48	U					pCi/L	
	Phenol	<10	JU Q					ug/L	
	Radium, total alpha-emitting	2.49	U V					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 8D**

SAMPLE DATE 02/14/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Total organic halogens	15.5	J IQ					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL AMB 12D**

SAMPLE DATE 02/14/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Chloride	1320						ug/L	
	Fluoride	<200	U					ug/L	
	Nitrate-nitrite as nitrogen	620						ug/L	
	Sulfate	904	J I					ug/L	
	Total phosphates (as P)	<2500	U					ug/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 29B**

SAMPLE DATE 02/15/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Radium, total alpha-emitting	.417	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 29C**

SAMPLE DATE 02/15/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	2.17	J I					pCi/L	
	Nonvolatile beta	2.29	J I					pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-9B. Groundwater Monitoring Results for All Wells (Lab Duplicates), M-Area and Met Lab HWMF (Cont.)
WELL MSB 29D**

SAMPLE DATE 02/16/00

ANALYTICAL DATA

<u>ST</u>	<u>Parameter</u>	<u>1Q00</u>	<u>CLPEPA</u>	<u>2Q00</u>	<u>CLPEPA</u>	<u>Filt.</u>	<u>DF</u>	<u>Unit</u>	<u>Lab</u>
	Gross alpha	17.8						pCi/L	
	Nonvolatile beta	6.81						pCi/L	

Notes: Concentrations in bold italics exceed the groundwater protection or monitoring constituent standards listed in Appendix A. Synchronous water levels are measured over a 3-5 day period or less. Dilution factors, Laboratory, and Filtered Data are for Second Quarter 2000 data only.
+ = exceeded the groundwater protection or monitoring constituent standards listed in Appendix A for Second Quarter 2000.

**Table D-10 Constituents Exceeding the Groundwater Protection or Monitoring Constituents
Standard in Point of Compliance Wells, M Area HWMF**

Well Name	Constituent	Unit	1Q00	CLP
M-Area Aquifer Zone				
MSB 8A	Tetrachloroethylene	ug/L	36.7	
MSB 62D	Tetrachloroethylene	ug/L	32.7	
MSB 62D	Trichloroethylene	ug/L	8.51	
Upper Lost Lake Aquifer Zone				
MSB 6C	Trichloroethylene	ug/L	11.3	
MSB 7C	Tetrachloroethylene	ug/L	62.1	
MSB 7C	Trichloroethylene	ug/L	20.9	
MSB 8C	1,1-Dichloroethylene	ug/L	7.96	
MSB 8C	Tetrachloroethylene	ug/L	68.1	
MSB 8C	Trichloroethylene	ug/L	43.4	
Lower Lost Lake Aquifer Zone				
MSB 63B	Chlorobenzene	ug/L	6.5	
MSB 63B	Tetrachloroethylene	ug/L	125	

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Table D-11 Constituents Exceeding the Groundwater Protection or Monitoring Constituents Standard in Point of Compliance Wells, Met Lab HWMF

Well Name	Constituent	Unit	1Q00	CLP
M-Area Aquifer Zone				
AMB 6	Sodium, total recoverable	ug/L	7030	
AMB 6	Sulfate	ug/L	4010	
AMB 8D	Sodium, total recoverable	ug/L	6810	
AMB 9D	Sodium, total recoverable	ug/L	9760	
Upper Lost Lake Aquifer Zone				
AMB 18C	Lead, total recoverable	ug/L	15.7	
AMB 19C	Lead, total recoverable	ug/L	98.8	
AMB 19C	Sodium, total recoverable	ug/L	10300	
AMB 19C	Sulfate	ug/L	5160	
Lower Lost Lake Aquifer Zone				
AMB 10B	Sodium, total recoverable	ug/L	4950	
Middle Sand Aquifer Zone-Crouch Branch Confining Unit				
AMB 17A	Tetrachloroethylene	ug/L	25	
AMB 17A	Total organic halogens	ug/L	148	
AMB 17A	Trichloroethylene	ug/L	170	
AMB 18A	Trichloroethylene	ug/L	24	

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Table D-12. Summary of Operating and Performance of the M-1 Air Stripper CY2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Average Operating Time (hrs)	744	696	641	705.5	734	660	4,180.5
Downtime (hrs)	0	0	103	14.5	10	60	187.5
Throughput (gal)	15,808,480	14,515,776	15,883,980	19,192,422	20,349,000	18,074,150	103,823,808
Total Solvent Removed (lbs)	922.68	847.23	974.76	744.12	1,090.98	863.52	5,443.29
TCE Solvent Removed (lbs)	461.61	423.86	564.53	416.31	597.59	474.99	2,963.81
PCE Solvent Removed (lbs)	461.61	423.86	410.81	328.25	494.03	389.04	2546.59
Average Concentration (µg/L)							
Stripper Influent							
PCE	3500	3500	3100	2050	2910	2580	2,940
TCE	3500	3500	4260	2600	3520	3150	3,422
Total	7,000	7,000	7,360	4,650	6,430	5,730	6,362
Stripper Effluent							
PCE	0	0	0	0	0	0	0
TCE	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

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Table D-13. Summary of Operating and Performance of the A-2 Air Stripper CY2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Average Operating Time (hrs)	738.5	696	727.5	720	741	720	4343
Downtime (hrs)	5.5	0	16.5	0	3	0	25
Throughput (gal)	13,177,815	10,932,768	10,934,325	11,499,840	12,742,236	12,814,949	72,101,933
Total Solvent Removed (lbs.)	158.2	129.4	125.8	108.1	113.6	124.0	759.3
PCE Removed (Pounds)	1.10	0.90	0.91	2.18	1.02	1.14	7.30
TCE Removed (Pounds)	157.22	128.61	124.98	106.02	112.69	122.95	754.43
Average Concentration (µg/L)							
Stripper Influent							
PCE	10	9.85	10	22.7	9.55	10.7	12
TCE	1430	1410	1370	1105	1060	1150	1,254
Total	1440	1420	1380	1128	1070	1161	1,266
Stripper Effluent							
PCE	0	0	0	0	0	0	0
TCE	1.5	1.6	1.4	1.5	1.2	1	1
Total	1.5	1.6	1.4	1.5	1.2	1	1

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Table D-14. Summary of Operation of the SVEU Vadose Unit 782-3M for CY2000

Operation Parameter	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Operating Time (hours)	744	678.5	741	720	737	716	4336.5
Downtime (hours)	0	17.5	3	0	7	4	31.5
Total Solvent Removed (lbs.)	1516.56	1151.37	1118.31	1077.60	1219.95	1210.64	7294.43
Average Vapor Flow Rate (scfm)	570.97	541.10	532.93	517.33	527.26	536.89	537.75
Average Concentration Influent (ppmv)	141.26	125.04	113.01	114.94	124.70	125.29	124.04

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Table D-15. Summary of Operation of the SVEU Vadose Unit 782-4M for CY2000

Operation Parameter	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Operating Time (hours)	744	690	736	720	744	718	4352
Downtime (hours)	0	6	8	0	0	2	16
Total Solvent Removed (lbs.)	1520.16	1816.02	1549.60	1479.36	1800.24	1498.62	9664.00
Average Vapor Flow Rate (scfm)	369.10	392.04	378.50	369.67	376.13	368.53	375.66
Average Concentration Influent (ppmv)	226.06	272.11	225.82	225.62	260.35	228.54	239.75

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Table D-16. Summary of Operation of the SVEU Vadose Unit 782-5M for CY2000

Operation Parameter	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Operating Time (hours)	0	0	0	0	0	0	0
Downtime (hours)	744	696	744	720	744	720	4368
Total Solvent Removed (lbs.)	0	0	0	0	0	0	0
Average Vapor Flow Rate (scfm)	0	0	0	0	0	0	0
Average Concentration Influent (ppmv)	0	0	0	0	0	0	0

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M-Area and Met Lab HWMFs

D16-2

First and Second Quarters 2000

Table D-17. Summary of Operation of the SVEU Vadose Unit 782-6M for CY2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Operating Time (hours)	742.5	695.5	156	0	0	0	1594
Downtime (hours)	1.5	0.5	588	720	744	720	2774
Total Solvent Removed (lbs.)	1892.64	2570.77	533.52	0	0	0	4996.93
Average Vapor Flow Rate (scfm)	589.37	629.98	249.92	0	0	0	489.76
Average Concentration Influent (ppmv)	193.36	234.66	545.00	0	0	0	324.34

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Table D-18. Summary of Operation of the SVEU Vadose Unit 782-7M for CY2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Operating Time (hours)	742.5	694.5	744	720	741	720	4362
Downtime (hours)	1.5	1.5	0	0	3	0	6
Total Solvent Removed (lbs.)	270.63	227.33	203.52	184.92	156.55	130.56	1173.51
Average Vapor Flow Rate (scfm)	325.00	325.00	325.00	325.00	325.00	325.00	325.00
Average Concentration Influent (ppmv)	47.88	43.37	35.90	33.10	27.34	24.65	35.37

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Table D-19. Summary of Operation of the SVEU Vadose Unit 782-8M for CY2000

<u>Operation Parameter</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Total / Average</u>
Operating Time (hours)	0	0	0	0	0	0	0
Downtime (hours)	744	696	744	720	744	720	4368
Total Solvent Removed (lbs.)	0	0	0	0	0	0	0
Average Vapor Flow Rate (scfm)	0	0	0	0	0	0	0
Average Concentration Influent (ppmv)	0	0	0	0	0	0	0

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Table D-20. Summary of Volume Pumped from Recovery Wells 2000

Well Number	Jan-2000				Feb-2000				Mar-2000			
	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)
RWM1	561,495.00	146,458,832.00	20.4	459.6	779,787.00	147,238,619.00	18.9	689	711,620.00	147,950,239.00	19.6	605.9
RWM2	1,166,010.00	141,318,918.00	25.9	750	1,070,185.00	142,389,103.00	25.8	690.4	946,548.00	143,335,651.00	25.9	609.6
RWM3	2,610,997.00	383,507,539.00	58	750	2,499,069.00	386,006,608.00	60.3	690.4	2,217,866.00	388,224,474.00	60.6	609.8
RWM4	1,298,174.00	258,104,084.00	47.2	458.8	1,976,450.00	260,080,534.00	47.7	690	1,815,040.00	261,895,574.00	47.4	638.3
RWM5	2,187,575.00	258,136,316.00	48.8	747.7	2,029,169.00	260,165,485.00	48.9	692.3	1,795,791.00	261,961,276.00	48.4	618.1
RWM6	3,090,528.00	363,378,351.00	68.8	749	2,880,396.00	366,258,747.00	69.3	693.2	2,526,468.00	368,785,215.00	68.6	613.8
RWM7	1,735,148.00	214,400,237.00	38.6	749.8	1,547,718.00	215,947,955.00	38.5	670	1,383,268.00	217,331,223.00	37.9	608.6
RWM8	793,979.00	227,073,464.00	45.9	288.3	1,897,443.00	228,970,907.00	45.9	688.4	1,689,691.00	230,660,598.00	45.8	615.3
RWM9	838,016.00	249,262,458.00	47.5	294.1	66,811.00	249,329,269.00	46.4	24	1,034,207.00	250,363,476.00	46.1	373.9
RWM10	943,427.00	146,840,764.00	34.2	459.7	1,430,024.00	148,270,788.00	36.5	652.5	1,286,208.00	149,556,996.00	33.6	638
RWM11	2,101,300.00	147,998,637.00	73.6	476	0	147,998,637.00	0	0.1	1,629,597.00	149,628,234.00	72.7	373.8
RWM12	2,203,769.00	148,101,106.00	49.6	740	2,070,413.00	150,171,519.00	49.6	696.4	2,092,886.00	152,264,405.00	47.4	736.5
RWM13B	1,839,817.00	147,737,154.00	41.2	744.4	1,692,633.00	149,429,787.00	40.9	690	1,730,101.00	151,159,888.00	40.9	704.9
RWM13C	3,124,632.00	149,021,969.00	69.9	744.5	2,886,535.00	151,908,504.00	69.7	689.9	2,949,763.00	154,858,267.00	69.7	704.9
RWM14B	2,064,247.00	147,961,584.00	46.5	739.5	1,939,107.00	149,900,691.00	46.4	695.9	1,962,004.00	151,862,695.00	46.4	704.4
RWM14C	1,857,195.00	147,754,532.00	43.1	718.3	1,797,435.00	149,551,967.00	43	695.9	1,815,611.00	151,367,578.00	43	704.3
RWM15B	1,963,511.00	147,860,848.00	44	744.4	1,822,140.00	149,682,988.00	43.8	692.7	1,850,121.00	151,533,109.00	43.8	704.7

M-Area and Met Lab HWMFs

D20-1

First and Second Quarters 2000

Table D-20. (cont.) Summary of Volume Pumped from Recovery Wells 2000

Well Number	Apr-2000				May-2000				Jun-2000			
	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)
RWM1	818,162.00	148,768,401.00	18.7	729.2	786,074.00	149,554,475.00	18.2	718.5	768,052.00	150,322,527.00	19.2	667.6
RWM2	1,112,977.00	144,448,628.00	25.4	730.3	1,093,240.00	145,541,868.00	25.3	721.3	406,865.00	145,948,733.00	25.1	270.4
RWM3	2,620,744.00	390,845,218.00	59.9	729.2	2,582,267.00	393,427,485.00	59.7	720.4	2,460,708.00	395,888,193.00	61.1	671.7
RWM4	1,990,917.00	263,886,491.00	47.1	704.5	2,044,407.00	265,930,898.00	47.2	721.7	1,909,471.00	267,840,369.00	47.4	672.1
RWM5	2,103,894.00	264,065,170.00	48.1	729	2,083,432.00	266,148,602.00	48.2	720.2	1,937,930.00	268,086,532.00	48.3	668.8
RWM6	2,982,888.00	371,768,103.00	68	731.1	2,950,797.00	374,718,900.00	67.8	725	2,746,254.00	377,465,154.00	68.8	665.2
RWM7	1,566,328.00	218,897,551.00	35.6	733.3	1,597,536.00	220,495,087.00	36.7	724.8	1,180,539.00	221,675,626.00	37.7	521.5
RWM8	1,990,374.00	232,650,972.00	48.1	689.7	2,005,456.00	234,656,428.00	43.9	761.8	1,855,207.00	236,511,635.00	46.2	668.8
RWM9	1,954,088.00	252,317,564.00	46.7	697.4	2,004,357.00	254,321,921.00	47.6	701.3	1,837,570	256,159,491.00	46.1	664.6
RWM10	1,412,072.00	150,969,068.00	32.2	729.9	1,353,150.00	152,322,218.00	32.3	697.6	1,181,812.00	153,504,030.00	32.6	604.7
RWM11	3,065,605.00	152,693,839.00	71.7	712.6	3,015,227.00	155,709,066.00	69.6	721.7	2,865,356.00	158,574,422.00	71.9	664.5
RWM12	2,204,706.00	154,469,111.00	51.9	708.1	2,211,600.00	156,680,711.00	49.5	744.5	2,059,078	158,739,789.00	49.3	696.2
RWM13B	1,818,374.00	152,978,262.00	40.8	742.8	1,821,543.00	154,799,805.00	40.8	743.2	1,694,928.00	156,494,733.00	40.7	693.8
RWM13C	3,106,389.00	157,964,656.00	69.7	742.8	3,085,561.00	161,050,217.00	70	740.1	2,886,276.00	163,936,493.00	69.4	693.6
RWM14B	2,062,666.00	153,925,361.00	46.4	740.9	2,066,132.00	155,991,493.00	46.4	742.7	1,918,957.00	157,910,450.00	46.3	691.2
RWM14C	1,907,334.00	153,274,912.00	42.9	741	1,866,112.00	155,141,024.00	42.9	724.6	1,793,459.00	156,934,483.00	42.9	696.1
RWM15B	1,948,670.00	153,481,779.00	43.7	743.2	1,953,921.00	155,435,700.00	43.8	742.8	1,821,735.00	157,257,435.00	43.8	693.8

M-Area and Met Lab HWMFs

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First and Second Quarters 2000

Table D-21 Summary of Average Tetrachloroethylene (PCE) & Trichloroethylene (TCE) Concentrations in Recovery Wells

Well Number	Jan 2000			Feb 2000			Mar 2000		
	PCE (µg/L)	TCE (µg/L)	Total (µg/L)	PCE (µg/L)	TCE (µg/L)	Total (µg/L)	PCE (µg/L)	TCE (µg/L)	Total (µg/L)
RWM 1	4,490	10,500	14,990	19,900	23,200	43,100	17,800	32,900	50,700
RWM 2	12,800	12,200	25,000	13,400	12,100	25,500	11,500	14,200	25,700
RWM 3	1,010	3,580	4,590	1,040	3,360	4,400	820	4,020	4,840
RWM 4	<i>1,585</i>	<i>6,730</i>	8,315	1,100	6,450	7,550	1,510	8,700	10,210
RWM 5	569	1,360	1,929	647	1,640	2,287	524	1,680	2,204
RWM 6	134	2,470	2,604	2,950	2,100	5,050	3,110	2,730	5,840
RWM 7	164	8,000	8,164	9,220	6,730	15,950	9,740	8,500	18,240
RWM 8	848	1,250	2,098	961	1,220	2,181	734	1,280	2,014
RWM 9	9	169	178	10	166	176	7	172	179
RWM 10	16,800	4,180	20,980	12,265	6,375	18,640	9,030	5,220	14,250
RWM 11	8	890	898	38	463	501	25	177	202
RWM 12	20	2,000	2,020	8	2,280	2,288	9	2,100	2,109
RWM 13B	5	613	618	<i>9</i>	<i>605</i>	614	6	579	585
RWM 13C	3	950	953	23	993	1,016	13	739	752
RWM 14B	5	737	742	6	783	789	6	711	717
RWM 14C	20	4,150	4,170	22	4,070	4,092	31	5,640	5,671
RWM 15B	1	26	27	1	23	24	2	22	24

NOTE: Numbers in **bold** are estimated because of missing data or equipment malfunction. Numbers in *italics* are averages of two or more samples.

Table D-21 Summary of Average Tetrachloroethylene (PCE) & Trichloroethylene (TCE) Concentrations in Recovery Wells
(Cont.)

Well Number	PCE (µg/L)	Apr 2000		PCE (µg/L)	May 2000		PCE (µg/L)	Jun 2000	
		TCE (µg/L)	Total (µg/L)		TCE (µg/L)	Total (µg/L)		TCE (µg/L)	Total (µg/L)
RWM 1	22,900	29,000	51,900	20,200	28,367	48,567	14,800	18,100	32,900
RWM 2	14,200	15,400	29,600	13,033	13,900	26,933	12,750	8,820	21,570
RWM 3	<i>811</i>	<i>2,920</i>	3,731	890	3,433	4,324	700	3,080	3,780
RWM 4	1,070	6,090	7,160	1,227	7,080	8,307	<i>1,250</i>	<i>7,300</i>	8,550
RWM 5	523	1,530	2,053	565	1,617	2,181	585	1,550	2,135
RWM 6	2,960	2,480	5,440	3,007	2,437	5,443	2,600	1,980	4,580
RWM 7	9,770	8,150	17,920	9,577	7,793	17,370	5,340	1,410	6,750
RWM 8	1,020	1,660	2,680	905	1,387	2,292	431	743	1,174
RWM 9	6	120	126	8	153	160	<i>11</i>	<i>205</i>	216
RWM 10	15,500	7,530	23,030	12,265	6,375	18,640	<i>17,700</i>	<i>6,225</i>	23,925
RWM 11	51	749	800	38	463	501	42	<i>475</i>	517
RWM 12	<i>39</i>	1,760	1,799	19	2,047	2,065	22	1,969	1,991
RWM 13B	8	622	630	8	602	610	7	496	503
RWM 13C	20	873	893	19	868	887	16	737	753
RWM 14B	21	660	681	11	718	729	13	696	709
RWM 14C	81	3,640	3,721	45	4,450	4,495	52	4,577	4,629
RWM 15B	1	22	23	1	23	24	1	19	20

NOTE: Numbers in **bold** are estimated because of missing data or equipment malfunction. Numbers in *italics* are averages of two or more samples.

Table D-22. Horizontal Gradients and Flow Rates in the Five Aquifer Zones**First Quarter 2000**

Aquifer Zone	Transect	Horizontal Gradient	Flow Rate (ft/day)	Flow Rate (ft/year)
M-Area	A-A' ^a	0.0073	0.99	361
	B-B'	0.0026	0.35	128
Upper Lost Lake	A-A'	0.0024	0.54	197
Lower Lost Lake	A-A'	0.0039	0.61	222
	B-B'	0.0025	0.92	337
Middle Sand of the CBCU	A-A'	0.0039	0.88	320
	B-B'	0.0017	0.38	140
Crouch Branch	A-A'	0.0034	0.68	248

Second Quarter 2000

Aquifer Zone	Transect	Horizontal Gradient	Flow Rate (ft/day)	Flow Rate (ft/year)
M-Area	A-A' ^a	0.0025	0.34	123
	B-B'	0.0067	0.90	330
Upper Lost Lake	A-A'	0.0026	0.59	213
	B-B'	0.0029	0.65	238
Lower Lost Lake	A-A'	0.0025	0.56	205
	B-B'	0.0021	0.47	172
Middle Sand of the CBCU	A-A'	0.0040	0.90	329
	B-B'	0.0015	0.34	123
Crouch Branch	A-A'	0.0031	0.62	226

^a Gradients were determined along transects oriented to represent the minimum and maximum gradient evident on the piezometric and potentiometric maps in Appendix H (Volume III) of this report.

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Volume II

Appendix E

Data Quality/Usability Assessment

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Data Quality/Usability Assessment

Quality assurance/quality control (QA/QC) procedures relating to accuracy and precision of analyses performed on groundwater samples are followed in the field and laboratory, and QC data are reviewed prior to publication of results. The review by the Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) of the volume of analytical data acquired each quarter and presented in various reports is an ongoing process; EPD/EMS' review of the QC data cannot be completed in time to meet the deadlines for the groundwater monitoring reports required by the Resource Conservation and Recovery Act and associated regulations. Beginning first quarter 1996, the *Quality Control Samples* section of EMS' quarterly groundwater monitoring report contains detailed evaluation of the following indicators of data quality: precision, accuracy, representativeness, comparability, and completeness. Site and regulatory personnel can obtain further information on the data quality and usability in a variety of ways, including those described below.

Data Qualification

The contract laboratories continually assess their own accuracy and precision according to U.S. Environmental Protection Agency (EPA) guidelines. They submit sample- or batch-specific QC information either at the same time as analytical results or in quarterly summaries. Properly defined and used modifiers (also referred to as qualifiers) can be a key component in assessing data usability. Modifiers designed by EPA or EPD/EMS and used by the primary laboratories or EMS' data validators are presented in Appendix D.

Assessment of Accuracy of the Data

Accuracy, or the nearness of the reported result to the true concentration of a constituent in a sample, can be assessed in several ways.

A laboratory's general accuracy can be judged by evaluation of results obtained from known samples. The contract laboratories analyze commercial reference samples periodically at EPD/EMS' request. The results of these analyses from the non-radionuclide laboratories are presented in the EPD/EMS groundwater monitoring quarterly reports; the results from the radionuclide laboratories should be available on request from the laboratory subcontract representatives. The primary laboratories also seek or maintain state certification by participating periodically in performance studies. Reference samples and evaluation of results are provided by EPA. Results of these studies also are published in the EPD/EMS quarterly reports.

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

Surrogates, organic compounds similar in chemical behavior to the compounds of interest but not normally found in environmental samples, are used to monitor the effect of the matrix on the accuracy of analyses for organic parameters. For example, for analyses of volatile organics by EPA Method 8240, three surrogate compounds are added to all samples and blanks in each analytical batch. In analyses of semivolatile organics by EPA Method 8270, three surrogates are required and an additional compound is advised for each fraction (acids and base/neutrals). Two surrogates are used in organochlorine pesticides analyses. Percent recoveries for surrogate analyses are calculated by laboratory personnel, reported to EPD/EMS, reviewed, and entered into the database. Beginning first quarter 1996, statistical summaries are published in the *Quality Control Samples*

section of the EPD/EMS quarterly groundwater monitoring report. If recoveries are not within specified limits, the laboratory is expected to reanalyze the samples or attach qualifiers to the data identifying the anomalous results.

Sample-specific accuracy for both organic and inorganic parameters can be assessed by examination of matrix spike/matrix spike duplicate results. A portion of the sample is analyzed unspiked to determine a baseline set of values. A second portion of the sample is spiked with known concentrations of compounds appropriate to the analyses being performed, typically five volatile organic compounds for volatile organics analyses, eleven semivolatile compounds for semivolatiles, six pesticide compounds for pesticides, all metals for metals analyses by SW-846 methods (EPA, 1986), and a known quantity of cyanide for cyanide analysis. The percentage of the spike compound that is recovered (i.e., measured in excess of the value obtained for the unspiked sample) is a direct measure of analytical accuracy. EPA requires matrix spike/matrix spike duplicates to be run at least once per 20 samples of similar matrix.

Matrix spike/matrix spike duplicate results are reported to EPD/EMS. Beginning first quarter 1996, spike results and a statistical summary are published in the *Quality Control Samples* section of the EPD/EMS quarterly groundwater monitoring report. For organic compounds, according to EPA guidelines, no action is taken on the basis of matrix spike/matrix spike duplicate data alone (i.e., no result modifiers are assigned solely on the basis of matrix spike results); however, the results can indicate if a laboratory is having a systemic problem in the analysis of one or more analytes.

In the case of inorganic compounds, such as metals, the matrix spike sample analysis provides information about the effect of each sample matrix on the digestion and measurement methodology. Data qualifiers assigned by the laboratories on the basis of the percentage of spike recovery are reported in the EPD/EMS results tables.

Assessment of Precision

Precision of the analyses, or agreement of a set of replicate results among themselves, is assessed through the use of duplicates initiated by the laboratory and blind replicates provided by EPD/EMS. The results of duplicate and replicate analyses are presented in results tables that report only one quarter of data. Results tables that include more than one quarter of data present only the highest result for each analyte for each quarter of the year.

The laboratories assess precision by calculating the relative percent difference (RPD) for each pair of laboratory-initiated duplicate results. The EMS data validators apply a data qualifier to the results of entire preparation batches of metals analyses when the RPD for laboratory duplicates is greater than 20 percent and either the difference between the two samples is greater than the contract-required detection limit (CRDL) or both sample results are greater than 5 times the CRDL. This qualifier is published in the EPD/EMS quarterly reports.

Additional statistical comparisons of laboratory duplicate and blind replicate results, both intra- and interlaboratory, are presented in the EPD/EMS quarterly reports. The calculation used for these reports is the mean relative difference (MRD), which is similar to EPA's RPD except that the MRD is the average of all the RPD values from one laboratory for each compound (intralaboratory MRD) or all the RPD values from all laboratories for each compound (interlaboratory MRD) during one quarter. Because detection limits may vary among samples, the MRD requires calculation of a reference detection limit, which is the detection limit at the 90th percentile of the array of limits in the population of all duplicate and replicate analyses for a given analyte during a particular quarter. The MRD is not method-specific.

Method-Specific Accuracy and Precision

The contract laboratories' EPA-approved laboratory procedures include QA/QC requirements as an integral part of the methods. Thus, knowledge of the method used in obtaining data is an important component of determining data usability. EPA has conducted extensive research and development on the methods approved for the analysis of water and wastewater. Information on the accuracy and precision of a method is available from EPA publications, as is full information on required QA/QC

procedures. A listing of the methods used by the primary laboratories during fourth quarter 1995 is given below, along with the source for the method description. Many, if not all, of these sources include presentations of representative accuracy and precision results. The EPD/EMS quarterly reports provide the methods used by the laboratories each quarter.

Table E-1. Methods Used by the Contract Laboratories

Method	Used to Analyze	Source
EICHROMTC1MOD ^a	Technetium isotopes	EiChrom Industries, Inc.; NA ^b
EMLAM01MOD	Americium, curium isotopes	DOE, 1992
EMLPU02MOD	Neptunium, plutonium isotopes	DOE, 1992
EMLSR02MOD	Strontium isotopes	DOE, 1992
EMLTH01MOD	Thorium isotopes	DOE, 1992
EMLU02MOD	Uranium isotopes	DOE, 1992
ENICMOD	Carbon-14	NA
EPA120.1	Specific conductance	EPA EMSL, 1983
EPA150.1	pH	EPA EMSL, 1983
EPA160.1	Total dissolved solids	EPA EMSL, 1983
EPA160.2	Total dissolved solids, total suspended solids	EPA EMSL, 1983
EPA180.1	Turbidity	EPA EMSL, 1983
EPA200.7	Metals	EPA EMSL, 1983
EPA245.1	Mercury	EPA EMSL, 1983
EPA300.0	Chloride, nitrite, sulfate, fluoride	EPA EMSL, 1983
EPA310.1	Alkalinity (as CaCO ₃)	EPA EMSL, 1983
EPA335.2	Cyanide	EPA EMSL, 1983
EPA335.3	Cyanide	EPA EMSL, 1983
EPA340.2	Fluoride	EPA EMSL, 1983
EPA350.1	Ammonia nitrogen	EPA EMSL, 1983
EPA350.3	Ammonia	EPA EMSL, 1983
EPA353.1	Nitrogen, nitrate-nitrite	EPA EMSL, 1983
EPA353.2	Nitrogen, nitrate, nitrite, or combined	EPA EMSL, 1983
EPA365.2	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.3	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA365.4	Phosphorus, all forms (reported as total phosphates)	EPA EMSL, 1983
EPA405.1	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA405.1/SM	Five-day biochemical oxygen demand	EPA EMSL, 1983
EPA410.4	Chemical oxygen demand	EPA EMSL, 1983
EPA415.1	Dissolved organic carbon, total inorganic carbon, total organic carbon	EPA EMSL, 1983
EPA418.1	Total petroleum hydrocarbons	EPA EMSL, 1983

Method	Used to Analyze	Source
EPA420.2	Phenols	EPA EMSL, 1983
EPA450.1	Total organic halogens	NA
EPA900.0MOD	Gross alpha, nonvolatile beta	EPA EMSL, 1980
EPA901.1MOD	Gamma PHA, iodine isotopes	EPA EMSL, 1980
EPA903.0MOD	Total alpha-emitting radium, radium isotopes	EPA EMSL, 1980
EPA904.0MOD	Radium isotopes	EPA EMSL, 1980
EPA906.0MOD	Tritium	EPA EMSL, 1980
EPA6010	Metals	EPA, 1986
EPA6010A	Metals	EPA, 1992
EPA7470	Mercury	EPA, 1986
EPA8080	Organochlorine pesticides and PCBs	EPA, 1986
EPA8150	Chlorinated herbicides	EPA, 1986
EPA8240	GCMS volatiles	EPA, 1986
EPA8260	GCMS volatiles	EPA, 1986
EPA8270	GCMS semivolatiles	EPA, 1986
EPA8280	Dioxins and furans	EPA, 1986
EPA9020A	Total organic halogens	EPA, 1986
EPA9020B	Total organic halogens	EPA, 1994b
EPA9060	Total inorganic carbon	EPA, 1986
EPIA-001 ^c	Gross alpha, nonvolatile beta	EP, 1996
EPIA-002 ^c	Tritium	EP, 1996
EPIA-003 ^c	Carbon-14	EP, 1996
EPIA-004 ^c	Strontium-90	EP, 1996
EPIA-005 ^c	Technetium-99	EP, 1996
EPIA-006 ^c	Iodine-129	EP, 1996
EPIA-008 ^c	Radium-226	EP, 1996
EPIA-009 ^c	Radium-228	EP, 1996
EPIA-010 ^c	Radium, total alpha-emitting	EP, 1996
EPIA-011 ^c	Americium, curium, uranium isotopes	EP, 1996
EPIA-012 ^c	Neptunium, plutonium, thorium isotopes	EP, 1996
EPIA-013 ^c	Gamma PHA	EP, 1996
EPIA-022 ^c	Nickel isotopes	EP, 1996
MMES16009MOD	Technetium-99	NA
3Q1-6-1420	Total activity, tritium	NA

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

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

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

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

An example of method-specific QC information is that for EPA Method 8270 (EPA, 1986), which is used by both GE and Weston for analyses of semivolatile organics. The following table gives method-specific accuracy and precision as functions of concentration. Contract laboratories are expected to achieve or at least approach these limits.

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

Parameter	Accuracy, as recovery, x' ($\mu\text{g/L}$)	Single analyst precision, s_r' ($\mu\text{g/L}$)	Overall precision, S' ($\mu\text{g/L}$)
Acenaphthene	0.96C+0.19	0.15X-0.12	0.21X-0.67
Acenaphthylene	0.89C+0.74	0.24X-1.06	0.26X-0.54
Aldrin	0.78C+1.66	0.27X-1.28	0.43X+1.13
Anthracene	0.80C+0.68	0.21X-0.32	0.27X-0.64
Benzo[a]anthracene	0.88C-0.60	0.15X+0.93	0.26X-0.21
Benzo[b]fluoranthene	0.93C-1.80	0.22X+0.43	0.29X+0.96
Benzo[k]fluoranthene	0.87C-1.56	0.19X+1.03	0.35X+0.40
Benzo[g,h,i]perylene	0.98C-0.86	0.29X+2.40	0.51X-0.44
Benzo[a]pyrene	0.90C-0.13	0.22X+0.48	0.32X+1.35
β -BHC	0.87C-0.94	0.20X-0.58	0.30X+1.94
δ -BHC	0.29C-1.09	0.34X+0.86	0.93X+0.17
Bis(2-chloroethoxy) methane	1.12C-5.04	0.16X+1.34	0.26X+2.01
Bis(2-chloroethyl) ether	0.86C-1.54	0.35X-0.99	0.35X+0.10
Bis(2-chloroisopropyl) ether	1.03C-2.31	0.24X+0.28	0.25X+1.04
Bis(2-ethylhexyl) phthalate	0.84C-1.18	0.26X+0.73	0.36X+0.67
4-Bromophenyl phenyl ether	0.91C-1.34	0.13X+0.66	0.16X+0.66
Butylbenzyl phthalate	0.66C-1.68	0.18X+0.94	0.53X+0.92
4-Chloro-m-cresol	0.84C+0.35	0.23X+0.75	0.29X+1.31
Chloroethane	0.99C-1.53	0.14X-0.13	0.17X-0.28
2-Chloronaphthalene	0.89C+0.01	0.07X+0.52	0.13X+0.34
2-Chlorophenol	0.78C+0.29	0.18X+1.46	0.28X+0.97
4-Chlorophenyl phenyl ether	0.91C+0.53	0.20X-0.94	0.30X-0.46
Chrysene	0.93C-1.00	0.28X+0.13	0.33X-0.09
p,p'-DDD	0.56C-0.40	0.29X-0.32	0.66X-0.96
p,p'-DDE	0.70C-0.54	0.26X-1.17	0.39X-1.04
p,p'-DDT	0.79C-3.28	0.42X+0.19	0.65X-0.58
Dibenz[a,h]anthracene	0.88C+4.72	0.30X+8.51	0.59X+0.25
Di-n-butyl phthalate	0.59C+0.71	0.13X+1.16	0.39X+0.60
1,2-Dichlorobenzene	0.80C+0.28	0.20X+0.47	0.24X+0.39
1,3-Dichlorobenzene	0.86C-0.70	0.25X+0.68	0.41X+0.11

Parameter	Accuracy, as recovery, x' (µg/L)	Single analyst precision, s_r' (µg/L)	Overall precision, S' (µg/L)
1,4-Dichlorobenzene	0.73C–1.47	0.24X+0.23	0.29X+0.36
3,3'-Dichlorobenzidine	1.23C–12.65	0.28X+7.33	0.47X+3.45
2,4-Dichlorophenol	0.87C–0.13	0.15X+1.25	0.21X+1.28
Dieldrin	0.82C–0.16	0.20X–0.16	0.26X–0.07
Diethyl phthalate	0.43C+1.00	0.28X+1.44	0.52X+0.22
2,4-Dimethyl phenol	0.71C+4.41	0.16X+1.21	0.22X+1.31
Dimethyl phthalate	0.20C+1.03	0.54X+0.19	1.05X–0.92
2,4-Dinitrophenol	0.81C–18.04	0.38X+2.36	0.42X+26.29
2,4-Dinitrotoluene	0.92C–4.81	0.12X+1.06	0.21X+1.50
2,6-Dinitrotoluene	1.06C–3.60	0.14X+1.26	0.19X+0.35
Di-n-octyl phthalate	0.76C–0.79	0.21X+1.19	0.37X+1.19
Endosulfan sulfate	0.39C+0.41	0.12X+2.47	0.63X–1.03
Endrin aldehyde	0.76C–3.86	0.18X+3.91	0.73X–0.62
Fluoranthene	0.81C+1.10	0.22X–0.73	0.28X–0.60
Fluorene	0.90C–0.00	0.12X+0.26	0.13X+0.61
Heptachlor	0.87C–2.97	0.24X–0.56	0.50X–0.23
Heptachlor epoxide	0.92C–1.87	0.33X–0.46	0.28X+0.64
Hexachlorobenzene	0.74C+0.66	0.18X–0.10	0.43X–0.52
Hexachlorobutadiene	0.71C–1.01	0.19X+0.92	0.26X+0.49
Hexachloroethane	0.73C–0.83	0.17X+0.67	0.17X+0.80
Indeno[1,2,3-c,d]pyrene	0.78C–3.10	0.29X+1.46	0.50X–0.44
Isophorone	1.12C+1.41	0.27X+0.77	0.33X+0.26
2-Methyl-4,6-dinitrophenol	1.04C–28.04	0.10X+42.29	0.26X+23.10
Naphthalene	0.76C+1.58	0.21X–0.41	0.30X–0.68
Nitrobenzene	1.09C–3.05	0.19X+0.92	0.27X+0.21
2-Nitrophenol	0.07C–1.15	0.16X+1.94	0.27X+2.60
4-Nitrophenol	0.61C–1.22	0.38X+2.57	0.44X+3.24
N-Nitrosodi-n-propylamine	1.12C–6.22	0.27X+0.68	0.44X+0.47
PCB 1260	0.81C–10.86	0.35X+3.61	0.43X+1.82
Pentachlorophenol	0.93C+1.99	0.24X+3.03	0.30X+4.33
Phenanthrene	0.87C+0.06	0.12X+0.57	0.15X+0.25
Phenol	0.43C+1.26	0.26X+0.73	0.35X+0.58
Pyrene	0.84C–0.16	0.16X+0.06	0.15X+0.31
1,2,4-Trichlorobenzene	0.94C–0.79	0.15X+0.85	0.21X+0.39
2,4,6-Trichlorophenol	0.91C–0.18	0.16X+2.22	0.22X+1.81

x' = Expected recovery for one or more measurements of a sample containing a concentration of C, in µg/L.

s_r' = Expected single analyst standard deviation of measurements at an average concentration of X , in $\mu\text{g/L}$.

S' = Expected interlaboratory standard deviation of measurements at an average concentration of X , in $\mu\text{g/L}$.

C = True value for the concentration, in $\mu\text{g/L}$.

X = Average recovery found for measurements of samples containing a concentration of C , in $\mu\text{g/L}$.

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Appendix F

Time Series Plots

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Time Series Plot of Trichloroethylene for Well ABP 1

Time Series Plot of Trichloroethylene for Well ABP 2

Time Series Plot of Trichloroethylene for Well ABP 3

Time Series Plot of Trichloroethylene for Well ABP 4

Time Series Plot of Trichloroethylene for Well AC 2

Time Series Plot of Trichloroethylene for Well ACB 1

Time Series Plot of Trichloroethylene for Well ACB 2

Time Series Plot of Trichloroethylene for Well ACB 3

Time Series Plot of Trichloroethylene for Well ACB 4

Time Series Plot of Trichloroethylene for Well AMB 4

Time Series Plot of Trichloroethylene for Well AMB 5

Time Series Plot of Trichloroethylene for Well AMB 6

Time Series Plot of Trichloroethylene for Well AMB 9

Time Series Plot of Trichloroethylene for Well AMB 10

Time Series Plot of Trichloroethylene for Well AMB 11

Time Series Plot of Trichloroethylene for Well AMB 12

Time Series Plot of Trichloroethylene for Well AMB 13

Time Series Plot of Trichloroethylene for Well AMB 14

Time Series Plot of Trichloroethylene for Well AMB 16

Time Series Plot of Trichloroethylene for Well AMB 17

Time Series Plot of Trichloroethylene for Well AMB 18

Time Series Plot of Trichloroethylene for Well AMB 19

Time Series Plot of Trichloroethylene for Well AOB 1

Time Series Plot of Trichloroethylene for Well AOB 2

Time Series Plot of Trichloroethylene for Well ARP 1

Time Series Plot of Trichloroethylene for Well ARP 3

Time Series Plot of Trichloroethylene for Well ASB 1

Time Series Plot of Trichloroethylene for Well ASB 2

Time Series Plot of Trichloroethylene for Well ASB 3

Time Series Plot of Trichloroethylene for Well ASB 4

Time Series Plot of Trichloroethylene for Well ASB 5

Time Series Plot of Trichloroethylene for Well ASB 6

Time Series Plot of Trichloroethylene for Well ASB 8

Time Series Plot of Trichloroethylene for Well ASB 10

Time Series Plot of Trichloroethylene for Well MCB 4

Time Series Plot of Trichloroethylene for Well MCB 5

Time Series Plot of Trichloroethylene for Well MCB 7

Time Series Plot of Trichloroethylene for Well MSB 2

Time Series Plot of Trichloroethylene for Well MSB 3

Time Series Plot of Trichloroethylene for Well MSB 4

Time Series Plot of Trichloroethylene for Well MSB 5

Time Series Plot of Trichloroethylene for Well MSB 8

Time Series Plot of Trichloroethylene for Well MSB 9

Time Series Plot of Trichloroethylene for Well MSB 10

Time Series Plot of Trichloroethylene for Well MSB 11

Time Series Plot of Trichloroethylene for Well MSB 13

Time Series Plot of Trichloroethylene for Well MSB 14

Time Series Plot of Trichloroethylene for Well MSB 15

Time Series Plot of Trichloroethylene for Well MSB 17

Time Series Plot of Trichloroethylene for Well MSB 18

Time Series Plot of Trichloroethylene for Well MSB 19

Time Series Plot of Trichloroethylene for Well MSB 20

Time Series Plot of Trichloroethylene for Well MSB 21

Time Series Plot of Trichloroethylene for Well MSB 23

Time Series Plot of Trichloroethylene for Well MSB 24

Time Series Plot of Trichloroethylene for Well MSB 26

Time Series Plot of Trichloroethylene for Well MSB 27

Time Series Plot of Trichloroethylene for Well MSB 28

Time Series Plot of Trichloroethylene for Well MSB 29

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Time Series Plot of Trichloroethylene for Well MSB 31

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Time Series Plot of Trichloroethylene for Well MSB 34

Time Series Plot of Trichloroethylene for Well MSB 36

Time Series Plot of Trichloroethylene for Well MSB 37

Time Series Plot of Trichloroethylene for Well MSB 38

Time Series Plot of Trichloroethylene for Well MSB 39

Time Series Plot of Trichloroethylene for Well MSB 40

Time Series Plot of Trichloroethylene for Well MSB 42

Time Series Plot of Trichloroethylene for Well MSB 44

Time Series Plot of Trichloroethylene for Well MSB 45

Time Series Plot of Trichloroethylene for Well MSB 47

Time Series Plot of Trichloroethylene for Well MSB 48

Time Series Plot of Trichloroethylene for Well MSB 49

Time Series Plot of Trichloroethylene for Well MSB 50

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Time Series Plot of Trichloroethylene for Well MSB 75

Time Series Plot of Trichloroethylene for Well MSB 78

Time Series Plot of Trichloroethylene for Well MSB 79

Time Series Plot of Trichloroethylene for Well MSB 81

Time Series Plot of Trichloroethylene for Well MSB 82

Time Series Plot of Trichloroethylene for Well MSB 83

Time Series Plot of Trichloroethylene for Well MSB 84

Time Series Plot of Trichloroethylene for Well MSB 85

Time Series Plot of Trichloroethylene for Well MSB 86

Time Series Plot of Trichloroethylene for Well MSB 88

Time Series Plot of Trichloroethylene for Well MSB 89

Time Series Plot of Trichloroethylene for Well RWM 1

Time Series Plot of Trichloroethylene for Well RWM 2

Time Series Plot of Trichloroethylene for Well RWM 4

Time Series Plot of Trichloroethylene for Well RWM 5

Time Series Plot of Trichloroethylene for Well RWM 8

Time Series Plot of Trichloroethylene for Well RWM 9

Time Series Plot of Trichloroethylene for Well RWM 10

Time Series Plot of Trichloroethylene for Well RWM 11

Time Series Plot of Trichloroethylene for Well RWM 12

Time Series Plot of Trichloroethylene for Well RWM 13

Time Series Plot of Trichloroethylene for Well RWM 15

Time Series Plot of Trichloroethylene for Well SRW 1

Time Series Plot of Trichloroethylene for Well SRW 2

Time Series Plot of Trichloroethylene for Well SRW 3

Time Series Plot of Trichloroethylene for Well SRW 4

Time Series Plot of Trichloroethylene for Well SRW 5

Time Series Plot of Trichloroethylene for Well SRW 6

Time Series Plot of Trichloroethylene for Well SRW 7

Time Series Plot of Trichloroethylene for Well SRW 8

Time Series Plot of Trichloroethylene for Well SRW 9

Time Series Plot of Trichloroethylene for Well SRW 10

Time Series Plot of Trichloroethylene for Well SRW 11

Time Series Plot of Trichloroethylene for Well SRW 12

Time Series Plot of Trichloroethylene for Well SRW 14

Time Series Plot of Trichloroethylene for Well SRW 16

Time Series Plot of Trichloroethylene for Well SRW 17

Time Series Plot of Trichloroethylene for Well SRW 18

Time Series Plot of Trichloroethylene for Well SRW 19

Time Series Plot of Tetrachloroethylene for Well ABP 1

Time Series Plot of Tetrachloroethylene for Well ABP 2

Time Series Plot of Tetrachloroethylene for Well ABP 3

Time Series Plot of Tetrachloroethylene for Well ABP 8

Time Series Plot of Tetrachloroethylene for Well ACB 2

Time Series Plot of Tetrachloroethylene for Well ACB 3

Time Series Plot of Tetrachloroethylene for Well AMB 6

Time Series Plot of Tetrachloroethylene for Well AMB 7

Time Series Plot of Tetrachloroethylene for Well AMB 8

Time Series Plot of Tetrachloroethylene for Well AMB 9

Time Series Plot of Tetrachloroethylene for Well AMB 10

Time Series Plot of Tetrachloroethylene for Well AMB 11

Time Series Plot of Tetrachloroethylene for Well AMB 14

Time Series Plot of Tetrachloroethylene for Well AMB 15

Time Series Plot of Tetrachloroethylene for Well AMB 16

Time Series Plot of Tetrachloroethylene for Well AMB 17

Time Series Plot of Tetrachloroethylene for Well AMB 18

Time Series Plot of Tetrachloroethylene for Well AMB 19

Time Series Plot of Tetrachloroethylene for Well AOB 1

Time Series Plot of Tetrachloroethylene for Well AOB 2

Time Series Plot of Tetrachloroethylene for Well AOB 3

Time Series Plot of Tetrachloroethylene for Well ARP 4

Time Series Plot of Tetrachloroethylene for Well ASB 1

Time Series Plot of Tetrachloroethylene for Well ASB 2

Time Series Plot of Tetrachloroethylene for Well ASB 3

Time Series Plot of Tetrachloroethylene for Well ASB 5

Time Series Plot of Tetrachloroethylene for Well ASB 6

Time Series Plot of Tetrachloroethylene for Well ASB 8

Time Series Plot of Tetrachloroethylene for Well ASB 9

Time Series Plot of Tetrachloroethylene for Well MCB 5

Time Series Plot of Tetrachloroethylene for Well MSB 1

Time Series Plot of Tetrachloroethylene for Well MSB 3

Time Series Plot of Tetrachloroethylene for Well MSB 4

Time Series Plot of Tetrachloroethylene for Well MSB 5

Time Series Plot of Tetrachloroethylene for Well MSB 6

Time Series Plot of Tetrachloroethylene for Well MSB 10

Time Series Plot of Tetrachloroethylene for Well MSB 11

Time Series Plot of Tetrachloroethylene for Well MSB 12

Time Series Plot of Tetrachloroethylene for Well MSB 14

Time Series Plot of Tetrachloroethylene for Well MSB 15

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Time Series Plot of Tetrachloroethylene for Well MSB 66

Time Series Plot of Tetrachloroethylene for Well MSB 68

Time Series Plot of Tetrachloroethylene for Well MSB 70

Time Series Plot of Tetrachloroethylene for Well MSB 72

Time Series Plot of Tetrachloroethylene for Well MSB 76

Time Series Plot of Tetrachloroethylene for Well MSB 77

Time Series Plot of Tetrachloroethylene for Well MSB 81

Time Series Plot of Tetrachloroethylene for Well MSB 82

Time Series Plot of Tetrachloroethylene for Well MSB 83

Time Series Plot of Tetrachloroethylene for Well MSB 84

Time Series Plot of Tetrachloroethylene for Well MSB 85

Time Series Plot of Tetrachloroethylene for Well MSB 86

Time Series Plot of Tetrachloroethylene for Well MSB 88

Time Series Plot of Tetrachloroethylene for Well MSB 89

Time Series Plot of Tetrachloroethylene for Well RWM 1

Time Series Plot of Tetrachloroethylene for Well RWM 2

Time Series Plot of Tetrachloroethylene for Well RWM 4

Time Series Plot of Tetrachloroethylene for Well RWM 6

Time Series Plot of Tetrachloroethylene for Well RWM 7

Time Series Plot of Tetrachloroethylene for Well RWM 8

Time Series Plot of Tetrachloroethylene for Well RWM 9

Time Series Plot of Tetrachloroethylene for Well RWM 12

Time Series Plot of Tetrachloroethylene for Well RWM 14

Time Series Plot of Tetrachloroethylene for Well RWM 15

Time Series Plot of Tetrachloroethylene for Well SRW 2

Time Series Plot of Tetrachloroethylene for Well SRW 3

Time Series Plot of Tetrachloroethylene for Well SRW 6

Time Series Plot of Tetrachloroethylene for Well SRW 7

Time Series Plot of Tetrachloroethylene for Well SRW 8

Time Series Plot of Tetrachloroethylene for Well SRW 9

Time Series Plot of Tetrachloroethylene for Well SRW 11

Time Series Plot of Tetrachloroethylene for Well SRW 12

Time Series Plot of Tetrachloroethylene for Well SRW 13

Time Series Plot of Tetrachloroethylene for Well SRW 14

Time Series Plot of Tetrachloroethylene for Well SRW 15

Time Series Plot of Tetrachloroethylene for Well SRW 16

Time Series Plot of Tetrachloroethylene for Well SRW 17

Time Series Plot of Tetrachloroethylene for Well SRW 18

Appendix G

Hydrographs

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Hydrograph for Wells ABP2

Hydrograph for Wells ABP4

Hydrograph for Wells ABP8

Hydrograph for Wells ABW1

Hydrograph for Wells AMB 5

Hydrograph for Wells AMB 6

Hydrograph for Wells AMB 7

Hydrograph for Wells AMB15

Hydrograph for Wells AOB2

Hydrograph for Wells ARP2

Hydrograph for Wells ARP3

Hydrograph for Wells ASB 1

Hydrograph for Wells ASB 2

Hydrograph for Wells ASB 4

Hydrograph for Wells ASB 5

Hydrograph for Wells MCB 5

Hydrograph for Wells MCB 7

Hydrograph for Wells MCB 9

Hydrograph for Wells MSB 5

Hydrograph for Wells MSB 6

Hydrograph for Wells MSB 7

Hydrograph for Wells MSB 8

Hydrograph for Wells MSB 9

Hydrograph for Wells MSB11

Hydrograph for Wells MSB16

Hydrograph for Wells MSB17

Hydrograph for Wells MSB19

Hydrograph for Wells MSB21

Hydrograph for Wells MSB23

Hydrograph for Wells MSB24

Hydrograph for Wells MSB25

Hydrograph for Wells MSB27

Hydrograph for Wells MSB28

Hydrograph for Wells MSB29

Hydrograph for Wells MSB31

Hydrograph for Wells MSB32

Hydrograph for Wells MSB34

Hydrograph for Wells MSB35

Hydrograph for Wells MSB36

Hydrograph for Wells MSB40

Hydrograph for Wells MSB41

Hydrograph for Wells MSB43

Hydrograph for Wells MSB46

Hydrograph for Wells MSB48

Hydrograph for Wells MSB49

Hydrograph for Wells MSB52

Hydrograph for Wells MSB53

Hydrograph for Wells MSB59

Hydrograph for Wells MSB61

Hydrograph for Wells MSB70

Hydrograph for Wells MSB71

Hydrograph for Wells MSB72

Hydrograph for Wells MSB73

Hydrograph for Wells MSB75

Hydrograph for Wells MSB76

Hydrograph for Wells MSB78

Hydrograph for Wells MSB79

Hydrograph for Wells MSB81

Hydrograph for Wells MSB84

Hydrograph for Wells MSB86

Hydrograph for Wells MSB88

Hydrograph for Wells RWM15

Hydrograph for Wells SRW 1

Hydrograph for Wells SRW 2

Hydrograph for Wells SRW 8

Hydrograph for Wells SRW13

Hydrograph for Wells SRW15

Hydrograph for Wells SRW16

**1Q/2Q00 M-Area and Metallurgical Laboratory Hazardous Waste
Management Facilities Groundwater Monitoring and
Corrective-Action Report - First and Second Quarters 2000 -
Volumes I, II, and II**

by

J. Chase

Westinghouse Savannah River Company

Savannah River Site

Aiken, South Carolina 29808

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

FIRST AND SECOND QUARTERS 2000

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Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

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