**THE ENVIRONMENTAL PROTECTION DEPARTMENT
ENVIRONMENTAL MONITORING SECTION**

**THE SAVANNAH RIVER SITE'S
GROUNDWATER MONITORING PROGRAM**

1991 WELL INSTALLATION REPORT (U)

Environmental Protection Department
Westinghouse Savannah River Company
Aiken, SC

and

Exploration Resources, Inc.
Athens, GA

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Savannah River Site
Aiken, SC 29808

MASTER

SAVANNAH RIVER SITE

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1. INTRODUCTION

This report is a summary of the well and environmental soil boring information compiled for the groundwater monitoring program of the Environmental Protection Department/Environmental Monitoring Section (EPD/EMS) at the Savannah River Site (SRS) during 1991. It includes discussion of environmental soil borings, surveying, well installations, abandonments, maintenance, and stabilization.

EPD/EMS is responsible for monitoring for constituents in the groundwater at approximately 135 waste sites in 16 areas at SRS (see Figures 1 and 2). The majority of this monitoring is required by U.S. Department of Energy (DOE) orders and by federal and state regulations administered by the U.S. Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (SCDHEC). The groundwater monitoring program includes the following activities:

- installation, maintenance, and abandonment of monitoring wells
- environmental soil borings
- development of sampling and analytical schedules
- collection and analyses of groundwater samples
- review of analytical and other data
- maintenance of the databases containing groundwater monitoring data
- quality assurance (QA) evaluations of laboratory performance
- reports of results to waste site facility custodians and to the Environmental Protection Section (EPS) of EPD

EPD/EMS is responsible for monitoring wells but not for the facilities that are monitored. It is the responsibility of the custodian of each waste site to ensure that EPD/EMS is informed of sampling requirements and special requests for the sampling schedule, to assist in reviewing the data, and to make any decisions regarding groundwater monitoring at the waste site.

ORGANIZATION OF THIS REPORT

This report is divided into sections that focus on specific aspects of the SRS groundwater monitoring program. The wells described in this report are organized alphabetically based on the

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Well Data File code. An "R" as the final character in a well ID designates a replacement well with the same name as its original.

The first three sections concern the physical state of monitoring wells. The **Well Abandonment** section lists wells that were abandoned during the quarter, their SRS grid coordinates, the date each well was abandoned, and a short description of why each well was abandoned. The **Well Maintenance** section lists wells that were repaired during the year, the repairs made, and the date of the repairs. The **Well Construction** section lists newly installed monitoring wells and piezometers, describes the construction of each well, and discusses drilling and lithologic sampling techniques.

New monitoring wells are pumped to determine how many well volumes must be evacuated to stabilize the chemistry of the water, and the results of these tests are listed in the **Well Stabilization** section. The **Environmental Soil Borings** section contains drilling and sampling methods, completion dates, and depths of environmental soil borings drilled during the year. The elevations and SRS grid coordinates for new wells and changes for old wells are given in the **Surveying** section.

The **Site Index by Well Series** section assists the reader in identifying the site associated with each well series. A glossary of abbreviations, acronyms, and well construction terms used in this report can be found in the **Glossary** section. References cited are listed in the **References** section. The **Index of Well Information**, a cumulative index of all well series in the EPD/EMS quarterly reports for 1986-1990, also is included in this report.

Additions to the Groundwater Monitoring Program During 1991

The following new well series, including 70 new wells, were installed for the Groundwater Monitoring Program in 1991:

- Seventeen wells of the BGX series were constructed at the future E-Area Vaults.
- Thirty piezometers of the BTP series were installed at Site B of the Proposed Sanitary Landfill.
- Four wells of the HMD series were constructed at the site of the future Hazardous Waste/Mixed Waste Disposal Facility.
- Nine piezometers of the LWN series were installed at Site N of the Proposed New Sanitary Landfill.
- Ten wells of the NPM series were constructed at the Potential New Production Reactor Site.

The following 106 wells were constructed during 1991:

- Nine wells of the AMB series were constructed in the Metallurgical Laboratory Seepage Basin.
- Two wells of the ASB series were installed at the Savannah River Laboratory (SRL) Seepage Basins.

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- In the BGO series, 9 replacement wells were constructed at the Burial Grounds and Mixed Waste Management Facility (MWMF), 5 new wells were installed at the Burial Grounds, and 21 new wells were constructed at the MWMF.
- One replacement well of the FCA series was installed at the F-Area Canyon Building.
- Two replacement wells, one pump test well, and four piezometers were installed at the F-Area Seepage Basins.
- One replacement well, one pump test well, four piezometers, and ten assessment wells of the HSB series were constructed at the H-Area Seepage Basins.
- Two wells of the HXB series were installed at the Ford Building Seepage Basin.
- In the IDB series, one piezometer was constructed at Site B of the Interim Waste Technology Site.
- Four wells of the KRB series were constructed at the K-Area Retention Basin.
- Twenty-six wells of the LFW series were constructed at the Sanitary Landfill.
- Three plume definition wells of the MSB series were installed at the M-Area Hazardous Waste Management Facility (HWMF).

The following 14 wells were abandoned in 1991:

- One well (AMB 4) in the Metallurgical Laboratory Seepage Basin was abandoned because it was too close to the edge of the basin and would have been covered when the basin was closed.
- Wells in the F-Area Seepage Basins (FSB 94D, 95C, 95D, 96A, 98A, and 105D) and H-Area Seepage Basins (HSB124A) were replaced because they were contaminated with grout or consistently purged dry, producing no water for analytical results.
- Five wells in the K-Area Retention Basin (KRB 1, 8, 13, 14, and 15) and one K-Area Water Level Observation well (KWL 8) were abandoned because construction activities during the insertion of a liner in the basin recontoured the basin walls and ruined the monitoring well system.

FOR FURTHER INFORMATION

The following is a brief description of documents pertaining to the groundwater monitoring program.

Sampling Schedule

The *The Savannah River Site's Groundwater Monitoring Program 1991 Sampling Schedule* (ESH-EMS-900200) provides a historical record of the analyses requested for the wells that are monitored by EPD/EMS in 1991. The flagging criteria and a discussion of how these criteria were derived are included in this document. It also includes a brief description of the

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special studies conducted by the groundwater monitoring program. This document was revised and printed quarterly for use by site custodians. The final version, which reflected all the changes made throughout the year, was printed in early 1992.

Quarterly Reports

EPD/EMS has published a description of its groundwater monitoring program for each quarter since the beginning of 1986. A list of these quarterly reports follows.

<u>Report</u>	<u>Document Number</u>	<u>Report</u>	<u>Document Number</u>
Fourth Quarter 1991	ESH-EMS-910090	Fourth Quarter 1988	HPR-89-193
Third Quarter 1991	ESH-EMS-910089	Third Quarter 1988	HPR-88-489
Second Quarter 1991	ESH-EMS-910088	Second Quarter 1988	HPR-88-300
First Quarter 1991	ESH-EMS-910087	First Quarter 1988	HPR-88-238
Fourth Quarter 1990	ESH-EMS-900134	Fourth Quarter 1987	HPR-88-098
Third Quarter 1990	ESH-EMS-900133	Third Quarter 1987	HPR-87-339
Second Quarter 1990	ESH-EMS-900132	Second Quarter 1987	HPR-87-286
First Quarter 1990	ESH-EMS-90-0131	First Quarter 1987	HPR-87-158
Fourth Quarter 1989	ESH-EMS-890046	Fourth Quarter 1986	HPR-87-072
Third Quarter 1989	ESH-EMS-890045	Third Quarter 1986	HPR-87-002
Second Quarter 1989	ESH-EMS-890044	Second Quarter 1986	HPR-86-226
First Quarter 1989	ESH-EMS-890043	First Quarter 1986 (revised)	HPR-86-158

Annual Reports

The U.S. Department of Energy's *Savannah River Site Environmental Report*, which includes groundwater data for the year, site descriptions, and site maps, is a public document issued annually. A list of recent reports follows.

<u>Report</u>	<u>Document Number</u>
1991	WSRC-TR-92-186
1990	WSRC-IM-91-28 (Vols. 1 and 2)
1989	WSRC-IM-90-60 (Vols. 1 and 2)
1988	WSRC-RP-89-59-1 (Vols. 1 and 2)
1987	DPSPU-88-30-1 (Vols. 1 and 2)
1986	DPSPU-87-30-1 (Vols. 1 and 2)
1985	DPSPU-86-30-1 (Vols. 1 and 2)

Inventory and Maps of Wells

The *Environmental Protection Department's Well Inventory* provides a historical record of wells monitored by EPD/EMS, contains a list of wells currently in the EPD/EMS groundwater monitoring program, and provides pertinent information about all wells listed in EPD/EMS documents. The latest version is ESH-EMS-910092, which includes site maps for abandoned and active wells.

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Other Data Reports

The U.S. Department of Energy's *Geoscience Implementation Plan* and *Geohydrology Program Report* describe projects relating to the geohydrology program at SRS and their current status and administration.

Christensen and Gordon's *Technical Summary of Groundwater Quality Protection Program at Savannah River Plant, Volume I—Site Geohydrology, and Solid and Hazardous Wastes*, DPST-83-829, December 1983, describes SRS waste disposal sites and analytical monitoring data.

Stone and Christensen's *Technical Summary of Groundwater Quality Protection Program at Savannah River Plant, Volume II—Radioactive Waste*, DPST-83-829, December 1983, presents representative monitoring data for radioactivity in groundwater at SRS.

Full bibliographical listings of these and other documents can be found in the **References** section of this report.

Figure 2. Separations and Waste Management Areas Monitored for Groundwater Quality

Notes

2. WELL ABANDONMENT

The primary sources of data for this section are the SRS Well Abandonment Report and the Daily Activities Report. Wells abandoned during 1991 include one K-Area Water Level Observation well and wells in the F-Area Seepage Basins, H-Area Seepage Basins, K-Area Retention Basin, and Metallurgical Laboratory Seepage Basin.

F- AND H-AREA SEEPAGE BASINS

The oversight group, Guale, LTD. (Guale), of Augusta, GA, maintained these records during 1991. Environmental Monitoring and Testing Corporation (EMTC) of New Ellenton, SC, performed the abandonment activities. Wells were replaced in the F- and H-Area Seepage Basins because they were contaminated with grout or they consistently purged dry, producing no water for analytical results. Table 1 lists the wells abandoned in these areas.

Table 1. F- and H-Area Seepage Basins Well Abandonments

	<u>SRS Coordinates</u>		<u>Abandonment Completed</u>
<u>Well</u>	<u>North</u>	<u>East</u>	
F-Area Seepage Basins			
FSB 94D	74,863.4	50,188.6	01/23/91
FSB 95C	74,971.7	50,016.7	01/23/91
FSB 95D	74,977.5	50,008.9	01/23/91
FSB 96A	74,882.2	49,778.7	01/23/91
FSB 98A	75,389.8	50,121.6	10/21/91
FSB105D	75,244.3	49,833.3	01/23/91
H-Area Seepage Basins			
HSB124A	72,199.6	58,514.6	10/21/91

K-AREA RETENTION BASIN AND WATER LEVEL OBSERVATION WELLS

Guale, the oversight group, maintained these records during 1991. Graves Environmental and Geotechnical Services (GEGS), Jackson, SC, performed the abandonment activities. There has been much confusion about the relationship between the KRB wells and the KWL wells. It has been determined that they are separate well series with different coordinates. The KRB wells may have replaced the KWL wells, but none of the KWL wells were officially abandoned until KWL 8 was abandoned in 1991. The KRB wells listed in Table 2 were abandoned because construction activities during the insertion of a liner in the basin recontoured the basin walls and ruined the monitoring well system.

WELL ABANDONMENT

Table 2. K-Area Retention Basin and Water Level Observation Well Abandonments

<u>Well</u>	<u>SRS Coordinates</u>		<u>Abandonment Completed</u>
	<u>North</u>	<u>East</u>	
K-Area Retention Basin			
KRB 1	55,025.3	39,952.1	05/02/91
KRB 8	54,893.6	40,302.1	05/06/91
KRB 13	55,344.2	39,986.6	05/01/91
KRB 14	55,566.7	40,158.5	05/01/91
KRB 15	55,476.3	40,669.3	05/01/91
K-Area Water Level Observation Well			
KWL 8	54,890	40,302	05/07/91

METALLURGICAL LABORATORY SEEPAGE BASIN

AMB 4 was abandoned on 9/30/91 because it was too close to the edge of the basin and would have been covered after the basin was closed. Guale was the oversight group. GEGS performed the abandonment activities for AMB 4.

3. WELL MAINTENANCE

The sources of data for this section are well maintenance records kept by Ge-Hy Sampling (Ge-Hy) of New Ellenton, SC, and EPD/EMS during 1991. GEGS performed all maintenance activities. A diagram of a groundwater monitoring well head is shown in Figure 3.

Figure 3. Groundwater Monitoring Well Head

Table 3 lists 42 well series that experienced maintenance problems corrected during 1991. Well maintenance activities do not include correcting problems with well identification and well access.

Table 3. Well Maintenance Problems Corrected During 1991

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
AC Series, A-Area Cluster Perimeter Wells and M-Area Plume Definition Wells		
AC 1A	Flowmeter gaskets needed replacing	04/10/91
ACB Series, A-Area Coal Pile Runoff Containment Basin		
ACB 4A	Gate valve cracked (leaked)	10/04/91
AOB Series, Motor Shop Oil Basin		
AOB 2	Sampling tee cracked at seam	04/10/91

WELL MAINTENANCE

Table 3. Well Maintenance Problems Corrected During 1991 (cont.)

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
ARP Series, A-Area Burning/Rubble Pits		
ARP 3	Faulty sample valve	10/04/91
ARP 4	Leaked	10/04/91
ASB Series, Savannah River Laboratory Seepage Basins		
ASB 1A	Sample valve could not shut off, needed replacing	10/04/91
ASB 6A	Flowmeter did not work	06/20/91
ASB 6C	Water sprayed from flowmeter connector onto sample nipple	06/20/91
ASB 7	Flowmeter did not work	06/20/91
ASB 8A	Discharge hose leaked, needed clamp	10/04/91
ASB 8TA	Discharge hose leaked, needed clamp	10/04/91
ASB 9B	Flowmeter did not work	04/10/91
BG Series, Burial Grounds		
BG 91	No discharge hose	10/04/91
BG 92	No discharge hose	10/04/91
BG 93	No discharge hose	10/04/91
BG 94	No discharge hose	10/04/91
BG 95	No discharge hose	10/04/91
BG 96	No discharge hose	10/04/91
BG 101	Flowmeter did not work	06/20/91
	No discharge hose	10/04/91
BG 103	No discharge hose	10/04/91
BG 104	No discharge hose; pump would not start	10/04/91
BG 107	No discharge hose	10/04/91
BG 108	No discharge hose; pump would not start	10/04/91
	Motor bad, needed replacing	10/21/91
BG 109	Pump would not start, needed replacing	06/20/91
	No discharge hose; pump would not start	10/04/91
BG 110	No hose clamp, hose needed to be attached	10/04/91
BG 122	No discharge hose	10/04/91
BG 125	No well cap (4-in. well open to the environment)	10/04/91
BGO Series, Burial Grounds Perimeter Wells		
BGO 2D	Flowmeter did not work	06/20/91
BGO 16D	Pump would not start	12/23/91
BGO 24D	Pump would not start	12/23/91
BGO 29A	Flowmeter on backwards	06/20/91
BGO 35D	Needed hose clamp	10/04/91
CCB Series, C-Area Coal Pile Runoff Containment Basin		
CCB 2	Discharge hose split at meter	10/04/91
CCB 3	Flowmeter did not work below 3 gpm, needed replacing	06/20/91

WELL MAINTENANCE

Table 3. Well Maintenance Problems Corrected During 1991 (cont.)

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
CDB Series, C-Area Disassembly Basin		
CDB 1	Leaked at gate valve and sampling tee	04/10/91
CMP Series, Chemicals, Metals, and Pesticides (CMP) Pits		
CMP 16B	Sampling tee and sample port leaked badly	06/20/91
CMP 16C	Pump would not start, needed replacing	06/20/91
CRP Series, C-Area Burning/Rubble Pit		
CRP 2	Leaked at sampling tee and flowmeter connector	06/20/91
	Sample nipple leaked	10/04/91
CSB Series, C-Area Reactor Seepage Basins		
CSB 4A	Leaked at well seal coupling when throttled	06/20/91
DCB Series, D-Area Coal Pile Runoff Containment Basin and Ash Basins		
DCB 7	Sample nipple broken off at sample valve	06/20/91
FBP Series, F-Area Burning/Rubble Pits		
FBP 1A	Sample nipple leaked	10/03/91
FBP 2A	Leaked	10/03/91
FCA Series, F-Area Canyon Building		
FCA 9C	Trash ~2 ft down inside well prevented access	11/13/91
FCB Series, F-Area Coal Pile Runoff Containment Basin		
FCB 2	Sampling tee cracked (sprayed)	10/03/91
FSB Series, F-Area Seepage Basins		
FSB 87B	Leaked at sample nipple	10/03/91
FSB 87C	Sprayed and leaked at flowmeter/hose connection	06/20/91
FSB 88C	Leaked	10/03/91
FSB 93D	Pump did not start	04/08/91
FSB105DR	Gate valve leaked	10/03/91
HCB Series, H-Area Coal Pile Runoff Containment Basin		
HCB 4	Pump did not start	04/09/91

WELL MAINTENANCE

Table 3. Well Maintenance Problems Corrected During 1991 (cont.)

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
HR8 Series, E-Area Retention Basin		
HR8 11	Flowmeter stopped working after pumping 93 gal	06/20/91
HSB Series, H-Area Seepage Basins		
HSB 1TB	No flowmeter	06/20/91
HSB 69	Discharge hose leaked	10/04/91
HSB 70	Sampling tee leaked/sprayed	06/20/91
	Sampling tee leaked/sprayed	10/04/91
HSB102D	Leaked/sprayed	06/20/91
HSB103C	Leaked at sampling tee	10/02/91
HSB104D	Sampling tee and flowmeter leaked	10/02/91
HSB105D	Sample valve leaked	10/02/91
HSB111E	Motor ran but no water came out	04/09/91
HSB116C	Sample valve leaked	10/02/91
HSB121A	Above-ground plumbing broken	10/02/91
HSB125D	Hose leaked	10/04/91
HSB136D	Sampling tee leaked	10/02/91
HSB139D	Sample valve leaked	10/02/91
HSB146A	Needed discharge hose	10/04/91
HWS Series, Hazardous Waste Storage Facility		
HWS 1A	Nipple/gate valve connection cracked and sprayed	04/18/91
IDQ Series, Interim Waste Technology Site Characterization Wells, Site Q		
IDQ 8	Flowmeter on backwards	06/20/91
KAC Series, K-Area Acid/Caustic Basin		
KAC 3	Pump would not start	04/08/91
KAC 4	Sample port valve leaked badly	06/20/91
KAC 6	No sample nipple cut-off valve	06/20/91
KCB Series, K-Area Coal Pile Runoff Containment Basin		
KCB 2	Pump was sand-locked	03/23/91
KDB Series, K-Area Disassembly Basin		
KDB 2	Leaked and sprayed from sampling tee	06/20/91
KDB 3	Leaked and sprayed	06/20/91
KRP Series, K-Area Burning/Rubble Pit		
KRP 4	Leaked at sampling tee	06/20/91

WELL MAINTENANCE

Table 3. Well Maintenance Problems Corrected During 1991 (cont.)

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
LAC Series, L-Area Acid/Caustic Basin		
LAC 2	Flowmeter did not work	06/20/91
LAW Series, L-Area Research Wells		
LAW 3B	Pump discharged water from water level access pipe	12/14/91
LCO Series, L-Area Oil and Chemical Basin		
LCO 1	Discharge hose leaked badly	06/20/91
LDB Series, L-Area Disassembly Basin		
LDB 1	Leaked and sprayed badly	06/20/91
LDB 2	Leaked and sprayed badly	06/20/91
LFW Series, Sanitary Landfill		
LFW 10A	Flowmeter on backwards	06/20/91
LFW 19	Above-ground plumbing broken	10/24/91
LFW 20	Flowmeter on backwards	06/20/91
LFW 29	Flowmeter did not work	06/20/91
LFW 31	Flowmeter had blown out pressure relief plug and leaked	04/10/91
LRP Series, L-Area Burning/Rubble Pit		
LRP 2	Gate valve cracked and sprayed when throttled	06/20/91
LSB Series, L-Area Reactor Seepage Basin		
LSB 1	Sample port valve broken, needed replacing	06/20/91
MSB Series, M-Area HWMF and Plume Definition Wells		
MSB 5A	Flowmeter worked sporadically, needed replacing	04/10/91
	Flowmeter stopped working when pump rate dropped, needed replacing	06/20/91
MSB 9B	Gate valve stripped, needed replacing	04/10/91
MSB 12D	Sample valve, nipple, and cap were missing	06/20/91
MSB 17B	Sampling tee cracked	04/10/91
MSB 20C	Gate valve broken	06/20/91
	Leaked and sprayed at gate valve and sampling tee connection	10/04/91
MSB 27B	Flowmeter 10-gal column did not advance	04/10/91
	Flowmeter 10-gal column did not work, needed replacing	06/20/91
MSB 29C	Leaked at riser pipe elbow	04/25/91
	Very bad leak from broken 1-in. elbow at top of well seal	06/20/91
MSB 37A	Flowmeter broken, needed replacing	06/20/91

WELL MAINTENANCE

Table 3. Well Maintenance Problems Corrected During 1991 (cont.)

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
MSB Series, HWMF and Plume Definition Wells (cont.)		
MSB 41B	Flowmeter 10-gal column did not advance	04/10/91
MSB 41C	Flowmeter 10-gal column did not work, needed replacing	06/20/91
MSB 43A	Well casing lid was broken off, could not be locked	06/20/91
MSB 43D	Flowmeter 10-gal column did not advance	04/10/91
	One-in. gate valve leaked and sprayed into sample	06/20/91
MSB 43TA	Flowmeter 10-gal column did not advance	10/04/91
MSB 44A	Leaked (used tape to keep from getting wet)	06/20/91
MSB 46B	Gate valve cracked and sprayed, leaked at sampling tee	06/20/91
MSB 47D	Flowmeter 10-gal column did not advance	10/04/91
MSB 48B	Flowmeter needed replacing	04/10/91
MSB 48D	Pump would not start	06/20/91
MSB 52B	Flowmeter did not work	06/20/91
MSB 53C	Flowmeter 10-gal column did not advance	04/10/91
MSB 56D	All stainless steel fittings leaked due to not being taped	06/20/91
MSB 63B	Hose clamp needed on discharge hose	06/20/91
MSB 63C	Gate valve cracked and sprayed	06/20/91
MSB 66D	Pump did not work	06/20/91
	Sand-locked; well cannot be repaired at this time	11/04/91
MSB 70C	Flowmeter did not work	06/20/91
P Series, SRS Baseline Hydrogeologic Investigation Observation Well Cluster North of H Area		
P 14C	Pump was sand-locked; packed sand inside riser pipe	12/09/91
PCP Series, P-Area Coal Pile Runoff Containment Basin		
PCB 4A	Hose leaked at flowmeter connection	10/04/91
PDB Series, P-Area Disassembly Basin		
PDB 2	Leaked at sampling tee	06/20/91
PDB 3	Flowmeter stopped working when pump rate dropped, needed to be replaced	06/20/91
PSB Series, P-Area Reactor Seepage Basins		
PSB 1A	Flowmeter did not work	06/20/91
PSB 2A	Plumbing leaked, needed retaping	06/20/91
PSB 3A	Leaked at sampling tee	06/20/91
PSB 4A	Leaked at sampling tee	06/20/91
PSB 5A	Leaked at sampling tee and gate valve	06/20/91
	Leaked at sampling tee	10/04/91
PSB 7A	Leaked at sampling tee and flowmeter	06/20/91

WELL MAINTENANCE

Table 3. Well Maintenance Problems Corrected During 1991 (cont.)

<u>Well Name</u>	<u>Maintenance Problem</u>	<u>Date Corrected</u>
SRW Series, Silverton Road Waste Site		
SRW 1	Pump did not work	06/20/91
SRW 2	Leaked at sampling tee and flowmeter connector	06/20/91
	Leaked (sprayed) from cracked sampling tee	10/03/91
SRW 2A	Leaked at sampling tee and elbow	10/03/91
SRW 2B	Leaked at sampling tee	10/03/91
SRW 6	Leaked (sprayed ~ 12 ft) from elbow (cracked)	10/03/91
SRW 10	Sprayed from discharge hose	10/04/91
SRW 13A	Sprayed from cracked sampling tee	04/10/91
SRW 13A	Leaked and sprayed at discharge hose/flowmeter connection	06/20/91
SRW 13C	Sprayed at discharge hose connection to flowmeter	06/20/91
SRW 13C	Leaked (sprayed) from flowmeter connector (discharge side)	10/03/91
SRW 14B	Coupling at well seal cracked and leaked	10/03/91
SRW 14C	Leaked between elbow and sampling tee	10/03/91
SRW 15A	Leaked at sampling tee	10/03/91
SRW 15B	Leaked at sampling tee	04/10/91
SRW 16C	Sample nipple broken off	10/03/91
TBG Series, TNX Burying Ground		
TBG 1D	Sprayed and leaked very badly at sampling tee and inside protective casing	06/20/91
TNX Series, TNX-Area Assessment Wells		
TNX 12D	Sample nipple leaked	10/04/91
YSC Series, Y-Area Waste Solidification and Disposal Facility		
YSC 2D	Above-ground plumbing broken	10/04/91

Notes

4. WELL CONSTRUCTION

The primary source of data for this section is the SRS Monitoring Well Installation Report (DPSOP 254). Secondary sources include the following:

- SCDHEC Water Well Record
- Monitoring Well Construction Diagram (see Figure 4)
- Field Geologic Log
- Daily Activities Report
- Well Development Report
- Sirrine Design Sheet
- Soil Boring Log
- Sirrine Casing Tally

Guale, Westinghouse Environmental and Geotechnical Services (WEGS) of Columbia, SC; Sirrine Environmental Consultants (SEC) of Greenville, SC; CDM Federal Programs Corp. of Aiken, SC; Dames and Moore of Atlanta, GA; and Science Application International Corp. of Augusta, GA, (the oversight groups) maintained these reports during 1991. EMTC and GECS conducted drilling activities.

Although the **Well Construction** section gathers data from these sources, it does not attempt to replace the original records, from which more detailed information can be obtained. The original records can be found in the EPD/EMS Groundwater Monitoring Library.

Geologic characteristics were logged as noted for each well. Some wells do not have information about geologic characteristics because logging usually is done only for the deepest well in a cluster. Continuous wireline coring is the coring method most often used to determine lithologic and hydrologic characteristics of subsurface sediments. For most boreholes logged this way, the drillers set a temporary surface casing as a guide for the core barrel used in continuous wireline coring. The drillers use the mud rotary method to drill the first stage of the borehole and then set the temporary casing and begin continuous wireline coring. Consequently, continuous wireline coring begins below ground surface for these wells.

1. Total drilled depth
2. Total length of casing
3. Screen length
4. Sump and plug
5. Casing above ground
6. Thickness of grout
7. Depth to top of bentonite seal
8. Depth to top of sand seal
9. Depth to top of filter pack
10. Depth to centralizers
11. Total depth of installed well
12. Hole diameter

Figure 4. Well Construction Diagram

WELL CONSTRUCTION

All depths and measurements given under Placement in this section are from ground level. Casings were cut off at 2.5 ft above ground level after installation, except as noted. However, because of construction activities, the final distances between top of casing and ground level vary. The actual distances between top of casing and ground level will be reported in the **Surveying** section as surveying data are received. The length of the sump includes the sump cap. All pump placements are measured from ground level to the top of the pump. The well installation date for the quarterly report usually is determined by the pump installation date. CS stands for carbon steel; SS stands for stainless steel; and PVC stands for polyvinyl chloride.

AMB WELL SERIES

Metallurgical Laboratory Seepage Basin

Except for AMB 4D, all of the wells in the **AMB Series** were installed in the upper and lower Congaree in 1991 in response to comments from SCDHEC on the Metallurgical Laboratory HWMF Part B Permit Application. AMB 4D was installed to replace AMB 4 because the closure cap for the basin would have covered AMB 4. The drilling and sampling methods for the wells in this series are noted under each well. Geophysical logging was conducted and lithologies were logged for wells AMB 4A, AMB 7A, AMB 10A, AMB 11B, and AMB 13AR. Acceptance dates were not given for any of these wells.

AMB 4A

The borehole was drilled by the mud rotary method from 0 to 285.0 ft and sampled by wireline coring from 0 to 285.0 ft. The borehole was reamed from 0 to 242.0 ft for installation of surface casing and from 235.0 to 285.0 ft for installation of well casing; it was backfilled from 285.0 to 264.0 ft. Drilling began 8/13/91; grouting was completed 8/30/91; the pump was installed 9/20/91. The total depth of the borehole is 285.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface casing	18" Steel	237.0	0-237.0
Casing	4" PVC	258.2	0-252.0
Screen	4" 0.015"-slot PVC	5.0	252.0-257.0
Sump	4" PVC	5.5	257.0-262.5
Pump	Grundfos 10S05-9	-	197.5

AMB 4B

The borehole was drilled by the mud rotary method from 0 to 233.0 ft and was reamed from 0 to 233.0 ft. Drilling began 9/3/91; grouting was completed 9/9/91; the pump was installed 9/20/91. The total depth of the borehole is 233.0 ft. from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	223.5	0-221.0
Screen	4" 0.015"-slot PVC	5.0	221.0-226.0
Sump	4" PVC	5.5	226.0-231.5
Pump	Grundfos 10S05-9	-	197.5

WELL CONSTRUCTION

AMB 4D

The borehole was drilled by the mud rotary method from 0 to 167.0 ft. The borehole was reamed from 0 to 167.0 ft and backfilled from 167.0 to 166.0 ft. Drilling began 9/4/91; grouting was completed 9/9/91; the pump was installed 11/4/91. The total depth of the borehole is 167.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	147.5	0-145.0
Screen	4" 0.015"-slot PVC	20.0	145.0-165.0
Sump	4" PVC	1.0	165.0-166.0
Pump	Grundfos 10S05-9	-	161.5

AMB 7A

The borehole was drilled by the mud rotary method from 0 to 283.0 ft and sampled by conventional coring from 10.0 to 283.0 ft. The borehole was reamed from 0 to 237.0 ft and backfilled from 283.0 to 230.0 ft. Drilling began 7/1/91; grouting was completed 7/26/91; the pump was installed 9/19/91. The total depth of the borehole is 283.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface Casing	12" Steel	233.6	0-233.6
Casing	4" PVC	248.5	0-246.0
Screen	4" 0.015"-slot PVC	10.0	246.0-256.0
Sump	4" PVC	3.0	256.0-259.0
Pump	Grundfos 10S05-9	-	197.5

AMB 7B

The borehole was drilled by the mud rotary method from 0 to 225.0 ft. Drilling began 7/23/91; grouting was completed 7/26/91; the pump was installed 9/19/91. The total depth of the borehole is 225.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	210.5	0-208.0
Screen	4" 0.015"-slot PVC	10.0	208.0-218.0
Sump	4" PVC	5.5	218.0-223.5
Pump	Grundfos 10S05-9	-	197.5

AMB 10A

The borehole was drilled by the mud rotary method from 0 to 270.0 ft and sampled by continuous conventional coring from 10.0 to 270.0 ft. The borehole was reamed from 0 to 270.0 ft and backfilled from 270.0 to 263.0 ft. Drilling began 8/12/91; grouting was completed 8/26/91; the pump was installed 9/19/91. The total depth of the borehole is 270.0 ft from ground level.

WELL CONSTRUCTION

AMB 10A (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	255.5	0-253.0
Screen	4" 0.015"-slot PVC	5.0	253.0-258.0
Sump	4" PVC	2.8	258.0-260.8
Pump	Grundfos 10S05-9	-	252.5

AMB 10B

The borehole was drilled by the mud rotary method from 0 to 223.0 ft. Drilling began 8/26/91; grouting was completed 9/3/91; the pump was installed 9/19/91. The total depth of the borehole is 223.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	212.5	0-210.0
Screen	4" 0.015"-slot PVC	5.0	210.0-215.0
Sump	4" PVC	5.4	215.0-220.4
Pump	Grundfos 10S05-9	-	191.5

AMB 11B

The borehole was drilled by the mud rotary method from 0 to 220.0 ft and sampled by continuous wireline coring from 0 to 220.0 ft. The borehole was reamed from 0 to 190.0 ft and backfilled from 220.0 to 185.0 ft. Drilling began 8/6/91; grouting was completed 8/13/91; the pump was installed 9/20/91. The total depth of the borehole is 220.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	180.0	0-178.0
Screen	4" PVC	10.0	178.0-188.0
Sump	4" PVC	2.5	188.0-190.5
Pump	Grundfos 10S05-9	-	182.5

AMB 13AR

The borehole was drilled by the mud rotary method from 0 to 281.0 ft and sampled by continuous conventional coring from 10.0 to 281.0 ft. The borehole was backfilled from 281.0 to 269.4 ft. Drilling began 7/29/91; grouting was completed 8/8/91. The total depth of the borehole is 281.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	254.5	0-252.0
Screen	4" 0.015"-slot PVC	10.0	252.0-262.0
Sump	4" PVC	5.4	262.0-267.4

WELL CONSTRUCTION

ASB WELL SERIES

Savannah River Laboratory Seepage Basins

Both of the wells in the **ASB Series** were installed as part of the M-Area Phase IV program in compliance with the Natural Resources Defense Council (NRDC) Consent Decree. These wells were drilled by the mud rotary method. Geophysical logging was conducted and lithologies were logged for well ASB 6TA. Acceptance dates were not given for these wells.

ASB 6C

Drilling began 12/18/90; grouting was completed 12/21/90; the pump was installed 2/5/91. The total depth of the borehole is 185 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	175.5	0-173.0
Screen	4" 0.016"-slot PVC	4.7	173.0-177.7
Sump	4" PVC	5.4	177.7-183.1
Pump	Grundfos 10S05-9	-	170.5

ASB 6TA

Drilling began 1/3/91; grouting was completed 1/30/91; the pump was installed 2/8/91. Sampling was done by continuous wireline coring from 275 to 325 ft from ground level. The total depth of the borehole is 325 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface Casing	12" CS	292.0	0-289.5
Casing	4" PVC	313.5	0-311.0
Screen	4" 0.016"-slot SS	5.5	311.0-316.5
Sump	4" SS	2.0	316.5-318.5
Pump	Grundfos 10S05-9	-	197.5

BGO WELL SERIES

Burial Grounds Perimeter Wells

The **BGO Series** wells ending with "R" were installed in 1991 to replace wells that were contaminated with grout or consistently purged dry without producing water for analytical results. The remainder of the BGO wells were installed to comply with the Groundwater Quality Assessment Plan for the Mixed Waste Management Facility that was submitted to SCDHEC to further assess groundwater contamination at the burial grounds. Geophysical logging was conducted and lithologies were logged for BGO 8AR, BGO 10AR, BGO 12AR, BGO 13DR, BGO 14AR, BGO 41A, BGO 42C, BGO 45A, BGO 46B, BGO 47A, BGO 48C, and BGO 49A. Lithologies were logged for BGO 12CR, BGO 40D, BGO 43AA, and BGO 50A. Wells BGO 8AR, BGO 45C, and BGO 45D were accepted by Westinghouse on 6/7/91. Acceptance dates were not given for the remaining wells.

WELL CONSTRUCTION

BGO 8AR

The borehole was drilled by the mud rotary method from 0 to 200.0 ft. Sampling was conducted by taking wash cuttings every 5 to 10 ft from 130.0 to 200.0 ft. Drilling began 2/18/91; grouting was completed 2/25/91; the pump was installed 5/9/91. The total depth of the borehole is 200.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	182.5	0-180.0
Screen	4" 0.020"-slot PVC	10.0	180.0-190.0
Sump	4" PVC	5.4	190.0-195.4
Pump	Grundfos 10S05-9	-	177.5

BGO 10AR

The borehole was drilled by the mud rotary method from 0 to 230.0 ft and backfilled from 230.0 to 211.6 ft. Sampling was conducted by taking wash cuttings every 10 ft from 178.0 to 230.0 ft, with the exception of a 6.9-ft interval between 215.0 and 221.9 ft. Drilling began 2/8/91; grouting was completed 2/20/91; the pump was installed 6/1/91. The total depth of the borehole is 230.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	192.0	0-192.0
Screen	4" 0.020"-slot PVC	10.0	192.0-202.0
Sump	4" PVC	5.4	202.0-207.4
Pump	Grundfos 10S05-9	-	195.5

BGO 10DR

The borehole was drilled by the mud rotary method from 0 to 85.3 ft. Drilling began 2/6/91; grouting was completed 2/8/91. No installation date for the pump is available. The total depth of the borehole is 85.3 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	62.5	0-60.0
Screen	4" 0.020"-slot PVC	20.0	60.0-80.0
Sump	4" PVC	2.6	80.0-82.6
Pump	Grundfos 10S05-9	-	

BGO 12AR

The borehole was drilled by the mud rotary method from 0 to 220.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 170.0 to 220.0 ft. Drilling began 2/7/91; grouting was completed 2/21/91; the pump was installed 6/1/91. The total depth of the borehole is 220.0 ft from ground level.

WELL CONSTRUCTION

BGO 12AR (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	202.0	0-202.0
Screen	4" 0.020"-slot PVC	10.0	202.0-212.0
Sump	4" PVC	5.4	212.0-217.4
Pump	Grundfos 10S05-9	-	217.4

BGO 12CR

The borehole was drilled by the mud rotary method from 0 to 170.0 ft and sampled by taking wash cuttings from 162.0 to 170.0 ft. Drilling began 3/8/91; grouting was completed 3/18/91; the pump was installed 7/11/91. The total depth of the borehole is 170.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	160.5	0-158.0
Screen	4" 0.015"-slot PVC	10.0	158.0-168.0
Sump	4" PVC	1.0	168.0-169.0
Pump	Grundfos 10S05-9	-	158.0

BGO 13DR

The borehole was drilled by the mud rotary method from 0 to 115.0 ft and sampled by taking wash cuttings every 5 ft from 0 to 115.0 ft. Drilling began 2/22/91; grouting was completed 2/27/91; the pump was installed 8/12/91. The total depth of the borehole is 115.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	99.5	0-97.0
Screen	4" 0.016"-slot PVC	10.0	97.0-107.0
Sump	4" PVC	5.4	107.0-112.4
Pump	Grundfos 10S05-9	-	107.0

BGO 14AR

The borehole was reamed from 0 to 217.0 ft. Sampling was conducted by taking wash cuttings every 5 to 10 ft from 160.0 to 215.0 ft. Drilling began 2/18/91; grouting was completed 3/5/91; the pump was installed 6/1/91. The total depth of the borehole is 217.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	191.9	0-191.9
Screen	4" 0.020"-slot PVC	10.0	191.9-201.9
Sump	4" PVC	5.3	201.9-207.2
Pump	Grundfos 10S05-9	-	191.5

WELL CONSTRUCTION

BGO 14CR

The borehole was drilled by the mud rotary method from 0 to 120.0 ft. Drilling began 3/1/91; grouting was completed 3/5/91; the pump was installed 6/1/91. The total depth of the borehole is 120.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	98.3	0-98.3
Screen	4" 0.020"-slot PVC	10.0	98.3-108.3
Sump	4" PVC	5.5	108.3-113.8
Pump	Grundfos 10S05-9	-	98.5

BGO 14DR

The borehole was drilled by the mud rotary method from 0 to 88.0 ft. Drilling began 3/5/91; grouting was completed 3/8/91; the pump was installed 5/9/91. The total depth of the borehole is 88.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	60.1	0-60.1
Screen	4" 0.020"-slot PVC	20.0	60.1-80.1
Sump	4" PVC	2.7	80.1-82.8
Pump	Grundfos 10S05-9	-	77.5

BGO 29C

The borehole was drilled by the mud rotary method from 0 to 93.0 ft. Drilling began 11/11/91; grouting was completed 11/14/91; the pump was installed 12/6/91. The total depth of the borehole is 93.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	78.5	0-76.0
Screen	4" 0.016"-slot PVC	10.0	76.0-86.0
Sump	4" PVC	5.4	86.0-91.4
Pump	Grundfos 10S05-9	-	83.5

BGO 29D

The borehole was drilled by the mud rotary method from 0 to 62.0 ft. Drilling began 11/12/91; grouting was completed 11/13/91; the pump was installed 12/13/91. The total depth of the borehole is 62.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	37.5	0-35.0
Screen	4" 0.016"-slot PVC	20.0	35.0-55.0
Sump	4" PVC	5.4	55.0-60.4
Pump	Grundfos 10S05-9	-	55.0

WELL CONSTRUCTION

BGO 40D

The borehole was drilled by the mud rotary method. Sampling was conducted by taking wash cuttings every 5 ft from 55.0 to 70 ft. Drilling began 3/6/91; grouting was completed 3/14/91; the pump was installed 5/13/91. The total depth of the borehole is 71.1 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	62.4	0-59.9
Screen	4" 0.020"-slot PVC	10.0	59.9-69.8
Sump	4" PVC	1.3	69.8-71.1
Pump	Grundfos 10S05-9	-	68.0

BGO 41A

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and by wireline coring from 10.0 to 202.0 ft and was reamed from 0 to 202.0 ft. The borehole was sampled by continuous wireline coring from 10.0 to 202.0 ft and by Shelby tube from 88.0 to 90.0 ft and from 164.0 to 166.0 ft. Drilling began 5/10/91; grouting was completed 5/24/91; the pump was installed 7/18/91. The total depth of the borehole is 202.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	187.5	0-185.0
Screen	4" 0.016"-slot PVC	10.0	185.0-195.0
Sump	4" PVC	5.8	195.0-200.8
Pump	Grundfos 10S05-9	-	182.5

BGO 42C

The borehole was drilled and sampled by continuous wireline coring from 10 to 105.0 ft and drilled by the mud rotary method from 0 to 70.0 ft. The borehole was reamed from 0 to 114.0. Drilling began 5/7/91; grouting was completed 5/10/91; the pump was installed 7/15/91. The total depth of the borehole is 114.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	102.5	0-100.0
Screen	4" 0.016"-slot PVC	10.0	100.0-110.0
Sump	4" PVC	3.3	110.0-113.3
Pump	Grundfos 10S05-9	-	97.5

BGO 43A

The borehole was drilled by the mud rotary method from 0 to 214.0 ft. Drilling began 4/18/91; grouting was completed 4/26/91; the pump was installed 7/18/91. The total depth of the borehole is 214.0 ft from ground level.

WELL CONSTRUCTION

BGO 43A (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	199.5	0-197.0
Screen	4" 0.016"-slot PVC	10.0	197.0-207.0
Sump	4" PVC	5.5	207.0-212.5
Pump	Grundfos 10S05-9	-	194.5

BGO 43AA

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and then drilled and sampled by continuous wireline coring from 10.0 to 270.0 ft, except that Shelby-tube sampling was conducted from 83.0 to 85.0 ft, from 170.0 to 171.3 ft, and from 185.0 to 187.0 ft. The borehole was reamed from 0 to 260.0 ft. Drilling began 2/28/91; grouting was completed 4/1/91; the pump was installed 7/12/91. The total depth of the borehole is 260.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	242.5	0-240.0
Screen	4" 0.020"-slot PVC	10.0	240.0-250.0
Sump	4" PVC	5.5	250.0-255.5
Pump	Grundfos 10S05-9	-	251.0

BGO 43D

The borehole was drilled by the mud rotary method from 0 to 119.0 ft. Drilling began 4/24/91; grouting was completed 4/29/91; the pump was installed 7/12/91. The total depth of the borehole is 119.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	107.5	0-105.0
Screen	4" 0.016"-slot PVC	10.0	105.0-115.0
Sump	4" PVC	3.0	115.0-118.0
Pump	Grundfos 10S05-9	-	110.5

BGO 45A

Sampling was conducted by continuous wireline coring from 10.0 to 165.0 ft and by the Shelby-tube method from 75.0 to 77.0 ft. Drilling began 2/8/91; grouting was completed 3/6/91; the pump was installed 5/13/91. The total depth of the borehole is 168.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	152.5	0-150.0
Screen	4" 0.020"-slot PVC	10.0	150.0-160.0
Sump	4" PVC	5.5	160.0-165.5
Pump	Grundfos 10S05-9	-	148.0

WELL CONSTRUCTION

BGO 45B

The borehole was drilled by the mud rotary method from 0 to 140.0 ft. Drilling began 3/1/91; grouting was completed 3/8/91; the pump was installed 5/13/91. The total depth of the borehole is 140.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	132.1	0-129.6
Screen	4" 0.016"-slot PVC	10.0	129.6-139.6
Sump	4" PVC	0.4	139.6-140.0
Pump	Grundfos 10S05-9	-	127.5

BGO 45C

The borehole was drilled by the mud rotary method from 0 to 93.0 ft. Drilling began 3/8/91; grouting was completed 3/11/91; the pump was installed 5/13/91. The total depth of the borehole is 93.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	78.5	0-76.0
Screen	4" 0.016"-slot PVC	10.0	76.0-86.0
Sump	4" PVC	5.4	86.0-91.4
Pump	Grundfos 10S05-9	-	84.0

BGO 45D

The borehole was drilled by the mud rotary method from 0 to 70.0 ft. Drilling began 3/17/91; grouting was completed 3/14/91; the pump was installed 5/13/91. The total depth of the borehole is 70.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	49.5	0-47.0
Screen	4" 0.016"-slot PVC	20.0	47.0-67.0
Sump	4" PVC	2.9	67.0-69.9
Pump	Grundfos 10S05-9	-	65.0

BGO 46B

The borehole was drilled by the mud rotary method and wash cuttings were taken every 5 ft from 0 to 10 ft. It was drilled and sampled by continuous wireline coring from 10 to 157 ft. The borehole was backfilled from 157.0 to 130.2 ft. Drilling began 10/24/91; grouting was completed 11/12/91; the pump was installed 12/6/91. The total depth of the borehole is 157.0 ft from ground level.

WELL CONSTRUCTION

BGO 46B (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	115.5	0-113.0
Screen	4" 0.016"-slot PVC	10.0	113.0-123.0
Sump	4" PVC	5.4	123.0-128.4
Pump	Grundfos 10S05-9	-	110.5

BGO 46C

The borehole was drilled by the mud rotary method from 0 to 92.0 ft. Drilling began 11/14/91; grouting was completed 11/19/91. The total depth of the borehole is 92.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	77.5	0-75.0
Screen	4" 0.016"-slot PVC	10.0	75.0-85.0
Sump	4" PVC	5.4	85.0-90.4
Pump	Grundfos 10S05-9	-	83.5

BGO 46D

The borehole was drilled by the mud rotary method from 0 to 64.0 ft. Drilling began 11/15/91; grouting was completed 11/19/91; the pump was installed 12/13/91. The total depth of the borehole is 64.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	59.5	0-57.0
Screen	4" 0.016"-slot PVC	10.0	51.0-61.0
Sump	4" PVC	3.0	61.0-64.0
Pump	Grundfos 10S05-9	-	58.5

BGO 47A

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and from 180.0 to 186.0 ft. It was drilled and sampled by continuous wireline coring from 10.0 to 180.0 ft, except for Shelby-tube sampling from 145.5 to 147.0 ft, and by taking wash cuttings every 5 ft from 0 to 10.0 ft and from 180.0 to 186.0 ft. The borehole was reamed from 10.0 to 180.0 ft. Drilling began 4/3/91; grouting was completed 4/15/91; the pump was installed 7/16/91. The total depth of the borehole is 186.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	170.5	0-168.0
Screen	4" 0.016"-slot PVC	10.0	168.0-178.0
Sump	4" PVC	5.5	178.0-183.5
Pump	Grundfos 10S05-9	-	165.5

WELL CONSTRUCTION

BGO 47C

The borehole was drilled by the mud rotary method from 0 to 113.5 ft and backfilled from 113.5 to 94.4 ft. Drilling began 4/15/91; grouting was completed 4/22/91; the pump was installed 7/15/91. The total depth of the borehole is 113.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	79.5	0-77.0
Screen	4" 0.016"-slot PVC	10.0	77.0-87.0
Sump	4" PVC	5.5	87.0-92.5
Pump	Grundfos 10S05-9	-	72.5

BGO 47D

The borehole was drilled by the mud rotary method from 0 to 69.0 ft. Drilling began 4/11/91; grouting was completed 4/17/91; the pump was installed 7/15/91. The total depth of the borehole is 69.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	54.5	0-52.0
Screen	4" 0.016"-slot PVC	10.0	52.0-62.0
Sump	4" PVC	5.5	62.0-67.5
Pump	Grundfos 10S05-9	-	57.5

BGO 48C

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and then drilled and sampled by continuous wireline coring from 10.0 to 110.0 ft. Drilling began 4/29/91; grouting was completed 5/6/91; the pump was installed 7/16/91. The total depth of the borehole is 110.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	90.5	0-88.0
Screen	4" 0.016"-slot PVC	10.0	88.0-98.0
Sump	4" PVC	5.4	98.0-103.4
Pump	Grundfos 10S05-9	-	101.1

BGO 48D

The borehole was drilled by the mud rotary method from 0 to 76.0 ft. Drilling began 5/3/91; grouting was completed 5/9/91; the pump was installed 7/16/91. The total depth of the borehole is 76.0 ft from ground level.

WELL CONSTRUCTION

BGO 48D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	65.5	0-63.0
Screen	4" 0.016"-slot PVC	10.0	63.0-73.0
Sump	4" PVC	2.9	73.0-75.9
Pump	Grundfos 10S05-9	-	71.0

BGO 49A

The borehole was drilled by the mud rotary method from 0 to 10.0 ft. It was drilled and sampled by continuous wireline coring from 10.0 to 200.0 ft, except for continuous Shelby-tube sampling from 75.0 to 77.0 ft, and by taking wash cuttings every 5 ft from 0 to 10.0 ft. The borehole was reamed from 10.0 to 200.0 ft. Drilling began 5/1/91; grouting was completed 5/14/91; the pump was installed 7/19/91. The total depth of the borehole is 200.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	186.5	0-184.0
Screen	4" 0.016"-slot PVC	10.0	184.0-194.0
Sump	4" PVC	5.5	194.0-199.5
Pump	Grundfos 10S05-9	-	179.5

BGO 49C

The borehole was drilled by the mud rotary method from 0 to 111.6 ft. Drilling began 5/21/91; grouting was completed 5/24/91; the pump was installed 7/17/91. The total depth of the borehole is 111.6 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	95.5	0-93.0
Screen	4" 0.020"-slot PVC	10.0	93.0-103.0
Sump	4" PVC	5.8	103.0-108.8
Pump	Grundfos 10S05-9	-	90.5

BGO 49D

The borehole was drilled by the mud rotary method from 0 to 60.0 ft. Drilling began 5/23/91; grouting was completed 5/24/91; the pump was installed 7/17/91. The total depth of the borehole is 60.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	33.5	0-31.0
Screen	4" 0.020"-slot PVC	20.0	31.0-51.0
Sump	4" PVC	5.4	51.0-56.4
Pump	Grundfos 10S05-9	-	46.5

WELL CONSTRUCTION

BGO 50A

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and then drilled and sampled by continuous wireline coring from 10.0 to 170.0 ft. Drilling began 11/6/91; grouting was completed 11/27/91; the pump was installed 12/12/91. The total depth of the borehole is 170 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface casing	12" Steel	125.5	0-123.0
Casing	4" PVC	155.5	0-153.0
Screen	4" 0.016"-slot PVC	10.0	153.0-163.0
Sump	4" PVC	5.5	163.0-168.5
Pump	Grundfos 10S05-9	-	151.5

BGO 50C

The borehole was drilled by the mud rotary method from 0 to 100.0 ft. Drilling began 11/25/91; grouting was completed 11/27/91; the pump was installed 12/12/91. The total depth of the borehole is 100.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	83.5	0-81.0
Screen	4" 0.016"-slot PVC	10.0	81.0-91.0
Sump	4" PVC	5.5	91.0-96.5
Pump	Grundfos 10S05-9	-	86.5

BGO 50D

The borehole was drilled by the mud rotary method from 0 to 55.0 ft. Drilling began 11/26/91; grouting was completed 11/27/91; the pump was installed 12/12/91. The total depth of the borehole is 55.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	28.5	0-26.0
Screen	4" 0.016"-slot PVC	20.0	26.0-46.0
Sump	4" PVC	5.5	46.0-51.5
Pump	Grundfos 10S05-9	-	43.5

BGX WELL SERIES

E-Area Vaults near the Burial Grounds

Three wells of the **BGX Series**, BGX 1A, BGX 1C, and BGX 2B, were installed in 1991 to comply with the Groundwater Quality Assessment Plan for the MWMF that was submitted to SCDHEC to further assess groundwater contamination at the burial grounds. All of the BGX wells were installed to monitor the Burial Ground Expansion Site and acquire background groundwater quality data. The drilling and sampling methods for these wells are noted under each well. Geophysical logging was conducted and lithologies were logged for BGX 1A, BGX 2B, BGX 4A, and BGX 8D. Lithologies were logged for BGX 3D and BGX 5D.

WELL CONSTRUCTION

Geophysical logging was conducted for BGX 12C. Wells BGX 2B, BGX 2D, BGX 4A, BGX 4C, BGX 4D, BGX 5D, BGX 9D, BGX 10D, and BGX 12D were accepted by Westinghouse on 6/7/91.

BGX 1A

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and by wireline coring from 10.0 to 197.0 ft. It was sampled by continuous wireline coring from 10.0 to 197.0 ft, except for continuous Shelby-tube sampling from 80.0 to 82.0 ft, 156.0 to 156.2 ft, and 182.0 to 182.7 ft. The borehole was reamed from 0 to 197.0 ft and backfilled from 197.0 to 178.3 ft. Drilling began 3/19/91; grouting was completed 4/12/91; the pump was installed 7/22/91. The total depth of the borehole is 197.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	167.5	0-165.0
Screen	4" 0.016"-slot PVC	10.0	165.0-175.0
Sump	4" PVC	2.9	175.0-177.9
Pump	Grundfos 10S05-9	-	157.5

BGX 1C

The borehole was drilled by the mud rotary method from 0 to 120.0 ft. Drilling began 4/22/91; grouting was completed 4/25/91; the pump was installed 7/22/91. The total depth of the borehole is 120.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	105.8	0-103.3
Screen	4" 0.016"-slot PVC	10.0	103.3-113.3
Sump	4" PVC	5.4	113.3-118.7
Pump	Grundfos 10S05-9	-	98.5

BGX 1D

The borehole was drilled by the mud rotary method from 0 to 75.0 ft. Drilling began 4/26/91; grouting was completed 4/29/91; the pump was installed 7/23/91. The total depth of the borehole is 75.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	57.0	0-54.5
Screen	4" 0.016"-slot PVC	20.0	54.5-74.5
Sump	4" PVC	0.5	74.5-75.0
Pump	Grundfos 10S05-9	-	71.5

WELL CONSTRUCTION

BGX 2B

The borehole was drilled by wireline coring from 0 to 188.0 ft and reamed from 0 to 155.0 ft. Sampling was conducted by continuous wireline coring from 10.0 to 188.0 ft and by Shelby tube from 75.0 to 77.0 ft. Backfilling was done from 188.0 to 147.7 ft. Drilling began 1/29/91; grouting was completed 2/15/91; the pump was installed 5/8/91. The total depth of the borehole is 188.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	144.5	0-142.0
Screen	4" 0.020"-slot PVC	10.0	142.0-152.0
Sump	4" PVC	2.6	152.0-154.6
Pump	Grundfos 10S05-9	-	150.0

BGX 2D

The borehole was drilled by the mud rotary method from 0 to 115.0 ft. Drilling began 2/27/91; grouting was completed 3/1/91; the pump was installed 5/9/91. The total depth of the borehole is 115.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	100.5	0-98.0
Screen	4" 0.016"-slot PVC	10.0	98.0-108.0
Sump	4" PVC	5.4	108.0-113.4
Pump	Grundfos 10S05-9	-	106.0

BGX 3D

The borehole was drilled by the auger method from 0 to 78.5 ft and by the mud rotary method from 78.5 to 95.0 ft. The borehole was reamed from 0 to 78.5 ft. Sampling was conducted by taking auger cuttings every 10 ft from 0 to 78.5 ft and wash cuttings every 5 ft from 78.5 to 95.0 ft. Drilling began 1/25/91; grouting was completed 2/7/91; the pump was installed 5/10/91. The total depth of the borehole is 95.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	70.0	0-67.5
Screen	4" 0.020"-slot PVC	20.0	67.5-87.5
Sump	4" PVC	5.4	87.5-92.9
Pump	Grundfos 10S05-9	-	85.5

BGX 4A

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and drilled and sampled by continuous wireline coring from 10.0 to 190.0 ft. The borehole was reamed from 0 to 190.0 ft. Drilling began 1/10/91; grouting was completed 1/22/91; the pump was installed 5/10/91. The total depth of the borehole is 190.0 ft from ground level.

WELL CONSTRUCTION

BGX 4A (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	174.5	0-172.0
Screen	4" 0.016"-slot PVC	10.0	172.0-182.0
Sump	4" PVC	5.4	182.0-187.4
Pump	Grundfos 10S05-9	-	170.0

BGX 4C

The borehole was drilled by the mud rotary method from 0 to 125.0 ft. Drilling began 1/18/91; grouting was completed 1/29/91; the pump was installed 5/10/91. The total depth of the borehole is 125.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	110.5	0-108.0
Screen	4" 0.020"-slot PVC	10.0	108.0-118.0
Sump	4" PVC	5.4	118.0-123.4
Pump	Grundfos 10S05-9	-	116.0

BGX 4D

The borehole was drilled by the mud rotary method from 0 to 90.0 ft. Drilling began 1/23/91; grouting was completed 1/29/91; the pump was installed 5/10/91. The total depth of the borehole is 90.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	67.5	0-65.0
Screen	4" 0.020"-slot PVC	20.0	65.0-85.0
Sump	4" PVC	5.4	85.0-90.4
Pump	Grundfos 10S05-9	-	83.0

BGX 5D

The borehole was drilled by the hollow-stem auger method from 0 to 98.0 ft, then reamed from 0 to 98.0 ft. Sampling was conducted by auger cuttings taken every 5 ft from 0 to 98.0 ft. Drilling began 1/28/91; grouting was completed 2/5/91; the pump was installed 5/10/91. The total depth of the borehole is 98.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	70.5	0-68.0
Screen	4" 0.020"-slot PVC	20.0	68.0-88.0
Sump	4" PVC	5.4	88.0-93.4
Pump	Grundfos 10S05-9	-	86.0

WELL CONSTRUCTION

BGX 6D

The borehole was drilled by the mud rotary method from 0 to 90.0 ft. Drilling began 4/12/91; grouting was completed 4/15/91; the pump was installed 5/27/91. The total depth of the borehole is 90.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	64.0	0-64.0
Screen	4" 0.020"-slot PVC	20.0	64.0-84.0
Sump	4" PVC	5.5	84.0-89.5
Pump	Grundfos 10S05-9	-	86.0

BGX 7D

The borehole was drilled by the mud rotary method from 0 to 90.0 ft. Drilling began 4/5/91; grouting was completed 4/12/91; the pump was installed 10/24/91. The total depth of the borehole is 90.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface casing (temporary)	12" PVC	21.5	0-19.0
Casing	4" PVC	65.5	0-63.0
Screen	4" 0.020"-slot PVC	20.0	63.0-83.0
Sump	4" PVC	5.5	83.0-88.5
Pump	Grundfos 10S05-9	-	83.0

BGX 8D

The borehole was drilled by the mud rotary method from 0 to 115.0 ft and sampled by taking wash cuttings every 5 to 10 ft from 60.0 to 100.0 ft. Drilling began 5/29/91; grouting was completed 6/6/91; the pump was installed 7/17/91. The total depth of the borehole is 115.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	75.5	0-73.0
Screen	4" 0.020"-slot PVC	20.0	73.0-93.0
Sump	4" PVC	5.4	93.0-98.4
Pump	Grundfos 10S05-9	-	87.5

BGX 9D

The borehole was drilled by the mud rotary method from 0 to 73.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 42.0 to 73.0 ft, and lithologies were logged. Drilling began 3/18/91; grouting was completed 3/18/91; the pump was installed 5/8/91. The total depth of the borehole is 73.0 ft from ground level.

WELL CONSTRUCTION

BGX 9D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	47.5	0-45.0
Screen	4" 0.015"-slot PVC	20.0	45.0-65.0
Sump	4" PVC	5.4	65.0-70.4
Pump	Grundfos 10S05-9	-	63.5

BGX 10D

The borehole was drilled by the mud rotary method from 0 to 64.0 ft. Drilling began 1/31/91; grouting was completed 2/6/91; the pump was installed 5/7/91. The total depth of the borehole is 64.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	41.1	0-38.6
Screen	4" 0.016"-slot PVC	20.0	38.6-58.6
Sump	4" PVC	5.4	58.6-64.0
Pump	Grundfos 10S05-9	-	56.5

BGX 12C

The borehole was drilled by the mud rotary method from 0 to 115.0 ft. Drilling began 1/17/91; grouting was completed 1/21/91; the pump was installed 5/8/91. The total depth of the borehole is 115.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	91.5	0-89.0
Screen	4" 0.016"-slot PVC	10.0	89.0-99.0
Sump	4" PVC	5.4	99.0-104.4
Pump	Grundfos 10S05-9	-	97.0

BGX 12D

The borehole was drilled by the mud rotary method from 0 to 55.0 ft. Drilling began 1/18/91; grouting was completed 1/21/91; the pump was installed 5/8/91. The total depth of the borehole is 55.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	32.0	0-29.5
Screen	4" 0.016"-slot PVC	20.0	29.5-49.5
Sump	4" PVC	5.5	49.5-55.0
Pump	Grundfos 10S05-9	-	47.5

WELL CONSTRUCTION

BTP WELL SERIES

Proposed Sanitary Landfill, Site B

Thirty wells in the **BTP Series** were installed as piezometers for site characterization at Site B of the Proposed Sanitary Landfill. No pumps were installed; the wells cannot be sampled for groundwater quality. Geophysical logging was conducted and lithologies were logged for wells BTP 5C, BTP 6C, BTP 8C, BTP 9C, BTP 10C, BTP 11C, and BTP 12C. Lithologies were logged for wells BTP 3D and BTP 4D. These wells were accepted by Westinghouse on 3/12/91. For each well cluster that has well names ending with "D" and "DD," two piezometers were installed in one borehole. Drilling and geologic sampling are detailed under the well name ending with "D."

BTP 1D

The borehole was drilled by the hollow-stem auger method from 0 to 49 ft. Sampling was conducted by the Shelby-tube method from 4 to 51 ft. The borehole was reamed from 49 to 72 ft. Drilling began 9/6/90; grouting was completed 10/9/90. The total depth of the borehole is 72 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	61.0	0-58.5
Screen	2" 0.015"-slot PVC	10.0	58.5-68.5
Bottomplug	2" PVC	0.5	68.5-69.0

BTP 1DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	43.0	0-40.5
Screen	1" 0.015"-slot PVC	10.0	40.5-50.5
Bottomplug	1" PVC	0.2	50.5-50.7

BTP 2D

The borehole was drilled by the auger method from 0 to 89.0 ft, sampled by split spoon every 5 ft from 3 to 50 ft, and reamed from 0 to 89.0 ft. Drilling began 9/18/90; grouting was completed 10/8/90. The total depth of the borehole is 89.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	78.0	0-75.5
Screen	2" 0.015"-slot PVC	10.0	75.5-85.5
Bottomplug	2" PVC	0.4	85.5-85.9

WELL CONSTRUCTION

BTP 2DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	60.0	0-57.5
Screen	1" 0.015"-slot PVC	10.2	57.5-67.7
Bottomplug	1" PVC	0.3	67.7-68.0

BTP 3D

The borehole was drilled by the auger method from 0 to 58.0 ft and by the mud rotary method from 58.0 to 76.0 ft. Split-spoon sampling was done every 5 ft from 3 to 50 ft from ground level; lithologies were logged. Drilling began 9/19/90; grouting was completed 10/8/90. The total depth of the borehole is 76.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	65.0	0-62.5
Screen	2" 0.015"-slot PVC	10.0	62.5-72.5
Bottomplug	2" PVC	0.5	72.5-73.0

BTP 3DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	47.0	0-44.5
Screen	1" 0.015"-slot PVC	10.0	44.5-54.5
Bottomplug	1" PVC	0.2	54.5-54.7

BTP 4D

The borehole was drilled by the auger method from 0 to 73.0 ft and by the mud rotary method from 73.0 to 85.0 ft. Drilling began 9/19/90; grouting was completed 10/8/90. Split-spoon sampling was conducted every 5 ft from 3 to 50 ft. The total depth of the borehole is 85.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	74.0	0-71.5
Screen	2" 0.015"-slot PVC	10.0	71.5-81.5
Bottomplug	2" PVC	0.5	81.5-82.0

BTP 4DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	56.0	0-53.5
Screen	1" 0.015"-slot PVC	10.0	53.5-63.5
Bottomplug	1" PVC	0.3	63.5-63.8

WELL CONSTRUCTION

BTP 5C

The borehole was drilled by the mud rotary method from 0 to 240.0 ft, by conventional coring from 240.0 to 266.0 ft, and by pitcher barrel method from 266.0 to 270.5 ft. Sampling was done by taking wash cuttings every 5 ft from 0 to 240.0 ft and by continuous conventional coring from 240.0 ft to 266 ft, except that Shelby-tube sampling was conducted from 246.5 to 249.0 ft and from 251.0 to 253.3 ft. Sampling was completed by Shelby tubes from 266 to 268.5 ft and from 268.5 to 270.5 ft. The borehole was backfilled from 270.5 to 194.3 ft. Drilling began 10/3/90; grouting was completed 11/26/90.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	182.5	0-180.0
Screen	2" 0.015"-slot PVC	10.0	180.0-190.0
Bottomplug	2" PVC	0.3	190.0-190.3

BTP 6C

The borehole was drilled by the mud rotary method from 0 to 272.3 ft and by pitcher barrel method from 272.3 to 274.3 ft. Wash cuttings were taken every 5 ft from 0 to 272.0 ft, except that Shelby-tube samples were taken from 268.0 to 269.5 ft and from 270 to 270.4 ft. Sampling was completed by Shelby-tube sampling from 272.0 to 272.3 ft and from 272.3 to 274.3 ft. Drilling began 9/10/90; grouting was completed 9/25/90. The total depth of the borehole is 274.3 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	187.5	0-185.0
Screen	2" 0.015"-slot PVC	10.0	185.0-195.0
Bottomplug	2" PVC	0.3	195.0-195.3

BTP 6D

The borehole was drilled by the mud rotary method from 0 to 87.0 ft. Drilling began 9/20/90; grouting was completed 9/25/90. The total depth of the borehole is 87.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	78.5	0-76.0
Screen	2" 0.015"-slot PVC	10.0	76.0-86.0
Bottomplug	2" PVC	0.3	86.0-86.3

BTP 6DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	57.5	0-55.0
Screen	1" 0.015"-slot PVC	10.0	55.0-65.0
Bottomplug	1" PVC	0.3	65.0-65.3

WELL CONSTRUCTION

BTP 7C

The borehole was drilled by the mud rotary method from 0 to 310.0 ft, except for conventional coring from 262.0 to 272.0 ft and from 275.5 to 290.0 ft. The cored intervals were later reamed. Sampling was done by wash cuttings every 5 ft, except when done by continuous coring (262.0 to 272.0 ft and 275.5 to 290.0 ft). The borehole was backfilled from 310.0 to 224.7 ft. Drilling began 11/13/90; grouting was completed 11/26/90. The total depth of the borehole is 310.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	214.5	0-212.0
Screen	2" 0.015"-slot PVC	10.0	212.0-222.0
Bottomplug cap	2" PVC	0.3	222.0-222.3

BTP 7D

The borehole was drilled by the mud rotary method from 0 to 105.0 ft. Drilling began 11/21/90; grouting was completed 12/4/90. The total depth of the borehole is 105.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	87.5	0-85.0
Screen	2" 0.015"-slot PVC	10.0	85.0-95.0
Bottomplug	2" PVC	0.3	95.0-95.3

BTP 7DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	69.5	0-67.0
Screen	1" 0.015"-slot PVC	10.0	67.0-77.0
Bottomplug	1" PVC	0.3	77.0-77.3

BTP 8C

The borehole was drilled by the mud rotary method from 0 to 225.0 ft. Sampling of wash cuttings was conducted every 5 ft (circulation was lost at 125.0 ft.) from 0 to 125.0 ft. Drilling began 8/15/90; grouting was completed 8/29/90. The total depth of the borehole is 225.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	207.4	0-204.9
Screen	2" 0.015"-slot PVC	10.1	204.9-215.0
Bottomplug	2" PVC	0.2	215.0-215.2

WELL CONSTRUCTION

BTP 8D

The borehole was drilled by the mud rotary method from 0 to 102.0 ft. Drilling began 8/28/90; grouting was completed 8/29/90. The total depth of the borehole is 102.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	92.5	0-90.0
Screen	2" 0.015"-slot PVC	10.0	90.0-100.0
Bottomplug	2" PVC	0.3	100.0-100.3

BTP 8DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	74.5	0-72.0
Screen	1" 0.015"-slot PVC	10.0	72.0-82.0
Bottomplug	1" PVC	0.3	82.0-82.3

BTP 9C

The borehole was drilled by the mud rotary method from 0 to 285.0 ft and by pitcher barrel method from 285.0 to 287.5 ft. Sampling was conducted by wash cuttings every 5 ft from 0 to 285.0 ft, except where Shelby tubes were taken from 260.0 to 260.6 ft and from 260.6 to 262.6 ft. Sampling was completed by Shelby tube from 285.0 to 287.5 ft. The borehole was backfilled from 287.5 to 195.1 ft. Drilling began 9/26/90; grouting was completed 10/3/90. The total depth of the borehole is 287.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	185.5	0-183.0
Screen	2" 0.015"-slot PVC	10.0	183.0-193.0
Bottomplug cap	2" PVC	0.3	193.0-193.3

BTP 9D

The borehole was drilled by the mud rotary method from 0 to 77.0 ft. Drilling began 10/2/90; grouting was completed 10/3/90. The total depth of the borehole is 77 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	67.5	0-65.0
Screen	2" 0.015"-slot PVC	10.0	65.0-75.0
Bottomplug	2" PVC	0.3	75.0-75.3

WELL CONSTRUCTION

BTP 9DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	49.5	0-47.0
Screen	1" 0.015"-slot PVC	10.1	47.0-57.1
Bottomplug cap	1" PVC	0.2	57.1-57.3

BTP 10C

The borehole was drilled by the mud rotary method from 0 to 300.0 ft; a Shelby tube was pushed from 300.0 to 302.0 ft. Wash cuttings were taken at 5-ft intervals from 0 to 300.0 ft, and a Shelby-tube sample was collected from 300 to 302 ft. Lithologies were logged. The borehole was backfilled from 302.0 to 179.9 ft. Drilling began 7/18/90 but was interrupted until 08/29/90; grouting was completed 9/5/90. The total depth of the borehole is 302.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	169.0	0-166.5
Screen	2" 0.015"-slot PVC	10.0	166.5-176.5
Bottomplug	2" PVC	0.6	176.5-177.1

BTP 10D

The borehole was drilled by the mud rotary method from 0 to 68.0 ft. Drilling began 9/5/90; grouting was completed 9/6/90. The total depth of the borehole is 68.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	57.5	0-55.0
Screen	2" 0.015"-slot PVC	10.0	55.0-65.0
Bottomplug	2" PVC	0.5	65.0-65.5

BTP 10DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	37.5	0-35.0
Screen	1" 0.015"-slot PVC	10.0	35.0-45.0
Bottomplug	1" PVC	0.3	45.0-45.3

BTP 11C

The borehole was drilled by the mud rotary method from 0 to 250.0 ft and 287.0 to 300.0 ft, and drilled and sampled by continuous conventional coring from 250.0 to 287.0 ft, except for a Shelby-tube sample collected by the pitcher-barrel method from 280.0 to 282.5 ft. Wash cuttings were taken every 5 ft from 0 to 250.0 ft and 287.0 to 300.0 ft. The borehole was reamed from 250.0 to 287.0 ft and backfilled from 300.0 to 203.1 ft. Drilling began 10/29/90; grouting was completed 11/16/90. The total depth of the borehole is 300.0 ft from ground level.

WELL CONSTRUCTION

BTP 11C (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	192.5	0-190.0
Screen	2" 0.015"-slot PVC	10.0	190.0-200.0
Bottomplug	2" PVC	0.3	200.0-200.3

BTP 11D

The borehole was drilled by the mud rotary method from 0 to 78.0 ft. Drilling began 11/8/90; grouting was completed 11/12/90. The total depth of the borehole is 78.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	68.5	0-66.0
Screen	2" 0.015"-slot PVC	10.0	66.0-76.0
Bottomplug	2" PVC	0.3	76.0-76.3

BTP 11DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	50.5	0-48.0
Screen	1" 0.015"-slot PVC	10.1	48.0-58.1
Bottomplug	1" PVC	0.2	58.1-58.3

BTP 12C

The borehole was drilled and sampled by the mud rotary method with wash cuttings collected every 5 ft from 0 to 280.0 ft, except where it was drilled and sampled by continuous conventional coring from 175.0 to 180.0 ft and 183.7 to 189.0 ft and by pitcher barrel-drilled Shelby tubes from 180.0 to 181.5 ft and 181.5 to 183.7 ft. Sampling was completed by continuous conventional coring from 280.0 ft to 310.0 ft. The borehole was reamed from 175.0 to 189.0 ft and backfilled from 310.0 to 202.5 ft. Drilling began 12/14/90; grouting was completed 1/4/91. The total depth of the borehole is 310.0 feet from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	192.5	0-190.0
Screen	2" 0.015"-slot PVC	10.0	190.0-200.0
Bottomplug	2" PVC	0.3	200.0-200.3

BTP 12D

The borehole was drilled by the mud rotary method from 0 to 81.0 ft. Drilling began 1/2/91; grouting was completed 1/4/91. The total depth of the borehole is 81.0 ft from ground level.

WELL CONSTRUCTION

BTP 12D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	68.5	0-66.0
Screen	2" 0.015"-slot PVC	10.0	66.0-76.0
Bottomplug	2" PVC	0.3	76.0-76.3

BTP 12DD

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	1" PVC	50.5	0-48.0
Screen	1" 0.015"-slot PVC	10.1	48.0-58.1
Bottomplug	1" PVC	0.3	58.1-58.4

FCA WELL SERIES

F-Area Canyon Building

One replacement well was installed in **FCA Series** in 1991 to replace FCA 9D. Lithologies were logged. An acceptance date was not given.

FCA 9DR

The borehole was drilled by the auger method from 0 to 107.5 ft and sampled by taking variable auger cuttings. Drilling began 7/25/91; grouting was completed 8/22/91. The total depth of the borehole is 107.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	85.0	0-82.5
Screen	2" 0.015"-slot PVC	20.0	82.5-102.5
Sump	2" PVC	5.0	102.5-107.5

FSB WELL SERIES

F-Area Seepage Basins

Seven wells were installed at the F-Area Seepage Basins in 1991. Wells FSB 98AR and FSB121DR were installed as replacement wells for FSB 98A and FSB121D. Of the remaining five wells, well FSB 0PD was installed as an aquifer test pumping well south of the F-Area Seepage Basins. The other four wells are piezometers that monitor water fluctuations during the pumping test. The drilling and sampling methods for these wells are noted under each well. Geophysical logging was conducted and lithologies were logged for well FSB 0PD. Lithologies were logged for wells FSB 25PD, FSB 50PD, FSB100PD, and FSB150PD.

WELL CONSTRUCTION

FSB 0PD

The borehole was drilled by the auger method from 0 to 10.0 ft and by the mud rotary method from 10.0 to 85.0 ft. Sampling by the wireline coring method was continuous from 10 to 85 ft. The borehole was backfilled with sand from 85.0 to 27.0 ft and with bentonite gravel from 27.0 to 0 ft. The borehole was reamed from 0 to 85 ft for setting of the well casing. Drilling began 10/24/91; grouting was completed 10/29/91. The total depth of the borehole is 85.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	39.8	0-37.3
Screen	4" 0.016"-slot PVC	43.7	37.3-81.0
Sump	4" PVC	3.0	81.0-84.0

FSB 25PD

The borehole was drilled by the mud rotary method from 0 to 85.0 ft. Wash cuttings were sampled every 10 ft from 0 to 85.0 ft. Drilling began 10/30/91; grouting was completed 10/30/91. The total depth of the borehole is 85.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	38.4	0-35.9
Screen	2" 0.016"-slot PVC	45.1	35.9-81.0
Sump	2" PVC	3.1	81.0-84.1

FSB 50PD

The borehole was drilled by the mud rotary method from 0 to 85.0 ft. Wash cuttings were sampled every 10 ft from 0 to 85.0 ft. Drilling began 11/1/91; grouting was completed 11/1/91. The total depth of the borehole is 85.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	38.4	0-35.9
Screen	2" 0.016"-slot PVC	45.1	35.9-81.0
Sump	2" PVC	3.1	81.0-84.1

FSB 98AR

The borehole was drilled by the mud rotary method from 0 to 210.0 ft. The borehole was backfilled from 210 to 205 ft. Drilling began 9/5/91; grouting was completed 10/7/91. The total depth of the borehole is 210.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface casing	12" Steel	174.5	0-174.5
Casing	4" PVC	192.5	0-190.0
Screen	4" 0.015"-slot PVC	10.0	190.0-200.0
Sump	4" PVC	5.3	200.0-205.3

WELL CONSTRUCTION

FSB100PD

The borehole was drilled by the mud rotary method from 0 to 79.0 ft. Wash cuttings were sampled every 10 ft from 0 to 79.0 ft. Drilling began 11/5/91; grouting was completed 11/5/91. The total depth of the borehole is 79.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	37.9	0-35.4
Screen	2" 0.016"-slot PVC	40.1	35.4-75.5
Sump	2" PVC	3.1	75.5-78.6

FSB121DR

The borehole was drilled by the mud rotary method from 0 to 64.5 ft. Drilling began 9/4/91; grouting was completed 9/4/91; the pump was installed 9/23/91. The total depth of the borehole is 64.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	44.5	0-42.0
Screen	4" 0.015"-slot PVC	20.0	42.0-62.0
Sump	4" PVC	2.8	62.0-64.8
Pump	Grundfos 10S05-9	-	-

FSB150PD

The borehole was drilled by the mud rotary method from 0 to 85.0 ft. Wash cuttings were sampled every 10 ft from 0 to 85.0 ft. Drilling began 11/4/91; grouting was completed 11/4/91. The total depth of the borehole is 85.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	38.4	0-35.9
Screen	2" 0.016"-slot PVC	45.1	35.9-81.0
Sump	2" PVC	3.1	81.0-84.1

HMD WELL SERIES

Hazardous Waste/Mixed Waste Disposal Facility

Four wells of the **HMD Series**, installed north of the Burial Grounds in 1991 to monitor the new Hazardous Waste/Mixed Waste Disposal Facility, are required to acquire background groundwater quality data. The drilling methods for these wells are noted under each well. Geophysical logging and geologic sampling were not conducted. The wells were accepted by Westinghouse on 2/8/91.

WELL CONSTRUCTION

HMD 1D

The borehole was drilled by the mud rotary method from 0 to 68.0 ft. Drilling began 1/8/91; grouting was completed 2/1/91; the pump was installed 1/31/91. The total depth of the borehole is 68.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	45.5	0-43.0
Screen	4" 0.016"-slot PVC	20.0	43.0-63.0
Sump	4" PVC	2.7	63.0-65.7
Pump	Grundfos 10S05-9	-	61.5

HMD 2D

The borehole was drilled by the mud rotary method from 0 to 69.0 ft. Drilling began 1/9/91; grouting was completed 2/1/91; the pump was installed 1/31/91. The total depth of the borehole is 69.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	51.0	0-48.5
Screen	4" 0.016"-slot PVC	20.0	48.5-68.5
Sump	4" PVC	0.5	68.5-69.0
Pump	Grundfos 10S05-9	-	67.0

HMD 3D

The borehole was drilled by the mud rotary method from 0 to 71.0 ft. Drilling began 1/9/91; grouting was completed 2/1/91; the pump was installed 1/31/91. The total depth of the borehole is 71.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	52.3	0-49.8
Screen	4" 0.016"-slot PVC	20.0	49.8-69.8
Sump	4" PVC	1.2	69.8-71.0
Pump	Grundfos 10S05-9	-	70.0

HMD 4D

The borehole was drilled by the mud rotary method from 0 to 60.0 ft. Drilling began 1/10/91; grouting was completed 2/1/91; the pump was installed 1/31/91. The total depth of the borehole is 60.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	42.1	0-39.6
Screen	4" 0.016"-slot PVC	20.0	39.6-59.6
Sump	4" PVC	0.4	59.6-60.0
Pump	Grundfos 10S05-9	-	59.0

WELL CONSTRUCTION

HSB WELL SERIES

H-Area Seepage Basins

Sixteen wells were installed in the H-Area Seepage Basins in 1991. Well HSB124AR was installed as a replacement well for HSB124A. Well HSB 0PC was installed as an aquifer test pumping well south of the H-Area Seepage Basins. Four wells, HSB 25PC, HSB 50PC, HSB100PC, and HSB150PC, are piezometers that monitor water fluctuations during the pumping test. The remaining wells were installed to comply with the Groundwater Quality Assessment Plan for the H-Area Seepage Basins to further assess groundwater contamination. The drilling and sampling methods for these wells are noted under each well. The drilling and sampling methods for the wells in the HSB Series are noted under each well. Lithologies were logged for HSB 0PC, HSB 25PC, HSB 50PC, HSB100PC, HSB141A, HSB141C, HSB141D, and HSB150PC. Geophysical logging was conducted and lithologies were logged for wells HSB142C and HSB143C.

HSB 0PC

The borehole was drilled by the mud rotary method from 0 to 10.0 ft and then drilled and sampled by wireline coring every 2 to 5 ft from 10.0 to 116.0 ft. Shelby-tube samples were taken from 35.0 to 37.0 ft. Drilling began 11/6/91; grouting was completed 11/13/91. The total depth of the borehole is 116.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	59.5	0-57.0
Screen	4" 0.016"-slot PVC	53.6	57.0-110.6
Sump	4" PVC	2.8	110.6-113.4

HSB 25PC

The borehole was drilled by the mud rotary method from 0 to 114.0 ft. Wash cuttings were sampled every 10 ft from 0 to 114.0 ft, except that Shelby-tube samples were taken from 50.0 to 52.0 ft. Drilling began 11/13/91; grouting was completed 11/15/91. The total depth of the borehole is 114.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	62.4	0-59.9
Screen	2" 0.016"-slot PVC	50.1	59.9-110.0
Sump	2" PVC	3.1	110.0-113.1

HSB 50PC

The borehole was drilled by the mud rotary method from 0 to 114.0 ft and wash cuttings were sampled every 10 ft from 0 to 114.0 ft. Drilling began 11/18/91; grouting was completed 11/19/91. The total depth of the borehole is 114.0 ft from ground level.

WELL CONSTRUCTION

HSB 50PC (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	62.3	0-59.8
Screen	2" 0.016"-slot PVC	50.1	59.8-109.9
Sump	2" PVC	3.1	109.9-113.0

HSB100PC

The borehole was drilled by the mud rotary method from 0 to 114.0 ft and wash cuttings were sampled every 10 ft from 0 to 114.0 ft. Drilling began 11/13/91; grouting was completed 11/15/91. The total depth of the borehole is 114.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	62.4	0-59.9
Screen	2" 0.016"-slot PVC	50.1	59.9-110.0
Sump	2" PVC	3.0	110.0-113.0

HSB124AR

The borehole was drilled by the mud rotary method from 0 to 150.0 ft to install surface casing. The surface casing grout then was reamed from 146.0 to 148.0 ft and the borehole was further drilled by the mud rotary method from 148.0 to 178.0 ft. The borehole was backfilled from 178 to 175 ft. Drilling began 10/1/90; grouting was completed 10/22/90. The total depth of the borehole is 178.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface casing	12" Steel	148.8	0-143.8
Casing	4" PVC	162.5	0-160.0
Screen	4" 0.016"-slot PVC	10.0	160.0-170.0
Sump	4" PVC	5.0	170.0-175.0

HSB141A

The borehole was drilled by the mud rotary method from 0 to 180.0 ft. Continuous wireline coring samples were taken from 10.0 to 180.0 ft. Geophysical logging was conducted. Drilling began 7/25/90; grouting was completed 8/16/90; the pump was installed 1/3/91. The total depth of the borehole is 180.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	164.5	0-162.0
Screen	4" 0.016"-slot PVC	10.0	162.0-172.0
Sump	4" PVC	3.0	172.0-175.0
Pump	Grundfos 10S05-9	-	157.5

WELL CONSTRUCTION

HSB141C

The borehole was drilled by the mud rotary method from 0 to 105.0 ft. Wash cuttings were taken every 5 ft from 0 to 105.0 ft, and a Shelby-tube sample was collected from 73 to 75 ft. Drilling began 8/1/90; grouting was completed 8/2/90; the pump was installed 1/4/91. The total depth of the borehole is 105.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	90.5	0-88.0
Screen	4" slot PVC	10.0	88.0-98.0
Sump	4" PVC	3.6	98.0-101.6
Pump	Grundfos 10S05-9	-	92.5

HSB141D

The borehole was drilled by the mud rotary method from 0 to 52.0 ft. Wash cuttings were taken every 5 ft. The borehole collapsed from 47 to 52 ft and was backfilled from 47.0 to 37.5 ft. Drilling began 7/30/90; grouting was completed 8/2/90; the pump was installed 1/15/91. The total depth of the borehole is 52.0 ft from ground level

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	17.5	0-15.0
Screen	4" slot PVC	20.0	15.0-35.0
Sump cap	4" PVC	3.1	35.0-38.1
Pump	Grundfos 10S05-9	-	32.5

HSB142C

The borehole was drilled by the mud rotary method from 0 to 14.0 ft and drilled and sampled by continuous wireline coring from 14.0 to 51.0 ft. The borehole was reamed from 0 to 44.0 ft and backfilled from 51.0 to 44.0 ft. Drilling began 10/9/90; grouting was completed 11/5/90; the pump was installed 1/10/91. The total depth of the borehole is 51.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	32.5	0-30.0
Screen	4" 0.010"-slot PVC	10.0	30.0-40.0
Sump	4" PVC	2.9	40.0-42.9
Pump	Grundfos 10S05-9	-	37.5

HSB142D

The borehole was drilled by the mud rotary method from 0 to 24.0 ft. The borehole was backfilled from 24.0 to 13.8 ft. Drilling began 11/2/90. No grouting was done; the pad rests on the bentonite seal. The pump was installed 1/10/91. The total depth of the borehole is 24.0 ft from ground level.

WELL CONSTRUCTION

HSB142D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	4.5	0-2.0
Screen	4" 0.010"-slot PVC	10.0	2.0-12.0
Sump cap	4" PVC	0.4	12.0-12.4
Pump	Grundfos 10S05-9	-	7.5

HSB143C

A first borehole, drilled to 72.0 ft, lost circulation and caved in. Grouting for the purpose of abandoning this first borehole was completed 11/5/90. The second borehole was drilled by the mud rotary method from 0 to 60.0 ft. Continuous wireline coring was done from 17.0 to 60.0 ft. Drilling began 10/4/90; grouting was completed 10/9/90; the pump was installed 1/10/91. The total depth of the borehole is 60.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	43.5	0-41.0
Screen	4" 0.016"-slot PVC	10.0	41.0-51.0
Sump	4" PVC	5.4	51.0-56.4
Pump	Grundfos 10S05-9	-	37.5

HSB143D

The borehole was drilled by the mud rotary method from 0 to 30.0 ft. Drilling began 10/8/90. No grouting was done; pellets were added up to the surface. The pump was installed 1/10/91. The total depth of the borehole is 30.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	6.5	0-4.0
Screen	4" 0.016"-slot PVC	20.0	4.0-24.0
Sump	4" PVC	5.4	24.0-29.4
Pump	Grundfos 10S05-9	-	19.5

HSB146A

The original HSB 146A, installed in August 1990, collapsed at 39 ft after lithologies were logged and geophysical logging was conducted. The original well was abandoned by grouting on 9/28/90. The replacement borehole was drilled by the mud rotary method from 0 to 175.0 ft. Drilling began 9/26/90; grouting was completed 9/28/90; the pump was installed 1/4/91. The total depth of the borehole is 175.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	156.5	0-154.0
Screen	4" 0.016"-slot PVC	10.0	154.0-164.0
Sump	4" PVC	5.4	164.0-169.4
Pump	Grundfos 10S05-9	-	157.5

WELL CONSTRUCTION

HSB146C

The borehole was drilled by the mud rotary method from 0 to 105.0 ft. One Shelby tube sample was taken from 68.5 to 70.9 ft. Drilling began 8/27/90; grouting was completed 8/31/90; the pump was installed 1/4/91. The total depth of the borehole is 105.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	90.5	0-88.0
Screen	4" 0.016"-slot PVC	10.0	88.0-98.0
Sump cap	4" PVC	5.4	98.0-103.4
Pump	Grundfos 10S05-9	-	97.5

HSB146D

The borehole was drilled by the mud rotary method from 0 to 54.0 ft. Drilling began 8/23/90; grouting was completed 8/30/90; the pump was installed 1/4/91. The total depth of the borehole is 54.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	29.5	0-27.0
Screen	4" 0.016"-slot PVC	20.1	27.0-47.1
Sump cap	4" PVC	5.4	47.1-52.5
Pump	Grundfos 10S05-9	-	47.5

HSB150PC

The borehole was drilled by the mud rotary method from 0 to 114.0 ft and wash cuttings were sampled every 10 ft from 0 to 114.0 ft. Drilling began 11/19/91; grouting was completed 11/21/91. The total depth of the borehole is 114.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	62.3	0-59.8
Screen	2" 0.016"-slot PVC	50.1	59.8-109.9
Sump	2" PVC	3.1	109.9-113.0

HXB WELL SERIES

Ford Building Seepage Basin

Two water table wells were installed in the **HXB Series** in 1991 to monitor the Ford Building Seepage Basin. The drilling and sampling methods for the wells in the **HXB Series** are noted under each well. Lithologies were logged for well HXB 5D. Geophysical logging was conducted and lithologies were logged for well HSB 4D. No acceptance dates were given for these wells.

WELL CONSTRUCTION

HXB 4D

The borehole was drilled by the mud rotary method from 0 to 11.5 ft and drilled and sampled by continuous wireline coring from 11.5 to 80.0 ft. The borehole was reamed from 0 to 80.0 ft and backfilled from 80.0 to 75.0 ft. Drilling began 12/10/90; grouting was completed 12/12/90; the pump was installed 1/10/91. The total depth of the borehole is 80.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	52.0	0-49.5
Screen	4" 0.010"-slot PVC	20.0	49.5-69.5
Sump	4" PVC	5.5	69.5-75.0
Pump	Grundfos 10S05-9	-	67.5

HXB 5D

The borehole was drilled by the mud rotary method from 0 to 80.0 ft. Samples were taken by wash cuttings every 5 ft from 0 to 80.0 ft. Drilling began 12/6/90; grouting was completed 12/7/90; the pump was installed 1/15/91. The total depth of the borehole is 80.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	54.5	0-52.0
Screen	4" 0.010"-slot PVC	20.0	52.0-72.0
Sump	4" PVC	5.4	72.0-77.4
Pump	Grundfos 10S05-9	-	70.0

IDB WELL SERIES

Interim Waste Technology Site Characterization Wells, Site B

One well, a piezometer, was installed at the Interim Waste Technology Site B in conjunction with the BTP wells to be used for geologic characterization at Site B of the New Sanitary Landfill. Lithologies were logged. The well was accepted 3/12/91.

IDB 2CC

The borehole was drilled by the mud rotary method from 0 to 241.0 ft, except that drilling and sampling were done by conventional coring from 137.0 to 149.0 ft and from 160.6 to 170.6 ft and by pitcher barrel for Shelby tube from 149.0 to 154.0 ft. The borehole was reamed through those intervals. Drilling began 12/7/90; grouting was completed 12/18/90; no pump was installed. The total depth of the borehole is 241.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	230.5	0-228.0
Screen	2" 0.015"-slot PVC	10.0	228.0-238.0
Sump	2" PVC	0.3	238.0-238.3

WELL CONSTRUCTION

KRB WELL SERIES

K-Area Retention Basin

Four wells were installed in the **KRB Series** in 1991 to monitor the K-Area Retention Basin. These wells replace wells KRB 1, KRB 8, KRB 13, KRB 14, and KRB 15, which were ruined and abandoned in 1990 because of construction activities that caused the basin walls to be recontoured when the liner was inserted into the basin. The drilling and sampling methods for these wells are noted under each well. Geophysical logging was conducted and lithologies were logged for well KRB 16D. Geophysical logging was conducted for well KRB 18D. All of these wells were accepted by Westinghouse on 1/13/92.

KRB 16D

The borehole was drilled by the mud rotary method from 0 to 80.0 ft and sampled by taking wash cuttings every 10 ft from 0 to 80.0 ft. Drilling began 8/27/91; grouting was completed 8/29/91; the pump was installed 11/27/91. The total depth of the borehole is 80.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	57.5	0-55.0
Screen	4" 0.015"-slot PVC	20.0	55.0-75.0
Sump	4" PVC	5.4	75.0-80.4
Pump	Grundfos 10S05-9	-	78.0

KRB 17D

The borehole was drilled by the mud rotary method from 0 to 102.0 ft and sampled by taking wash cuttings every 10 ft from 0 to 100.0 ft. Drilling began 8/26/91; grouting was completed 8/29/91; the pump was installed 11/27/91. The total depth of the borehole is 102.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	77.8	0-75.3
Screen	4" 0.015"-slot PVC	20.0	75.3-95.3
Sump	4" PVC	5.4	95.3-100.7
Pump	Grundfos 10S05-9	-	94.0

KRB 18D

The borehole was drilled by the mud rotary method from 0 to 102.0 ft and sampled by taking wash cuttings every 5 ft from 0 to 100.0 ft. Drilling began 8/21/91; grouting was completed 8/29/91; the pump was installed 11/27/91.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	77.5	0-75.0
Screen	4" 0.015"-slot PVC	20.0	75.0-95.0
Sump	4" PVC	5.3	95.0-100.3
Pump	Grundfos 10S05-9	-	98.0

WELL CONSTRUCTION

KRB 19D

The borehole was drilled by the mud rotary method from 0 to 102.0 ft and sampled by taking wash cuttings every 5 ft from 0 to 100.0 ft. Drilling began 8/19/91; grouting was completed 8/23/91; the pump was installed 11/26/91. The total depth of the borehole is 102.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	75.5	0-73.0
Screen	4" 0.015"-slot PVC	20.0	73.0-93.0
Sump	4" PVC	5.3	93.0-98.3
Pump	Grundfos 10S05-9	-	98.0

LFW WELL SERIES

Sanitary Landfill

Twenty-six wells of the LFW Series were installed at the Sanitary Landfill to assess groundwater quality. The drilling and sampling methods for these wells are noted under each well. Lithologies were logged for wells LFW 44D, LFW 45D, LFW 46D, LFW 47C, LFW 47D, LFW 48C, LFW 48D, LFW 56D, and LFW 62C. Geophysical logging was conducted and lithologies were logged for wells LFW 43B, LFW 57B, LFW 59B, and LFW 62B. Acceptance dates were not given for any of these wells.

LFW 43B

The borehole was drilled by the mud rotary method from 0 to 115.0 ft. and by wireline coring from 115.0 to 125.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 115.0 ft and by continuous wireline coring from 115.0 to 125.0 ft. The well was backfilled from 125.0 to 111.6 ft. Drilling began 6/19/91; grouting was completed 6/21/91; the pump was installed 7/29/91. The total depth of the borehole is 125.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	103.1	0-100.6
Screen	4" 0.016"-slot PVC	10.0	100.6-110.6
Sump	4" PVC	2.6	110.6-113.2
Pump	Grundfos 10S05-9	-	96.1

LFW 43C

The borehole was drilled by the mud rotary method from 0 to 79.0 ft. Drilling began 6/24/91; grouting was completed 6/25/91; the pump was installed 7/29/91. The total depth of the borehole is 79.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	64.5	0-62.0
Screen	4" 0.016"-slot PVC	10.0	62.0-72.0
Sump	4" PVC	5.4	72.0-77.4
Pump	Grundfos 10S05-9	-	66.5

WELL CONSTRUCTION

LFW 43D

The borehole was drilled by the mud rotary method from 0 to 57.0 ft. Drilling began 6/21/91; grouting was completed 6/24/91; the pump was installed 7/12/91. The total depth of the borehole is 57.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	32.5	0-30.0
Screen	4" 0.016"-slot PVC	20.0	30.0-50.0
Sump	4" PVC	5.4	50.0-55.3
Pump	Grundfos 10S05-9	-	47.5

LFW 44D

The borehole was drilled by the mud rotary method from 0 to 35.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 35.0 ft. Drilling began 5/29/91; grouting was completed 5/29/91; the pump was installed 6/27/91. The total depth of the borehole is 35.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	11.5	0-9.0
Screen	4" 0.016"-slot PVC	19.8	9.0-28.8
Sump	4" PVC	5.9	28.8-34.7
Pump	Grundfos 10S05-9	-	26.8

LFW 45D

The borehole was drilled by the mud rotary method from 0 to 35.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 35.0 ft. Drilling began 5/13/91; grouting was completed 5/16/91; the pump was installed 6/27/91. The total depth of the borehole is 35.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	12.2	0-9.7
Screen	4" 0.016"-slot PVC	20.0	9.7-29.7
Sump	4" PVC	5.3	29.7-35.0
Pump	Grundfos 10S05-9	-	27.5

LFW 46D

The borehole was drilled by the mud rotary method from 0 to 32.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 30.0 ft. Drilling began 5/28/91; grouting was completed 5/29/91; the pump was installed 6/17/91. The total depth of the borehole is 32.0 ft from ground level.

WELL CONSTRUCTION

LFW 46D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	8.5	0-6.0
Screen	4" 0.016"-slot PVC	19.8	6.0-25.8
Sump	4" PVC	6.0	25.8-31.7
Pump	Grundfos 10S05-9	-	24.2

LFW 47C

The borehole was drilled by the mud rotary method from 0 to 61.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 30.0 to 60.0 ft. Drilling began 5/28/91; grouting was completed 5/29/91; the pump was installed 7/1/91. The total depth of the borehole is 61.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	46.0	0-43.5
Screen	4" 0.016"-slot PVC	10.1	43.5-53.6
Sump	4" PVC	5.9	53.6-59.5
Pump	Grundfos 10S05-9	-	47.5

LFW 47D

The borehole was drilled by the mud rotary method from 0 to 31.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 0 to 31.0 ft. Drilling began 5/23/91; the pump was installed 6/17/91. The total depth of the borehole is 31.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	7.5	0-5.0
Screen	4" 0.016"-slot PVC	19.8	5.0-24.8
Sump	4" PVC	5.9	24.8-30.7
Pump	Grundfos 10S05-9	-	23.2

LFW 48C

The borehole was drilled by the mud rotary method from 0 to 65.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 65.0 ft. Drilling began 5/23/91; grouting was completed 5/28/91; the pump was installed 6/25/91. The total depth of the borehole is 65.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	51.5	0-49.0
Screen	4" 0.016"-slot PVC	10.0	49.0-59.0
Sump	4" PVC	6.0	59.0-65.0
Pump	Grundfos 10S05-9	-	54.2

WELL CONSTRUCTION

LFW 48D

The borehole was drilled by the mud rotary method from 0 to 39.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 0 to 35.0 ft. Drilling began 5/22/91; grouting was completed 5/23/91; the pump was installed 6/17/91. The total depth of the borehole is 39.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	15.0	0-12.5
Screen	4" 0.015"-slot PVC	20.1	12.5-32.6
Sump	4" PVC	6.0	32.6-38.6
Pump	Grundfos 10S05-9	-	31.1

LFW 55C

The borehole was drilled by the mud rotary method from 0 to 66.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 65.0 ft. Drilling began 5/13/91; grouting was completed 5/14/91; the pump was installed 7/17/91. The total depth of the borehole is 66.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	52.5	0-50.0
Screen	4" 0.016"-slot PVC	10.0	50.0-60.0
Sump	4" PVC	5.4	60.0-65.4
Pump	Grundfos 10S05-9	-	55.0

LFW 55D

The borehole was drilled by the mud rotary method from 0 to 40.0 ft. Drilling began 5/13/91; grouting was completed 5/15/91; the pump was installed 6/18/91. The total depth of the borehole is 40.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	14.0	0-12.0
Screen	4" 0.016"-slot PVC	20.2	12.0-32.2
Sump	4" PVC	5.3	32.2-37.5
Pump	Grundfos 10S05-9	-	30.0

LFW 56D

The borehole was drilled by the mud rotary method from 0 to 30.5 ft. Sampling was conducted by taking wash cuttings every 5 ft from 0 to 30.0 ft. Drilling began 5/22/91; the pump was installed 6/18/91. The total depth of the borehole is 30.5 ft from ground level.

WELL CONSTRUCTION

LFW 56D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	6.6	0-4.5
Screen	4" 0.016"-slot PVC	20.1	4.5-24.6
Sump	4" PVC	5.9	24.6-30.5
Pump	Grundfos 10S05-9	-	23.0

LFW 57B

The borehole was drilled by the mud rotary method from 0 to 80.0 ft and by wireline coring from 80.0 to 105.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 60.0 to 80.0 ft and by continuous wireline coring from 80.0 to 105.0 ft. The borehole was reamed from 80.0 to 100.0 ft and backfilled from 105.0 to 98.5 ft. Drilling began 6/11/91; grouting was completed 6/11/91; the pump was installed 6/19/91. The total depth of the borehole is 105.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	87.5	0-85.0
Screen	4" 0.020"-slot PVC	10.0	85.0-95.0
Sump	4" PVC	3.3	95.0-98.3
Pump	Grundfos 10S05-9	-	83.0

LFW 57C

The borehole was drilled by the mud rotary method from 0 to 60.0 ft, and lithologies were logged. Sampling was conducted by taking wash cuttings every 5 ft from 40.0 to 60.0 ft. Drilling began 5/21/91; grouting was completed 5/21/91; the pump was installed 6/19/91. The total depth of the borehole is 61.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	47.5	0-45.0
Screen	4" 0.015"-slot PVC	10.1	45.0-55.1
Sump	4" PVC	5.9	55.1-61.0
Pump	Grundfos 10S05-9	-	43.0

LFW 57D

The borehole was drilled by the mud rotary method from 0 to 38.0 ft, and lithologies were logged. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 35.0 ft. Drilling began 5/21/91; grouting was completed 5/21/91; the pump was installed 6/18/91. The total depth of the borehole is 38.0 ft from ground level.

WELL CONSTRUCTION

LFW 57D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	15.0	0-12.5
Screen	4" 0.015"-slot PVC	19.8	12.5-32.3
Sump	4" PVC	5.5	32.3-37.8
Pump	Grundfos 10S05-9	-	30.3

LFW 58D

The borehole was drilled by the mud rotary method from 0 to 44.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 5.0 to 40.0 ft. Drilling began 5/20/91; grouting was completed 5/21/91; the pump was installed 6/18/91. The total depth of the borehole is 44.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	20.0	0-18.0
Screen	4" 0.015"-slot PVC	20.1	18.0-38.1
Sump	4" PVC	5.5	38.1-43.6
Pump	Grundfos 10S05-9	-	34.1

LFW 59B

The borehole was drilled by the mud rotary method from 0 to 90.0 ft and drilled and sampled by continuous wireline coring from 90.0 to 118.0 ft. Wash cuttings were taken every 5 ft from 5.0 to 90.0 ft. The borehole was reamed from 90.0 to 107.0 ft and backfilled from 118.0 to 96.0 ft. Drilling began 6/12/91; grouting was completed 6/13/91; the pump was installed 7/29/91. The total depth of the borehole is 118.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	92.5	0-90.0
Screen	4" 0.016"-slot PVC	10.0	90.0-100.0
Sump	4" PVC	5.5	100.0-105.5
Pump	Grundfos 10S05-9	-	84.5

LFW 59C

The borehole was drilled by the mud rotary method from 0 to 72.0 ft. Drilling began 6/17/91; grouting was completed 6/18/91; the pump was installed 7/29/91. The total depth of the borehole is 72.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	57.5	0-55.0
Screen	4" 0.016"-slot PVC	10.0	55.0-65.0
Sump	4" PVC	5.2	65.0-70.2
Pump	Grundfos 10S05-9	-	59.5

WELL CONSTRUCTION

LFW 59D

The borehole was drilled by the mud rotary method from 0 to 43.0 ft. Drilling began 6/17/91; grouting was completed 6/18/91; the pump was installed 7/12/91. The total depth of the borehole is 43.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	18.5	0-16.0
Screen	4" 0.016"-slot PVC	20.0	16.0-36.0
Sump	4" PVC	5.2	36.0-41.2
Pump	Grundfos 10S05-9	-	34.1

LFW 60D

The borehole was drilled by the mud rotary method from 0 to 38.0 ft. Drilling began 6/11/91; a bentonite seal was completed 6/18/91; the pump was installed 7/12/91. The total depth of the borehole is 38.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	13.9	0-11.4
Screen	4" 0.016"-slot PVC	20.0	11.4-31.4
Sump	4" PVC	10.1	31.4-41.5
Pump	Grundfos 10S05-9	-	29.5

LFW 61C

The borehole was drilled by the mud rotary method from 0 to 62.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 35.0 to 62.0 ft. Drilling began 5/16/91; grouting was completed 5/20/91; the pump was installed 7/12/91. The total depth of the borehole is 62.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	47.5	0-45.0
Screen	4" 0.015"-slot PVC	10.1	45.0-55.1
Sump	4" PVC	5.3	55.1-60.5
Pump	Grundfos 10S05-9	-	50.5

LFW 61D

The borehole was drilled by the mud rotary method from 0 to 42.0 ft. Sampling was conducted by taking wash cuttings every 5 ft from 0 to 35.0 ft. Drilling began 5/16/91; grouting was completed 5/20/91; the pump was installed 6/25/91. The total depth of the borehole is 42.0 ft from ground level.

WELL CONSTRUCTION

LFW 61D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	18.5	0-16.0
Screen	4" 0.015"-slot PVC	20.1	16.0-36.1
Sump	4" PVC	5.5	36.1-41.6
Pump	Grundfos 10S05-9	-	34.1

LFW 62B

The borehole was drilled by the mud rotary method from 0 to 90.0 ft and drilled and sampled by continuous wireline coring from 90.0 to 111.0 ft. Wash cuttings were taken every 5 ft from 0 to 90.0 ft. The well was backfilled from 111.0 to 93.9 ft. Drilling began 6/6/91; grouting was completed 6/11/91; the pump was installed 7/15/91. The total depth of the borehole is 111.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	92.5	0-90.0
Screen	4" 0.016"-slot PVC	10.0	90.0-99.9
Sump	4" PVC	3.4	99.9-103.3
Pump	Grundfos 10S05-9	-	87.5

LFW 62C

The borehole was drilled by the mud rotary method from 0 to 62.0 ft. Drilling began 6/11/91; grouting was completed 6/11/91; the pump was installed 7/15/91. The total depth of the borehole is 62.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	47.5	0-45.0
Screen	4" 0.016"-slot PVC	10.0	45.0-55.0
Sump	4" PVC	5.5	55.0-60.5
Pump	Grundfos 10S05-9	-	50.0

LFW 62D

The borehole was drilled by the mud rotary method from 0 to 42.0 ft. Drilling began 6/4/91; the pump was installed 6/25/91. The total depth of the borehole is 42.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	17.5	0-15.0
Screen	4" 0.016"-slot PVC	20.0	15.0-35.0
Sump	4" PVC	5.3	35.0-40.3
Pump	Grundfos 10S05-9	-	

WELL CONSTRUCTION

LWN WELL SERIES

Proposed New Sanitary Landfill, Site N

Nine piezometers were installed in 1991 for site characterization at Site N of the Proposed New Sanitary Landfill. There was no geophysical logging conducted or lithologies logged for these wells. Acceptance dates were not given for any of these wells.

LWN 1A

The borehole was drilled by the mud rotary method from 0 to 257.0 ft. Drilling began 10/17/91; grouting was completed 10/21/91. The total depth of the borehole is 257.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	237.5	0-235.0
Screen	2" PVC	10.0	235.0-245.0
Sump	2" PVC	5.2	245.0-250.2

LWN 1C

The borehole was drilled by the mud rotary method from 0 to 160.0 ft. Drilling began 10/21/91; grouting was completed 10/23/91. The total depth of the borehole is 160.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	143.5	0-141.0
Screen	2" PVC	10.0	141.0-151.0
Sump	2" PVC	5.2	151.0-156.2

LWN 1D

The borehole was drilled by the mud rotary method from 0 to 115.0 ft. Drilling began 10/23/91; grouting was completed 10/23/91. The total depth of the borehole is 115.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	87.5	0-85.0
Screen	2" PVC	20.0	85.0-105.0
Sump	2" PVC	5.2	105.0-110.2

LWN 2A

The borehole was drilled by the mud rotary method from 0 to 225 ft. Drilling began 10/24/91; grouting was completed 10/29/91.

WELL CONSTRUCTION

LWN 2A (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	209.5	0.2-207.0
Screen	2" PVC	10.0	207.0-217.0
Sump	2" PVC	5.1	217.0-222.1

LWN 2C

The borehole was drilled by the mud rotary method from 0 to 147.0 ft. Drilling began 10/29/91; grouting was completed 10/31/91.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	134.3	0-132.0
Screen	2" PVC	10.0	132.0-142.0
Sump	2" PVC	5.2	142.0-147.2

LWN 2D

The borehole was drilled by the mud rotary method from 0 to 72.0 ft. Drilling began 10/30/91; grouting was completed 11/1/91. The total depth of the borehole is 72.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	49.5	0-47.0
Screen	2" PVC	20.0	47.0-67.0
Sump	2" PVC	5.2	67.0-72.2

LWN 3A

The borehole was drilled by the mud rotary method from 0 to 243.0 ft. Sampling was done by the Shelby-tube method from 240.0 to 243.0 ft. Drilling began 11/1/91; grouting was completed 11/11/91. The total depth of the borehole is 243.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	224.4	0-222.9
Screen	2" PVC	10.1	222.9-233.0
Sump	2" PVC	6.0	233.0-239.0

LWN 3C

The borehole was drilled by the mud rotary method from 0 to 157.0 ft. Sampling was done by the Shelby-tube method from 150.0 to 152.0 ft and from 152.0 to 154.0 ft. Drilling began 11/7/91; grouting was completed 11/11/91. The total depth of the borehole is 157.0 ft from ground level.

WELL CONSTRUCTION

LWN 3C (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	142.5	0-140.0
Screen	2" PVC	10.0	140.0-150.0
Sump	2" PVC	5.6	150.0-155.6

LWN 3D

The borehole was drilled by the mud rotary method from 0 to 90.0 ft and then drilled and sampled by the Shelby-tube method from 90.0 to 92.0 ft. Drilling began 11/11/91; grouting was completed 11/12/91. The total depth of the borehole is 92.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	2" PVC	62.5	0-60.0
Screen	2" PVC	20.0	60.0-80.0
Sump	2" PVC	5.2	80.0-85.2

MSB WELL SERIES

M-Area Hazardous Waste Management Facility: Plume Definition Wells

Three plume definition wells of the **MSB Series** were installed to monitor the M-Area Hazardous Waste Management Facility. Geophysical logging was conducted and lithologies were logged for well MSB 83TA. Acceptance dates were not given for these wells.

MSB 83B

The well was drilled by the mud rotary method from 0 to 233.0 ft. Drilling began 12/12/90; grouting was completed 12/17/90; the pump was installed 1/23/91. The total depth of the borehole is 233.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	226.0	0-223.5
Screen	4" 0.016"-slot PVC	4.7	223.5-228.2
Sump	4" PVC	2.9	228.2-231.1
Pump	Grundfos 10S05-9	-	217.5

MSB 83D

The well was drilled by the auger method from 0 to 150.0 ft and by the mud rotary method from 0 to 160.0 ft. Drilling began 11/13/90; grouting was completed 11/16/90; the pump was installed 1/15/91. The total depth of the borehole is 160.0 ft from ground level.

WELL CONSTRUCTION

MSB 83D (cont.)

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	135.7	0-133.2
Screen	4" 0.010"-slot PVC	19.4	133.2-152.6
Sump	4" PVC	2.9	152.6-155.5
Pump	Grundfos 10S05-9	-	150.5

MSB 83TA

The well was drilled by the mud rotary method from 0 to 305.0 ft. It was sampled by continuous wireline coring from 200.0 to 303.0 ft. The borehole was backfilled from 303.0 to 229.0 ft for placement of surface casing and later was redrilled. The borehole was reamed from 0 to 250.5 ft before surface casing was set and from 250.5 to 305.0 ft after. Drilling began 11/20/90; grouting was completed 12/14/90; the pump was installed 1/23/91.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Surface Casing	12" Black CS	252.7	0-250.5
Casing	4" PVC	296.5	0-294.0
Screen	4" 0.016"-slot SS	5.5	294.0-299.5
Bottom cap	4" SS	2.0	299.5-301.5
Pump	Grundfos 10S05-9	-	277.5

NPM WELL SERIES

Potential New Production Reactor Site Characterization Wells

These wells were installed for a special geotechnical study. Complete well installation reports are not available.

NPM 19A

The pump was installed 11/4/91. The total depth of the borehole is 81.8 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	59.1	0-58.8
Screen	-	20.0	58.8-78.8
Sump	-	3.0	78.8-81.8
Pump	Grundfos 10S05-9	-	78.0

WELL CONSTRUCTION

NPM 19B

The pump was installed 11/4/91. The total depth of the borehole is 113.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	99.9	0.1–100.0
Screen	–	10.0	100.0–110.0
Sump	–	3.0	110.0–113.0
Pump	Grundfos 10S05-9	–	105.6

NPM 19C

The pump was installed 11/5/91. The total depth of the borehole is 137.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	125.4	0–125.0
Screen	–	10.0	125.0–135.0
Sump	–	2.5	135.0–137.5
Pump	Grundfos 10S05-9	–	129.6

NPM 19D

The pump was installed 11/5/91. The total depth of the borehole is 235.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	221.2	0–220.0
Screen	–	10.0	220.0–230.0
Sump	–	5.5	230.0–235.5
Pump	Grundfos 10S05-9	–	177.6

NPM 19E

The pump was installed 11/4/91. The total depth of the borehole is 300.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	287.8	0–285.0
Screen	–	10.0	285.0–295.0
Sump	–	5.5	295.0–300.5
Pump	Grundfos 10S05-9	–	177.5

WELL CONSTRUCTION

NPM 34A

The pump was installed 11/7/91. The total depth of the borehole is 44.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	31.9	0-30.5
Screen	-	10.0	30.5-40.5
Sump	-	3.5	40.5-44.0
Pump	Grundfos 10S05-9	-	40.5

NPM 34B

The pump was installed 11/7/91. The total depth of the borehole is 98.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	86.2	0-85.0
Screen	-	10.0	85.0-95.0
Sump	-	3.5	95.0-98.5
Pump	Grundfos 10S05-9	-	95.0

NPM 34C

The pump was installed 11/7/91. The total depth of the borehole is 140.0 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	130.2	0-129.0
Screen	-	10.0	129.0-139.0
Sump	-	1.0	139.0-140.0
Pump	Grundfos 10S05-9	-	139.0

NPM 34D

The pump was installed 11/7/91. The total depth of the borehole is 240.5 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	226.2	0-225.0
Screen	-	10.0	225.0-235.0
Sump	-	5.5	235.0-240.5
Pump	Grundfos 10S05-9	-	180.0

WELL CONSTRUCTION

NPM 34E

The pump was installed 11/7/91. The total depth of the borehole is 293.4 ft from ground level.

<u>Item</u>	<u>Type</u>	<u>Length (ft)</u>	<u>Placement (ft)</u>
Casing	4" PVC	279.6	0-278.0
Screen	-	10.0	278.0-288.0
Sump	-	5.4	288.0-293.4
Pump	Grundfos 10S05-9	-	180.0

Notes

5. WELL STABILIZATION

Because the water in a newly installed well may be influenced by grout, pH and specific conductance tests were performed for the following wells in 1991. Measurements were made on the first water withdrawn from the well and at one-well-volume intervals until stabilization. Wells were pumped unless otherwise noted.

AMB 4A

Date: 09/24/91

One well volume = 64.3 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.7	166	20.5	Light brown, weakly turbid
1	10.7	287	19.9	Light brown, weakly turbid
2	9.7	152	20.5	Clear
3	9.5	137	19.9	Clear
4	9.4	130	20.0	Clear

AMB 4B

Date: 09/24/91

One well volume = 48.0 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	133	20.7	Clear
1	5.6	50	19.8	Clear
2	5.5	47	19.8	Clear
3	5.5	45	19.9	Clear
4	5.5	45	20.0	Clear

AMB 4D

Date: 12/11/91

One well volume = 15.0 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.4	50	18.4	Weakly turbid, light brown
1	6.7	111	19.0	Strongly turbid, brown, surges
2	6.4	98	18.9	Strongly turbid, light brown, surges

WELL STABILIZATION

AMB 4D (cont.)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
3	6.2	87	18.7	Moderately turbid, light brown, surges
4	6.1	82	18.6	Moderately turbid, light brown, surges

AMB 7A

Date: 09/23/91

One well volume = 67.7 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	7.3	124	20.6	Clear
1	9.2	108	19.2	Hazy white
2	8.7	96	19.1	Clear
3	7.9	90	19.0	Clear
4	7.4	85	19.1	Clear
5	7.1	82	19.1	Clear
6	7.0	79	19.2	Clear

AMB 7B

Date: 09/23/91

One well volume = 47.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	6.2	85	20.3	Clear
1	5.3	36	19.4	Light brown, weakly turbid
2	5.3	35	19.2	Clear
3	5.3	35	19.0	Clear
4	5.3	35	19.2	Clear

AMB 10A

Date: 09/23/91

One well volume = 73.1 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	12.1	2,390	19.8	Clear
1	11.2	1,555	19.3	Light brown, weakly turbid, dry after 108 gal

WELL STABILIZATION

AMB 10A (cont.)

Date: 09/24/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.2	139	19.0	Very light brown, weakly turbid

AMB 10B

Date: 09/23/91

One well volume = 48.6 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.1	618	19.9	Clear
1	11.1	403	19.7	Clear
2	9.9	196	19.8	Clear
3	9.7	180	19.6	Clear
4	9.2	161	19.7	Clear
5	8.2	149	19.7	Clear
6	7.7	143	19.6	Clear
7	7.8	145	19.6	Clear

AMB 11B

Date: 09/24/91

One well volume = 33.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.5	554	21.1	Clear
1	10.8	352	18.1	Brown, moderately to strongly turbid
2	7.8	177	18.3	Brown, moderately turbid
3	6.7	152	18.4	Brown, moderately turbid
4	6.7	141	18.4	Light brown, moderately turbid

AMB 13AR

Date: 09/23/91

One well volume = 77.8 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.8	1,048	20.4	Clear
1	11.6	884	19.1	Brown, strongly turbid
2	7.3	132	19.5	Light gray-white, weakly turbid
3	6.7	110	19.4	Very light hazy white
4	6.2	71	19.6	Clear
5	6.3	78	19.7	Very light hazy white

WELL STABILIZATION

ASB 2C

Date: 09/19/91

One well volume = 33.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	137	19.7	Very light brown, weakly turbid
1	6.2	116	19.2	Very light brown, weakly turbid
2	6.1	91	19.1	Very light brown, weakly turbid
3	5.9	68	19.1	Clear
4	5.8	61	19.3	Clear

ASB 3C

Date: 02/12/91

One well volume = 32.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.4	2,980	16.3	Clear
1	12.2	2,020	17.9	Moderately turbid, orange-brown
2	12.1	1,410	18.0	Moderately turbid, medium brown
3	11.6	686	18.4	Moderately turbid, medium brown
4	11.0	325	18.4	Moderately turbid, light brown
5	10.2	215	18.5	Moderately turbid, light brown
6	8.6	169	18.4	Moderately turbid, light brown
7	7.1	148	18.9	Turbid, light brown
8	6.9	136	18.8	Turbid, light brown
9	6.7	129	18.8	Turbid, light brown
10	6.7	121	18.9	Turbid, light brown

ASB 6C

Date: 03/18/91

One well volume = 32.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.9	213	19.9	Clear, pieces of plastic
1	5.9	74	20.0	Moderately turbid, light brown
2	5.6	60	20.2	Weakly turbid, light brown, surges
3	5.5	55	20.1	Very weakly turbid, light brown
4	5.5	51	19.9	Clear

WELL STABILIZATION

ASB 6TA

Date: 03/20/91 – 13:13

One well volume = 117.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.0	442	21.6	Clear, dry after 34 gal

Date: 03/20/91 – 17:45

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	11.1	527	20.2

ASB 10C

Date: 02/12/91

One well volume = 31.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	255	15.4	Clear
1	6.5	102	15.1	Clear
2	6.5	98	17.1	Clear
3	6.6	105	17.8	Clear
4	6.6	104	17.2	Clear

BGO 8AR

Date: 07/03/91

One well volume = 42.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.8	207	21.2	Clear
1	9.1	228	20.3	Very light brown, very weakly turbid
2	8.1	226	20.8	Clear
3	7.7	229	20.7	Clear
4	7.7	232	21.0	Clear

BGO 10AR

Date: 08/08/91

One well volume = 41.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.7	1,795	20.7	Clear
1	11.2	663	20.0	Clear
2	9.1	255	20.3	Clear

WELL STABILIZATION

BGO 10AR (cont.)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
3	8.4	254	20.5	Clear
4	8.1	254	20.9	Clear
5	7.9	257	20.5	Clear

BGO 12AR

Date: 08/08/91

One well volume = 39.1 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	11.7	1,778	21.1	Clear
1	11.5	1,226	20.2	Clear
2	11.2	645	20.5	Clear
3	10.9	428	20.5	Clear
4	10.6	320	20.5	Clear
5	10.4	279	20.4	Clear
6	10.0	247	20.6	Clear
7	9.9	236	20.4	Clear

BGO 12CR

Date: 08/08/91

One well volume = 51.3 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	11.3	793	21.2	Clear, dry after 42 gal

Date: 08/09/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	10.9	447	21.3	Clear, aerated

BGO 13DR

Date: 11/12/91

One well volume = 14.9 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	6.9	200	17.9	Weakly turbid, very light brown, dry after 8.6 gal

WELL STABILIZATION

BGO 13DR (cont.)

Date: 11/13/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	6.8	117	16.5	Weakly turbid, light brown

BGO 14AR

Date: 08/08/91

One well volume = 41.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	12.1	3,140	22.9	Clear
1	12.0	2,060	20.7	Clear
2	11.8	1,418	20.5	Clear
3	11.6	1,124	20.3	Clear
4	11.6	918	20.4	Clear
5	11.5	822	20.6	Clear
6	11.4	717	20.3	Clear
7	11.3	628	20.2	Clear
8	11.2	555	20.1	Clear
9	11.2	526	20.2	Clear

BGO 14CR

Date: 08/08/91

One well volume = 22.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	8.1	152	21.5	Clear, dry after 15.3 gal

Date: 08/09/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	7.3	134	20.7	Clear

BGO 14DR

Date: 07/03/91

One well volume = 33.2 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	7.0	198	21.9	Clear
1	6.1	81	22.0	Light brown, moderately turbid
2	6.1	83	22.2	Light brown, weakly turbid

WELL STABILIZATION

BGO 14DR (cont.)

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
3	6.0	70	21.7	Light brown, moderately turbid
4	6.0	68	22.3	Very light brown, weakly turbid

BGO 29C

Date: 12/14/91

One well volume = 31.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.0	122	19.1	Clear
1	5.6	39	19.2	Strongly turbid, brown, dry after 47.5 gal

Date: 12/15/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	5.4	33	17.2

BGO 29D

Date: 12/14/91

One well volume = 12.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	119	20.2	Weakly turbid, light brown
1	5.5	72	19.5	Moderately turbid, light brown, dry after 18 gal

Date: 12/15/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.6	64	17.0	Weakly turbid, light brown

BGO 40D

Date: 08/08/91

One well volume = 4.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.9	466	22.3	Light brown, moderately turbid, dry after 1 gal

WELL STABILIZATION

BGO 40D (cont.)

Date: 08/09/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.8	514	21.8	Clear, aerated

BGO 41A

Date: 11/06/91

One well volume = 36.9 gal

<u>Well</u> <u>Vol.</u>	<u>Ph</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.7	4,160	17.8	Very weakly turbid, light brown, dry after 19 gal

Date: 11/07/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.6	4,240	16.7	Clear

BGO 42C

Date: 11/06/91

One well volume = 25.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	121	18.4	Clear, dry after 16.7 gal

Date: 11/07/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.2	63	16.4	Clear

BGO 43A

Date: 11/04/91

One well volume = 34.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.6	3,780	17.3	Clear, dry after 19.3 gal

WELL STABILIZATION

BGO 43A (cont.)

Date: 11/05/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.8	4,380	16.8	Clear

BGO 43AA

Date: 11/04/91

One well volume = 62.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.5	6,750	17.7	Clear
1	12.3	4,020	18.5	Clear
2	12.0	1,950	18.8	Clear
3	11.6	930	19.0	Clear
4	11.4	589	18.5	Clear
5	11.1	423	18.6	Clear
6	10.9	331	18.8	Clear
7	10.7	277	19.0	Clear
8	10.4	244	18.9	Clear
9	10.3	227	19.1	Clear

BGO 43D

Date: 11/04/91

One well volume = 23.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.9	219	17.5	Weakly turbid, light brown
1	7.2	102	18.3	Weakly turbid, light brown
2	6.7	90	18.2	Clear
3	6.3	84	18.4	Clear
4	6.2	82	18.3	Clear

BGO 45A

Date: 07/03/91

One well volume = 28.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.7	179	21.9	Clear
1	8.8	191	20.6	Clear
2	7.7	193	20.1	Clear

WELL STABILIZATION

BGO 45A (cont.)

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
3	7.5	194	20.6	Clear
4	7.5	194	21.0	Clear

BGO 45B

Date: 07/03/91

One well volume = 54.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.8	2,040	20.9	Clear, dry after 39 gal

Date: 07/04/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.2	168	23.0	Clear

BGO 45C

Date: 07/03/91

One well volume = 21.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.8	52	23.0	Clear, dry after 17 gal

Date: 07/04/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.4	33	20.9	Light brown, weakly turbid

WELL STABILIZATION

BGO 45D

Date: 07/03/91

One well volume = 12.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.8	43	23.2	Clear
1	5.3	27	21.0	Clear
2	5.2	26	21.0	Clear
3	5.2	26	21.2	Clear
4	5.2	26	21.4	Clear

BGO 46B

Date: 12/14/91

One well volume = 51.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.8	229	19.5	Clear
1	6.8	116	19.6	Clear
2	6.4	65	19.7	Clear, surges, ~ 5 gpm
3	6.3	64	19.8	Clear, surges, ~ 5 gpm
4	6.3	64	19.7	Clear, surges, ~ 5 gpm

BGO 46C

Date: 12/14/91

One well volume = 28.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.7	128	19.2	Weakly turbid, light brown
1	8.7	119	19.5	Moderately turbid, orange-brown, dry after 32 gal

Date: 12/15/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	74	17.2	Clear

WELL STABILIZATION

BGO 46D

Date: 12/14/91

One well volume = 16.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.2	103	19.7	Weakly turbid, light brown
1	5.3	46	19.6	Weakly turbid, light brown
2	5.1	40	19.7	Weakly turbid, light brown
3	5.0	38	19.6	Weakly turbid, light brown
4	5.0	36	19.7	Very weakly turbid, light brown

BGO 47A

Date: 11/11/91

One well volume = 50.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.8	4,360	17.6	Clear
1	12.0	920	18.7	Clear
2	11.4	409	19.0	Clear
3	10.9	285	18.6	Clear
4	10.3	221	18.6	Clear
5	9.4	183	18.5	Clear
6	8.4	172	18.8	Clear
7	8.0	167	18.4	Clear
8	7.6	161	18.7	Clear
9	6.7	154	18.0	Clear
10	6.9	153	18.7	Clear

BGO 47C

Date: 11/11/91

One well volume = 30.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.8	164	19.2	Clear
1	7.6	60	19.2	Clear
2	6.5	47	19.1	Clear
3	6.0	36	19.5	Clear
4	5.9	34	19.5	Clear

WELL STABILIZATION

BGO 47D

Date: 11/04/91

One well volume = 16.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.7	58	18.2	Weakly turbid, very light brown
1	5.3	47	18.8	Very weakly turbid, very light brown
2	5.4	43	19.0	Clear
3	5.4	42	19.1	Clear
4	5.4	41	19.0	Clear

BGO 48C

Date: 11/05/91

One well volume = 31.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.8	43	18.2	Clear
1	6.1	50	19.2	Very weakly turbid, very light brown
2	5.9	43	19.3	Clear
3	5.8	40	18.8	Clear
4	5.6	39	19.2	Clear
5	5.7	39	19.3	Clear
6	5.6	38	19.1	Clear

BGO 48D

Date: 11/05/91

One well volume = 17.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.2	41	19.2	Clear
1	4.8	46	19.6	Clear
2	4.7	52	19.4	Clear
3	4.6	58	19.6	Clear
4	4.8	56	19.7	Clear
5	4.7	58	19.5	Clear

WELL STABILIZATION

BGO 49A

Date: 11/05/91

One well volume = 59.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.4	3,850	16.5	Clear
1	12.1	1,920	17.3	Clear
2	11.7	1,008	17.6	Clear
3	11.4	596	18.4	Clear
4	11.2	397	18.0	Clear
5	10.8	298	18.2	Clear
6	10.6	250	18.2	Clear
7	10.4	223	18.5	Clear
8	10.2	214	18.6	Clear

BGO 49C

Date: 11/05/91

One well volume = 41.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.6	570	17.3	Clear
1	11.6	550	18.1	Clear
2	10.4	145	18.2	Clear, surges
3	10.0	123	18.4	Clear
4	9.5	108	18.0	Clear
5	9.0	102	17.6	Clear
6	8.3	97	18.3	Clear
7	7.9	93	18.3	Clear
8	7.6	90	18.1	Clear
9	7.2	86	18.3	Clear
10	7.2	85	18.1	Clear

BGO 49D

Date: 11/05/91

One well volume = 10.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.8	36	17.0	Clear
1	5.6	29	17.0	Clear, dry after 16.3 gal

WELL STABILIZATION

BGO 49D (cont.)

Date: 11/06/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.4	28	16.4	Very weakly turbid, very light brown

BGO 50A

Date: 12/14/91

One well volume = 46.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.7	906	20.0	Clear
1	10.7	289	20.2	Moderately turbid, light brown, dry after 73 gal

Date: 12/15/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.5	349	17.0	Clear

BGO 50C

Date: 12/14/91

One well volume = 37.8

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	107	19.6	Very weakly turbid, light brown
1	6.8	89	19.5	Moderately turbid, light brown, dry after 51.5 gal

Date: 12/15/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	64	17.0	Clear

WELL STABILIZATION

BGO 50D

Date: 12/14/91

One well volume = 12.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.6	137	19.5	Weakly turbid, light brown
1	9.8	162	19.5	Strongly turbid, orange-brown
2	6.5	110	19.7	Moderately turbid, light brown, surges
3	6.2	89	19.7	Weakly turbid, light brown, surges
4	6.3	95	19.9	Very weakly turbid, light brown

BGX 1A

Date: 09/19/91 – 12:21

One well volume = 29.7

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.4	5,970	24.1	Foamy white, dry after 10 gal

Date: 09/19/91 – 15:30

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	5,030	25.5	Aerated

BGX 1C

Date: 08/07/91

One well volume = 27.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.2	670	20.9	Clear, dry after 14 gal

Date: 08/08/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.3	390	19.8	Clear

WELL STABILIZATION

BGX 1D

Date: 08/07/91

One well volume = 9.9 gallons

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	167	20.4	Light brown, moderately turbid, dry after 1.6 gal

Date: 08/08/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	159	21.9	Brown, turbidity varied, aerated

BGX 2B

Date: 06/10/91

One well volume = 50.3 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.6	179	19.9	Clear, dry after 47.7 gal

Date: 06/11/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.7	182	18.9	Light brown, moderately turbid, aerated

BGX 2D

Date: 06/10/91

One well volume = 23.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	44	19.6	Clear, dry after 19.2 gal

Date: 06/11/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.7	35	19.1	Clear

WELL STABILIZATION

BGX 3D

Date: 08/07/91

One well volume = 9.7 gallons

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	166	20.5	Clear
1	5.5	50	19.7	Light brown, weakly turbid, surges
2	5.4	47	19.9	Clear, surges
3	5.4	42	19.3	Clear, surges
4	5.4	39	19.5	Clear, surges

BGX 4A

Date: 06/10/91

One well volume = 32.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.9	164	21.5	Clear
1	8.9	275	23.5	Clear
2	7.6	282	22.3	Clear
3	7.3	282	21.8	Clear
4	7.4	279	22.2	Clear

BGX 4C

Date: 06/10/91

One well volume = 29.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	130	21.2	Clear
1	6.5	122	20.5	Clear
2	6.8	141	21.2	Clear
3	6.9	142	20.9	Clear
4	6.7	131	21.3	Clear

BGX 4D

Date: 06/10/91

One well volume = 8.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	62	20.0	Clear
1	5.9	48	19.9	Clear

WELL STABILIZATION

BGX 4D (cont.)

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
2	6.1	49	20.0	Clear
3	5.9	42	20.1	Clear
4	5.9	43	20.0	Clear

BGX 5D

Date: 06/10/91

One well volume = 10.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.0	72	31.1	Very light brown, very weakly turbid
1	5.6	77	21.8	Light brown, weakly turbid
2	5.5	64	21.8	Light brown, weakly turbid
3	5.5	64	21.9	Very light brown, very weakly turbid
4	5.5	62	21.8	Clear

BGX 6D

Date: 08/07/91

One well volume = 11.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	212	21.3	Clear
1	6.1	96	19.4	Light brown, moderately turbid
2	6.1	82	19.2	Light brown, moderately turbid, surges
3	6.3	81	19.4	Clear
4	6.3	81	19.6	Clear

BGX 7D

Date: 11/11/91

One well volume = 10.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	112	16.9	Clear
1	5.4	25	18.0	Clear
2	5.2	25	18.3	Clear
3	5.4	25	18.4	Clear
4	5.3	25	18.4	Clear

WELL STABILIZATION

BGX 8D

Date: 08/07/91

One well volume = 16.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	187	20.3	Clear
1	6.1	69	19.4	Clear
2	5.9	51	19.3	Clear
3	5.8	48	19.4	Clear
4	5.7	48	19.6	Clear

BGX 8D

Date: 11/06/91

One well volume = 16.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	93	18.4	Clear
1	6.4	67	18.2	Clear
2	6.2	48	17.7	Clear
3	5.8	42	17.8	Clear
4	5.8	40	17.7	Clear

BGX 9D

Date: 06/10/91

One well volume = 10.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.6	32	22.1	Clear
1	5.5	30	21.3	Clear
2	5.0	26	20.0	Medium brown, moderately turbid
3	5.4	27	20.9	Very light brown, very weakly turbid
4	5.5	28	20.5	Clear

BGX 10D

Date: 06/10/91

One well volume = 7.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	43	23.3	Medium brown, moderately turbid, dry after 7 gal

WELL STABILIZATION

BGX 10D (cont.)

Date: 06/11/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.6	32	18.9	Light brown, weakly turbid, aerated

BGX 12C

Date: 06/10/91

One well volume = 40.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	139	23.5	Clear
1	6.0	112	21.5	Clear, surges
2	5.5	53	22.2	Clear, surges
3	5.5	50	23.2	Clear, surges
4	5.4	40	21.3	Clear, surges
5	5.5	44	20.9	Clear, surges

BGX 12D

Date: 06/10/91

One well volume = 11.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.6	30	21.5	Clear, aerated, dry after 7 gal

Date: 06/11/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.4	25	20.3	Very light brown, turbidity varied

FSB 94DR

Date: 02/24/91

One well volume = 16.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	3.5	2,350	17.1	Moderately turbid, light brown
1	3.0	2,550	19.0	Weakly turbid, light brown
2	2.9	2,740	19.0	Clear

WELL STABILIZATION

FSB 94DR (cont.)

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
3	2.9	2,730	18.8	Very weakly turbid, light brown
4	2.9	2,730	19.2	Clear

FSB 95CR

Date: 02/24/91

One well volume = 35.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.6	1,666	17.7	Weakly turbid; light brown
1	10.7	1,420	18.7	Clear
2	6.8	1,403	19.5	Clear
3	5.3	1,383	19.4	Clear
4	4.8	1,405	19.2	Clear, surges
5	4.7	1,419	19.3	Clear, surges

FSB 95DR

Date: 02/24/91

One well volume = 14.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.0	2,000	18.7	Weakly turbid, light brown
1	3.4	2,710	19.3	Weakly turbid, light brown, surges
2	3.3	2,760	19.7	Clear, surges
3	3.3	2,810	19.5	Clear, surges
4	3.3	2,810	19.7	Clear, surges

FSB 96AR

Date: 02/24/91

One well volume = 48.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.8	169	19.2	Weakly turbid; light brown
1	7.2	176	19.5	Clear
2	6.9	174	19.3	Clear
3	6.9	173	19.3	Clear
4	6.9	173	19.2	Clear

WELL STABILIZATION

FSB 105DR

Date: 02/24/91

One well volume = 13.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.0	1,562	18.1	Moderately turbid, orange-brown
1	3.9	1,691	18.7	Moderately turbid, light orange-brown
2	3.5	2,690	18.8	Weakly turbid, light brown, surges
3	3.4	2,840	19.0	Clear, surges
4	3.3	2,890	18.9	Clear, surges

FSB 106D

Date: 02/06/91

One well volume = 1.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.8	163	16.4	Weakly turbid, light brown, dry after 0.7 gal

Date: 02/07/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	138	16.8	Turbid, brown

FSB 112A

Date: 02/06/91

One well volume = 48.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.2	214	18.0	Clear
1	9.4	186	18.8	Weakly turbid, light brown
2	8.7	168	18.9	Clear
3	8.5	163	18.9	Clear, surges slightly
4	8.9	170	18.9	Weakly turbid, light brown
5	7.4	155	18.9	Clear
6	7.3	151	18.9	Clear

WELL STABILIZATION

FSB 112C

Date: 02/06/91

One well volume = 47.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.9	3,640	18.2	Very strongly turbid (soupy), brown
1	10.8	1,269	18.6	Strongly turbid, brown, flocculent, surges
2	5.7	1,357	19.0	Weakly turbid, light brown, surges, flowmeter stopped working
3	5.7	1,374	19.3	Weakly turbid, light brown, ~ 3 gpm
4	5.6	1,382	19.5	Very weakly turbid, light brown

FSB 112D

Date: 02/06/91

One well volume = 11.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.0	1,485	17.5	Weakly turbid, light brown
1	3.7	1,459	18.2	Moderately turbid, orange-brown
2	3.6	1,916	18.3	Strongly turbid, light orange
3	3.6	1,879	18.4	Moderately turbid, light brown
4	3.6	1,837	18.4	Weakly turbid, light brown
5	3.6	1,843	18.4	Clear

FSB 113A

Date: 02/10/91

One well volume = 50.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	3,690	19.0	Clear, ~ 3.5 gpm
1	12.0	2,870	20.5	Clear, ~ 2.5 gpm
2	11.9	2,260	20.4	Clear, ~ 2.5 gpm
3	11.9	1,974	20.7	Clear, ~ 2.5 gpm
4	11.8	1,741	20.8	Clear, ~ 2.5 gpm

WELL STABILIZATION

FSB 113C

Date: 02/10/91

One well volume = 32.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.1	2,790	19.2	Clear, dry after 32 gal

Date: 02/11/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.1	1,081	17.8	Clear

FSB 113D

Date: 02/10/91

One well volume = 12.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	85	19.3	Clear
1	4.8	35	19.4	Moderately turbid, brown
2	4.7	28	19.4	Weakly turbid, light brown
3	4.7	27	19.6	Weakly turbid, light brown
4	4.7	27	19.5	Weakly turbid, light brown

FSB 114A

Date: 02/05/91

One well volume = 39.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.7	4,280	20.4	Clear
1	12.3	1,747	20.4	Weakly turbid, light brown, surges
2	11.5	491	20.0	Weakly turbid, light brown, surges
3	11.1	333	19.9	Very weakly turbid, light brown, ~3.7 gpm
4	10.8	262	19.9	Weakly turbid, light brown, surges
5	10.5	228	19.8	Weakly turbid, light brown, surges
6	10.3	216	19.9	Weakly turbid, light brown, surges
7	10.1	206	19.8	Weakly turbid, light brown, surges
8	10.0	200	19.8	Weakly turbid, light brown, surges

WELL STABILIZATION

FSB 114C

Date: 02/05/91

One well volume = 35.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	6.4	125	19.4	Weakly turbid, light brown
1	9.2	145	19.5	Weakly turbid, light brown
2	5.7	67	19.8	Clear
3	5.6	62	19.8	Clear, ~ 3 gpm
4	5.5	59	19.7	Clear

FSB 114D

Date: 02/05/91

One well volume = 11.8 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	5.2	50	19.4	Weakly turbid, light brown
1	5.3	51	19.2	Very weakly turbid, light brown
2	5.0	50	19.1	Clear
3	5.0	49	19.3	Very weakly turbid, light brown
4	5.0	49	19.3	Clear

FSB 115C

Date: 02/11/91 – 14:47

One well volume = 14.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	7.3	92	17.9	Strongly turbid, brown
1	7.3	84	17.9	Strongly turbid, brown, surges, ~ 1.1-gpm pump rate at 1st well volume, dry after 25 gal

Date: 02/11/91 – 15:35

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	6.3	54	17.7	Weakly turbid, light brown

WELL STABILIZATION

FSB 115D

Date: 02/11/91

One well volume = 6.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.5	28	15.4	Very weakly turbid, light brown
1	5.0	19	17.3	Weakly turbid, light brown
2	4.9	20	17.4	Moderately turbid, light brown, surges
3	5.0	19	17.5	Moderately turbid, light brown, surges
4	5.0	19	17.5	Moderately turbid, light brown, surges

FSB 116C

Date: 02/10/91

One well volume = 19.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	35	18.1	Weakly turbid, light brown
1	5.3	30	18.0	Very weakly turbid, light brown
2	5.1	28	18.8	Clear, small amount of fine sand, surges
3	5.2	27	18.9	Clear, small amount of fine sand, surges
4	5.1	27	19.0	Clear, small amount of fine sand, surges

FSB 116D

Date: 02/10/91

One well volume = 4.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.5	31	16.5	Weakly turbid, light brown, dry after 2.4 gal

Date: 02/11/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.1	93	16.4	Strongly turbid, reddish-brown

WELL STABILIZATION

FSB 117D

Date: 02/06/91

One well volume = 10.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	3.5	1,092	18.0	Clear
1	3.6	1,124	18.5	Moderately turbid, brown
2	3.4	1,402	18.5	Weakly turbid, light brown
3	3.4	1,399	18.6	Very weakly turbid, light brown
4	3.4	1,409	18.7	Clear

FSB 118D

Date: 02/10/91

One well volume = 13.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.9	109	18.6	Clear
1	10.3	172	18.7	Moderately turbid, light brown
2	6.0	81	18.6	Weakly turbid, light brown
3	5.9	69	18.6	Very weakly turbid, light brown
4	5.7	60	18.6	Clear, surges
5	5.7	59	18.7	Weakly turbid, light brown, surges

FSB 119D

Date: 02/05/91

One well volume = 8.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	3.6	1,485	19.5	Very strongly turbid, orange
1	3.5	1,116	19.5	Very strongly turbid, orange, surges
2	3.2	1,392	21.0	Very strongly turbid, orange, surges, >1 gpm
3	3.1	1,348	22.0	Strongly turbid, orange, ~0.8 gpm
4	3.1	1,369	22.6	Strongly turbid, orange, >0.7 gpm

WELL STABILIZATION

FSB 120A

Date: 02/07/91

One well volume = 31.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.5	4,420	19.5	Clear
1	12.3	3,250	20.1	Clear
2	11.9	1,460	20.3	Clear, 4.5 gpm
3	11.7	875	20.1	Clear
4	11.6	649	20.4	Clear
5	11.4	528	20.7	Clear
6	11.3	434	21.0	Clear
7	11.2	368	20.7	Clear
8	11.0	321	21.0	Clear
9	10.9	279	20.9	Clear
10	10.8	246	20.4	Clear
11	10.6	221	20.4	Clear
12	10.5	212	20.5	Clear

FSB 120C

Date: 02/06/91

One well volume = 35.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.1	721	17.7	Clear
1	9.7	627	18.8	Very weakly turbid, light brown, 4 gpm
2	6.2	512	19.0	Clear
3	5.8	463	19.1	Clear
4	5.5	443	19.3	Clear
5	5.5	433	19.2	Clear

FSB 120D

Date: 02/06/91

One well volume = 7.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	176	15.9	Weakly turbid, light brown, dry after 7.4 gal

WELL STABILIZATION

FSB 120D (cont.)

Date: 02/07/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.1	197	18.9	Weakly turbid, light brown

FSB 121C

Date: 02/07/91

One well volume = 36.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.6	131	18.5	Clear
1	6.1	59	19.4	Clear, 3 gpm
2	5.6	44	19.8	Clear, 3 gpm
3	5.5	37	19.8	Clear, 3 gpm
4	5.4	35	19.6	Clear, 3 gpm

FSB 122C

Date: 02/06/91

One well volume = 26.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.7	654	18.0	Very weakly turbid, light brown
1	5.8	637	18.0	Weakly turbid, light brown
2	4.6	681	18.3	Weakly turbid, light brown, surges
3	4.7	670	18.3	Very weakly turbid, light brown, surges
4	4.6	662	18.3	Very weakly turbid, light brown, surges

FSB 122D

Date: 02/06/91

One well volume = 11.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	94	17.5	Clear
1	5.8	52	17.8	Weakly turbid, light brown
2	5.4	63	18.3	Weakly turbid, light brown
3	5.6	68	18.2	Very weakly turbid, light brown
4	5.5	74	18.3	Clear

WELL STABILIZATION

FSB 123C

Date: 02/10/91

One well volume = 36.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.4	558	17.1	Clear
1	6.4	121	18.0	Weakly turbid, light brown
2	6.0	94	18.1	Clear
3	5.9	87	18.2	Clear
4	5.8	84	18.2	Clear

FSB 123D

Date: 02/10/91

One well volume = 12.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.4	44	17.5	Clear
1	4.8	43	18.0	Clear
2	4.8	42	18.2	Clear
3	4.8	42	18.3	Clear
4	4.8	42	18.4	Clear

HMD 1D

Date: 03/13/91

One well volume = 7.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	186	15.5	Moderately turbid, light brown, dry after 4.5 gal

Date: 03/14/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.4	143	15.9	Moderately turbid, light brown

WELL STABILIZATION

HMD 2D

Date: 03/13/91

One well volume = 7.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	119	18.1	Weakly turbid, light brown, particles of vegetation
1	5.9	75	18.4	Moderately turbid, light brown
2	5.8	73	18.5	Weakly turbid, light brown
3	5.8	74	18.6	Weakly turbid, light brown
4	5.8	74	18.6	Very weakly turbid, light brown

HMD 3D

Date: 03/13/91

One well volume = 9.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	106	16.3	Weakly turbid, light brown
1	6.0	70	17.8	Moderately turbid, light brown
2	5.8	57	18.3	Strongly turbid, brown, surges
3	5.7	55	18.5	Moderately turbid, light brown, surges
4	5.6	52	18.5	Moderately turbid, light brown, surges

HMD 4D

Date: 03/13/91

One well volume = 8.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	114	16.1	Very weakly turbid, light brown
1	6.1	56	18.2	Strongly turbid, orange-brown, dry after 11 gal

Date: 03/14/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.4	48	18.6	Moderately turbid, light brown

WELL STABILIZATION

HSB 140A

Date: 03/04/91

One well volume = 62.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.8	624	17.6	Clear
1	9.9	231	17.4	Clear
2	9.1	207	18.9	Clear
3	8.3	198	18.8	Clear
4	7.8	194	18.1	Clear
5	7.7	191	18.4	Clear

HSB 140C

Date: 03/04/91

One well volume = 29.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.4	125	17.4	Clear
1	6.9	65	17.2	Clear, surges
2	6.2	33	17.9	Clear
3	6.0	32	16.7	Clear
4	6.0	34	16.3	Clear

HSB 140D

Date: 03/04/91

One well volume = 15.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.5	26	15.7	Clear
1	5.1	21	15.8	Clear
2	5.0	21	15.5	Clear
3	5.1	21	17.1	Clear
4	5.1	20	17.1	Clear

WELL STABILIZATION

HSB 141A

Date: 03/05/91

One well volume = 61.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.0	2,410	15.6	Clear
1	11.9	2,230	17.1	Clear
2	11.8	1,741	18.2	Clear
3	11.7	1,457	18.8	Clear
4	11.6	1,316	18.0	Clear
5	11.6	1,165	18.5	Clear
6	11.6	1,067	19.0	Clear
7	11.5	965	18.8	Clear
8	11.6	872	18.7	Clear
9	11.5	788	18.7	Clear
10	11.4	714	18.9	Clear

HSB 141C

Date: 03/05/91

One well volume = 49.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	3,940	16.3	Clear, dry after 41 gal

Date: 03/06/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.6	3,600	17.1	Turbidity varied, brown to dark brown, aerated

HSB 141D

Date: 03/05/91

One well volume = 20.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.6	61	16.5	Clear, dry after 19.7 gal

WELL STABILIZATION

HSB 141D (cont.)

Date: 03/06/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.1	19	16.0	Very weakly turbid, very light brown

HSB 142C

Date: 03/06/91

One well volume = 24.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	67	14.8	Clear
1	5.7	34	15.8	Clear
2	5.7	30	16.7	Weakly turbid, light brown, surges
3	5.7	30	17.6	Very weakly turbid, very light brown, surges
4	5.6	30	17.7	Clear, surges

HSB 142D

Date: 03/06/91 – 12:26

One well volume = 6.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.0	61	14.3	Weakly turbid, light brown
1	4.9	56	14.1	Weakly turbid, light brown
2	5.0	55	14.9	Weakly turbid, light brown, surges, dry after 13.3 gal

Date: 03/06/91 – 13:10

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.1	56	16.4	Turbid, light brown

WELL STABILIZATION

HSB 143C

Date: 03/04/91

One well volume = 27.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.4	124	16.0	Clear
1	6.0	45	16.7	Clear
2	5.7	38	16.6	Clear
3	5.9	46	16.7	Clear
4	5.8	41	17.7	Clear
5	5.7	36	16.6	Clear
6	5.7	36	15.9	Clear

HSB 143D

Date: 03/04/91

One well volume = 11.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.6	70	13.7	Clear
1	5.1	19	14.3	Weakly turbid, light brown
2	5.0	21	16.0	Weakly turbid, light brown
3	5.0	21	15.9	Very weakly turbid, very light brown
4	5.0	21	16.6	Very weakly turbid, very light brown

HSB 144A

Date: 03/29/91

One well volume = 60.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.1	250	19.0	Clear
1	6.5	202	19.8	Clear
2	6.5	194	20.0	Clear
3	6.5	193	19.9	Clear
4	6.5	192	19.9	Clear

WELL STABILIZATION

HSB 145C

Date: 03/04/91

One well volume = 33.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.0	1,762	17.5	Clear
1	11.8	1,131	17.1	Clear
2	9.6	419	17.9	Clear, surges
3	7.9	404	18.6	Clear, surges
4	6.9	388	17.7	Clear
5	6.8	397	18.1	Clear

HSB145D

Date: 03/04/91

One well volume = 28.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.3	3,040	17.0	Clear
1	12.1	1,859	17.4	Moderately turbid, brown
2	7.4	449	18.9	Clear, surges
3	6.9	420	18.9	Clear, surges
4	6.3	395	18.8	Clear, 2.1 gpm
5	6.2	395	18.5	Clear

HSB146A

Date: 04/16/91

One well volume = 59.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.9	3,950	20.1	Clear
1	9.4	239	19.5	Clear
2	8.8	227	19.5	Clear
3	8.6	223	19.7	Clear
4	8.3	223	19.5	Clear
5	8.1	220	19.5	Clear

WELL STABILIZATION

HSB146C

Date: 04/16/91

One well volume = 40.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	9.9	154	18.9	Clear
1	10.9	593	18.9	Light brown, weakly turbid, dry after 54 gal

Date: 04/17/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	10.8	188	18.6	Varied from light brown/weakly turbid to medium brown/moderately turbid

HSB146D

Date: 04/16/91

One well volume = 16.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	6.9	115	17.4	Clear, dry after 16 gal

Date: 04/17/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	5.7	25	18.9	Light brown, turbid

HSB147D

Date: 03/06/91

One well volume = 11.6 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	6.3	44	13.4	Clear
1	5.6	38	16.4	Turbid, light brown, surges
2	5.6	33	17.2	Clear, surges
3	5.5	34	17.3	Clear
4	5.3	33	17.7	Clear, surges
5	5.5	33	17.7	Clear
6	5.4	33	17.5	Clear

WELL STABILIZATION

HSB148C

Date: 03/04/91

One well volume = 30.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.1	1,114	16.8	Clear, dry after 21 gal

Date: 03/05/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.9	405	16.8	Clear

HSB148D

Date: 03/04/91

One well volume = 12.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.0	919	15.6	Clear, dry after 6.4 gal

Date: 03/05/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.1	548	16.3	Aerated

HSB149D

Date: 03/05/91

One well volume = 13.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.3	23	18.3	Clear
1	4.8	23	19.0	Very weakly turbid, very light brown
2	4.8	23	18.8	Very weakly turbid, very light brown, surges
3	4.9	21	19.0	Very weakly turbid, very light brown, surges
4	4.9	23	19.6	Very weakly turbid, very light brown

WELL STABILIZATION

HSB150D

Date: 03/04/91

One well volume = 17.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.3	43	15.0	Very weakly turbid, very light brown
1	5.2	41	15.3	Weakly turbid, light brown
2	5.2	43	15.5	Very weakly turbid, very light brown
3	5.2	41	15.6	Clear
4	5.2	42	15.8	Clear

HSB151C

Date: 03/05/91

One well volume = 27.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	113	16.5	Clear
1	5.5	96	16.6	Clear
2	5.0	84	17.7	Clear, surges
3	5.1	84	17.6	Clear
4	5.2	84	18.1	Clear

HSB151D

Date: 03/05/91

One well volume = 8.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.7	34	15.4	Clear
1	5.2	29	14.1	Moderately turbid, medium brown
2	5.2	23	14.0	Moderately turbid, medium brown, surges
3	5.1	24	14.1	Weakly turbid, light brown, surges
4	5.1	24	14.3	Very weakly turbid, very light brown

WELL STABILIZATION

HSB152C

Date: 03/06/91

One well volume = 18.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.0	133	15.0	Clear
1	5.6	97	16.3	Clear
2	5.1	86	16.6	Clear
3	5.4	93	17.0	Weakly turbid, light brown, surges
4	5.3	84	17.2	Clear

HSB152D

Date: 03/06/91

One well volume = 6.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	61	13.4	Clear, dry after 7 gal

Date: 03/06/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.0	34	15.9	Turbid, brown, aerated

HXB 4D

Date: 05/05/91

One well volume = 11.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.1	189	21.5	Clear, dry after 7.5 gal

Date: 05/06/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	131	21.0	Weakly turbid, light brown

WELL STABILIZATION

HXB 5D

Date: 05/05/91

One well volume = 11.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.1	230	22.0	Weakly turbid, light brown, dry after 9 gal

Date: 05/06/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	79	21.1	Weakly turbid, light brown

IDB 3

Date: 05/21/91

One well volume = 5.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.0	1,424	19.7	Clear, dry after 3.8 gal
0	11.0	433	22.2	Clear

IDB 9

Date: 03/06/91

One well volume = 23.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.9	140	18.0	Clear
1	10.4	255	18.5	Weakly turbid, light brown, ~ 2.1 gpm
2	8.8	153	18.9	Weakly turbid, light brown, surges
3	7.8	145	19.0	Very weakly turbid, light brown, surges, ~ 1.5 gpm
4	7.8	136	19.1	Very weakly turbid, light brown, surges, ~ 1.5 gpm

WELL STABILIZATION

IDB 10

Date: 03/06/91

One well volume = 24.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	45	18.2	Clear
1	7.9	82	18.1	Clear
2	6.3	54	18.1	Clear
3	6.0	39	18.2	Clear
4	5.8	36	18.2	Clear
5	5.8	35	18.2	Clear

IDP 4

Date: 03/09/91

One well volume = 0.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	137	15.7	Moderately turbid, light brown, PVC shavings, small pieces of gravel, dry after bailing ~ 200 mL

Date: 03/10/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.4	196	15.3	Moderately turbid, light brown, PVC shavings, sand

IDQ 11

Date: 03/07/91 – 12:58

One well volume = 3.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	154	20.9	Moderately turbid, light brown, aerated, foam, dry after 2.4 gal

WELL STABILIZATION

IDQ 11 (cont.)

Date: 03/07/91 – 17:25

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)
0	5.2	41	18.4

IDQ 12

Date: 03/07/91

One well volume = 12.2 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	6.3	107	19.1	Weakly turbid, light brown, aerated, foam
1	5.1	18	19.5	Clear, ~ 2.1 gpm
2	5.0	16	20.0	Clear
3	5.1	16	21.1	Clear
4	5.1	16	20.6	Clear

K 301P

Date: 02/18/91

One well volume = 1.5 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	7.3	141	21.9	Weakly turbid, light brown
1	7.9	148	22.0	Moderately turbid, light brown
2	6.8	118	21.8	Strongly turbid, orange-brown
3	6.8	117	22.1	Strongly turbid, brown
4	6.8	116	22.1	Strongly turbid, brown

KRB 16D

Date: 12/10/91

One well volume = 13.0 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	6.5	122	20.6	Weakly turbid, brown
1	5.4	53	19.7	Moderately turbid, brown
2	5.3	44	19.2	Clear, surges
3	5.2	45	20.1	Clear, surges
4	5.1	44	20.0	Clear, surges

WELL STABILIZATION

KRB 17D

Date: 12/10/91

One well volume = 14.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.4	168	19.3	Weakly turbid, light brown
1	6.3	102	19.3	Strongly turbid, brown
2	6.3	90	19.5	Weakly turbid, light brown, surges
3	6.3	92	19.5	Clear, surges
4	6.3	91	19.6	Clear, surges

KRB 18D

Date: 12/10/91

One well volume = 13.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.2	118	19.6	Clear, dry after 12 gal

Date: 12/11/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	83	18.8	Moderately turbid, light brown

KRB 19D

Date: 12/10/91

One well volume = 11.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.8	141	19.3	Clear, dry after 9 gal

Date: 12/11/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	67	18.8	Very weakly turbid, light brown

WELL STABILIZATION

LAW 1D

Date: 12/14/91

One well volume = 111.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.2	130	19.2	Clear, strong odor (hydrogen sulfide?)
1	5.8	75	19.6	Clear, moderate odor
2	5.7	74	19.5	Clear, weak odor
3	5.7	74	19.6	Clear, weak odor
4	5.7	74	19.5	Clear, weak odor

LAW 2B

Date: 12/11/91

One well volume = 125.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.8	665	18.8	Clear
1	11.8	893	19.3	Clear
2	11.6	612	19.4	Clear
3	11.5	508	19.5	Clear
4	11.3	429	19.5	Clear
5	11.3	376	19.6	Clear

LAW 3B

Date: 12/30/91

One well volume = 117.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.6	4,390	18.3	Clear
1	12.1	1,545	18.8	Clear
2	11.9	1,006	19.2	Clear
3	11.7	879	18.7	Clear
4	11.6	788	18.2	Clear
5	11.5	727	18.4	Clear

WELL STABILIZATION

LFW 43B

Date: 09/02/91

One well volume = 50.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.4	122	19.1	Clear
1	6.9	49	18.5	Light brown, weakly turbid
2	6.7	45	18.4	Very light brown, very weakly turbid
3	6.5	40	18.4	Clear
4	6.4	39	18.5	Clear

LFW 43C

Date: 09/02/91

One well volume = 25.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.1	118	19.6	Clear
1	5.9	36	18.6	Light brown, weakly turbid
2	5.9	35	18.5	Clear
3	5.9	35	18.6	Clear
4	5.8	34	18.5	Clear

LFW 43D

Date: 09/02/91

One well volume = 12.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	115	18.8	Clear
1	5.6	41	18.6	Light brown, weakly turbid
2	5.6	53	18.6	Light brown, moderately turbid
3	5.4	31	18.6	Light brown, weakly turbid
4	5.6	38	18.8	Light brown, weakly turbid
5	5.2	29	18.8	Clear
6	5.3	29	19.1	Clear

WELL STABILIZATION

LFW 44D

Date: 09/02/91

One well volume = 11.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.8	36	22.3	Clear
1	4.9	19	20.4	Light brown, weakly turbid
2	4.9	19	20.0	Very light brown, very weakly turbid
3	4.9	20	19.8	Clear
4	4.9	19	19.7	Clear

LFW 45D

Date: 09/02/91

One well volume = 12.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	52	21.2	Very light brown, very weakly turbid
1	5.0	23	20.0	Clear
2	5.0	20	19.8	Clear
3	5.0	20	19.7	Clear
4	5.0	20	19.7	Clear

LFW 46D

Date: 09/02/91

One well volume = 9.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	130	22.6	Very light brown, very weakly turbid
1	5.6	79	21.8	Very light brown, very weakly turbid
2	5.5	88	21.4	Clear
3	5.5	97	21.3	Clear
4	5.5	82	21.2	Clear

LFW 47C

Date: 09/02/91

One well volume = 28.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.6	45	21.8	Clear, odor
1	5.1	45	19.0	Clear, weak odor

WELL STABILIZATION

LFW 47C (cont.)

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
2	5.1	31	18.2	Clear
3	5.1	30	18.1	Clear
4	5.2	30	18.5	Clear

LFW 47D

Date: 09/02/91

One well volume = 10.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.0	38	21.6	Clear
1	5.2	21	21.1	Clear
2	5.2	23	21.0	Clear
3	5.2	23	20.8	Clear
4	5.2	24	20.7	Clear

LFW 48C

Date: 09/02/91

One well volume = 27.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.1	189	19.7	Clear
1	6.3	80	19.1	Light brown, weakly turbid
2	6.0	56	19.1	Light brown, weakly turbid
3	5.6	31	18.9	Light brown, moderately turbid
4	5.6	29	19.0	Clear

LFW 48D

Date: 09/02/91

One well volume = 10.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	249	19.8	Light brown, moderately turbid
1	5.9	124	19.6	Very light brown, very weakly turbid
2	6.4	273	19.4	Light brown, weakly turbid
3	6.6	338	19.2	Very light brown, very weakly turbid, weak odor
4	6.6	342	19.2	Very light brown, very weakly turbid, weak odor

WELL STABILIZATION

LFW 55C

Date: 09/03/91

One well volume = 35.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.2	122	21.2	Clear
1	5.4	45	19.0	Clear
2	5.4	38	18.8	Clear
3	5.4	36	18.5	Clear
4	5.3	35	18.7	Clear

LFW 55D

Date: 09/03/91

One well volume = 17.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.7	33	21.0	Very light brown, very weakly turbid
1	5.3	21	19.6	Clear
2	5.3	21	19.5	Clear
3	5.2	22	19.4	Clear
4	5.2	22	19.3	Clear

LFW 56D

Date: 09/03/91

One well volume = 9.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	36	22.1	Very light brown, very weakly turbid
1	5.2	18	20.1	Clear
2	5.1	16	19.9	Very light brown, very weakly turbid
3	5.1	14	19.7	Clear
4	5.1	15	19.9	Very light brown, very weakly turbid, weak odor

WELL STABILIZATION

LFW 57B

Date: 09/03/91

One well volume = 50.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	145	19.7	Clear
1	5.2	53	19.1	Light brown, moderately turbid
2	4.9	49	19.1	Very light brown, very weakly turbid
3	4.8	49	19.0	Clear
4	4.7	49	19.0	Clear

LFW 57C

Date: 09/03/91

One well volume = 24.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	54	19.9	Clear
1	5.7	44	18.8	Clear
2	5.7	39	18.6	Clear
3	5.7	37	18.5	Clear
4	5.7	39	18.5	Clear

LFW 57D

Date: 09/03/91

One well volume = 9.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.4	51	19.5	Clear
1	5.6	14	19.5	Light brown, weakly turbid
2	5.6	14	19.0	Light brown, weakly turbid
3	5.6	14	19.0	Light brown, weakly turbid
4	5.6	15	19.0	Very light brown, very weakly turbid

LFW 58D

Date: 09/03/91

One well volume = 10.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.1	62	20.5	Very light brown, very weakly turbid
1	5.5	22	19.5	Light brown, weakly turbid

WELL STABILIZATION

LFW 58D (cont.)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
2	5.3	21	19.3	Very light brown, very weakly turbid, surges
3	5.2	23	19.2	Clear
4	5.2	23	19.3	Clear

LFW 59B

Date: 09/04/91

One well volume = 51.2 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>
0	5.6	45	19.5
1	4.3	91	19.4
2	4.3	45	19.4
3	4.3	44	19.4
4	4.3	45	19.5

LFW 59C

Date: 09/04/91

One well volume = 28.5

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.3	90	19.6	Clear
1	4.9	52	19.3	Clear
2	4.9	46	19.1	Clear
3	4.9	55	19.1	Clear
4	4.9	45	19.2	Clear
5	4.9	44	19.3	Clear

LFW 59D

Date: 09/04/91

One well volume = 10.1 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.8	77	23.0	Clear
1	5.2	29	19.7	Light brown, weakly turbid
2	5.1	32	19.3	Very light brown, very weakly turbid, surges

WELL STABILIZATION

LFW 59D (cont.)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
3	5.0	33	19.2	Clear
4	5.0	30	19.4	Clear

LFW 60D

Date: 09/04/91

One well volume = 10.2 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	7.1	211	20.1	Clear
1	6.9	85	19.7	Light brown, weakly turbid, dry after 14 gal

Date: 09/05/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	6.4	94	19.8	Very light brown, turbidity varied, aerated

LFW 61C

Date: 09/04/91

One well volume = 21.1 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	7.5	220	18.9	Clear
1	5.7	44	18.6	Brown, moderately turbid
2	5.5	33	18.6	Brown, moderately turbid
3	5.4	30	18.6	Light brown, weakly turbid
4	5.5	32	18.7	Brown, moderately turbid

LFW 61D

Date: 09/04/91

One well volume = 10.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	5.7	45	20.9	Very light brown, very weakly turbid
1	5.1	22	19.5	Clear

WELL STABILIZATION

LFW 61D (cont.)

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
2	5.1	21	18.9	Clear
3	5.0	24	18.8	Very light brown, very weakly turbid
4	4.9	23	18.7	Clear

LFW 62B

Date: 09/04/91

One well volume = 52.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.2	94	20.2	Light brown, weakly turbid
1	6.7	84	19.6	Brown, strongly turbid
2	5.7	45	19.3	Light brown, moderately turbid
3	5.6	42	19.3	Light brown, moderately turbid
4	5.5	39	19.5	Light brown, moderately turbid

LFW 62C

Date: 09/04/91

One well volume = 23.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.6	48	20.0	Very light brown, very weakly turbid
1	6.1	29	19.3	Very light brown, very weakly turbid
2	5.6	40	19.2	Brown, moderately turbid
3	5.5	27	19.3	Clear
4	5.6	27	19.4	Clear

LFW 62D

Date: 09/04/91

One well volume = 11.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.6	66	20.5	Clear
1	5.3	31	20.2	Clear, dry after 12 gal

WELL STABILIZATION

LFW 62D (cont.)

Date: 09/05/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.1	26	19.1	Brown, moderately turbid, aerated

MSB 1B

Date: 03/11/91

One well volume = 42.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.3	104	18.9	Clear
1	5.6	42	19.0	Weakly turbid, light brown
2	5.5	34	19.1	Clear
3	5.6	33	19.2	Clear
4	5.6	32	19.1	Clear

MSB 1C

Date: 03/11/91

One well volume = 32.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.0	3,600	19.0	Clear, dry after 23 gal

Date: 03/12/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	12.1	2,700	19.5

MSB 1CC

Date: 03/11/91

One well volume = 17.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.6	267	19.4	Very weakly turbid, light brown, dry after 12 gal

WELL STABILIZATION

MSB 1CC (cont.)

Date: 03/12/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.4	258	19.7	Weakly turbid, light brown

MSB 1D

Date: 03/03/91

One well volume = 11.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.2	201	19.5	Very weakly turbid, light brown
1	6.3	104	19.0	Very weakly turbid, light brown, ~ 2 gpm
2	6.5	111	19.4	Clear
3	6.3	107	19.6	Clear
4	6.4	99	19.9	Clear
5	6.3	98	19.9	Clear

MSB 2B

Date: 01/31/91

One well volume = 41.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	2,730	18.3	Clear, dry after 33 gal

Date: 02/01/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.8	693	17.0	Moderately turbid, light brown

MSB 2C

Date: 01/31/91

One well volume = 14.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.5	685	17.7	Very weakly turbid, light brown, dry after 6 gal

WELL STABILIZATION

MSB 2C (cont.)

Date: 02/01/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	11.9	921	16.8

MSB 2D

Date: 03/12/91

One well volume = 10.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.6	193	14.3	Clear
1	5.6	51	18.5	Very weakly turbid, light brown
2	6.1	87	18.6	Moderately turbid, light brown, ~ 2 gpm
3	5.9	84	18.6	Weakly turbid, light brown
4	5.8	81	19.0	Weakly turbid, light brown, ~ 1.2 gpm

MSB 3B

Date: 01/29/91

One well volume = 42.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.7	178	18.9	Clear
1	6.1	47	18.1	Strongly turbid, orange
2	6.0	42	18.1	Moderately turbid, light brown
3	5.9	40	18.1	Weakly turbid, light brown
4	5.9	39	18.1	Very weakly turbid, light brown

MSB 3C

Date: 01/29/91

One well volume = 15.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.3	679	18.0	Very weakly turbid, light brown, dry after 8.5 gal

WELL STABILIZATION

MSB 3C (cont.)

Date: 01/30/91

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)
0	11.4	604	18.8

MSB 3D

Date: 01/29/91

One well volume = 11.0 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	7.1	185	18.8	Very weakly turbid, light brown
1	6.2	94	18.8	Weakly turbid, light brown
2	6.2	104	18.9	Strongly turbid, orange
3	6.0	84	19.0	Strongly turbid, light brown
4	6.1	87	19.1	Moderately turbid light brown
5	6.1	94	19.2	Moderately turbid, light brown, strong solvent odor

MSB 4B

Date: 01/31/91

One well volume = 43.4 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	6.8	88	18.0	Weakly turbid, light brown
1	5.3	25	18.3	Weakly turbid, light brown
2	5.2	23	18.3	Very weakly turbid, light brown
3	5.2	23	18.2	Clear
4	5.2	23	18.3	Clear

MSB 4C

Date: 01/31/91

One well volume = 31.8 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	8.9	212	18.1	Clear, dry after 28 gal

WELL STABILIZATION

MSB 4C (cont.)

Date: 02/01/91

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)
0	7.9	231	17.4

MSB 4D

Date: 01/31/91

One well volume = 11.4 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	6.4	205	16.3	Very weakly turbid, light brown
1	5.5	133	18.5	Weakly turbid, light brown
2	5.2	112	19.1	Weakly turbid, light brown
3	4.9	103	19.0	Very weakly turbid, light brown
4	4.9	104	19.2	Clear

MSB 5B

Date: 01/27/91

One well volume = 48.3 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	7.4	164	17.1	Weakly turbid, light brown
1	5.7	30	17.3	Weakly turbid, light brown
2	5.6	26	17.7	Weakly turbid, light brown
3	5.5	25	17.5	Weakly turbid, light brown
4	5.5	24	17.5	Very weakly turbid, light brown

MSB 5C

Date: 01/27/91 – 11:58

One well volume = 23.8 gal

Well Vol.	pH	Sp. Cond. (μ S/cm)	Water Temp. (°C)	Comments
0	11.8	1,092	17.2	Very weakly turbid, light brown, dry after 14 gal

WELL STABILIZATION

MSB 5C (cont.)

Date: 01/27/91 – 16:20

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	11.6	1,364	17.5

MSB 6B

Date: 01/27/91

One well volume = 51.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.0	141	16.8	Very weakly turbid, light brown
1	9.7	115	17.5	Moderately turbid, light brown
2	7.1	86	17.7	Moderately turbid, light brown
3	6.8	75	17.7	Moderately turbid, light brown
4	6.7	71	17.8	Weakly turbid, light brown
5	6.6	65	18.7	Weakly turbid, light brown
6	6.6	63	18.2	Very weakly turbid, light brown

MSB 6C

Date: 01/27/91 – 14:19

One well volume = 20.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	836	17.6	Weakly turbid, light brown, dry after 13 gal

Date: 01/27/91 – 17:15

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	11.6	1,423	17.0

WELL STABILIZATION

MSB 7B

Date: 01/21/91

One well volume = 40.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	2,590	15.5	Very weakly turbid, light brown, dry after 31 gal

Date: 01/22/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.4	696	16.4	Turbid, brown

MSB 7C

Date: 01/21/91

One well volume = 15.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.4	717	16.2	Weakly turbid, light brown, dry after 8 gal

Date: 01/22/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.8	713	15.6	Turbid, brown

MSB 8B

Date: 01/21/91

One well volume = 38.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.4	230	14.7	Very weakly turbid, light brown
1	5.4	25	15.8	Moderately turbid, light brown
2	5.2	24	15.9	Very weakly turbid, light brown
3	5.2	24	16.0	Very weakly turbid, light brown
4	5.2	26	16.1	Very weakly turbid, light brown

WELL STABILIZATION

MSB 8C

Date: 01/21/91

One well volume = 16.7 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.9	194	15.3	Clear
1	5.6	165	16.4	Moderately turbid, light brown
2	5.3	168	16.3	Very weakly turbid, light brown
3	5.3	169	16.2	Clear
4	5.4	171	16.8	Clear

MSB 13CC

Date: 03/11/91

One well volume = 17.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	263	19.2	Clear, dry after 8 gal

Date: 03/12/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	7.4	306	18.6

MSB 13D

Date: 01/31/91

One well volume = 7.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.3	329	18.1	Moderately turbid, light brown
1	6.8	356	18.7	Weakly turbid, light brown, pump rate dropped at 7 gal
2	6.4	326	18.4	Moderately turbid, light brown, ~1-gpm pump rate and dropping, dry after 16 gal

WELL STABILIZATION

MSB 13D (cont.)

Date: 02/01/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	340	16.4	Turbidity varied, brown

MSB 57D

Date: 03/11/91

One well volume = 14.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.7	203	18.3	Weakly turbid, light brown
1	5.9	74	19.0	Moderately turbid, yellowish brown, ~ 2 gpm, dry after 16 gal

Date: 03/12/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.8	161	19.4	Weakly turbid, light brown

MSB 58D

Date: 03/12/91

One well volume = 9.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.4	237	18.0	Weakly turbid, light brown, dry after 6 gal

Date: 03/13/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	118	18.5	Turbidity varied, light brown

WELL STABILIZATION

MSB 59D

Date: 01/31/91

One well volume = 11.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	243	18.0	Very weakly turbid, light brown
1	6.3	109	18.4	Weakly turbid, light brown, >1 gpm
2	6.3	121	18.0	Moderately turbid, light brown, surges
3	6.3	138	18.5	Moderately turbid, light brown, surges
4	6.3	136	18.6	Weakly turbid, light brown, surges

MSB 60D

Date: 01/27/91

One well volume = 12.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	192	18.1	Very weakly turbid, light brown
1	6.2	82	18.0	Moderately turbid, light brown, ~2 gpm
2	6.2	76	18.8	Very weakly turbid, light brown
3	6.2	74	18.8	Clear
4	6.1	69	19.0	Clear

MSB 62B

Date: 03/12/91

One well volume = 43.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.4	207	18.2	Weakly turbid, light brown
1	5.9	44	18.7	Moderately turbid, light brown
2	5.8	39	18.9	Weakly turbid, light brown
3	5.8	40	18.8	Very weakly turbid, light brown
4	5.8	41	18.8	Clear

WELL STABILIZATION

MSB 62C

Date: 03/12/91

One well volume = 21.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.6	375	18.2	Clear
1	6.3	281	18.6	Weakly turbid, light brown, pump rate dropped at 10 gal
2	5.6	250	18.8	Clear, ~ 3.5 gpm
3	5.5	247	18.8	Clear
4	5.5	244	18.8	Clear

MSB 62D

Date: 03/12/91

One well volume = 7.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.3	3,280	17.7	Very weakly turbid, light brown, dry after 4 gal

Date: 03/13/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	12.1	4,330	18.3

MSB 63B

Date: 01/27/91

One well volume = 45.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.2	162	17.5	Very weakly turbid, light brown
1	5.7	37	17.7	Very weakly turbid, light brown
2	5.6	31	18.0	Clear
3	5.6	30	18.0	Clear
4	5.5	29	18.0	Clear

WELL STABILIZATION

MSB 63C

Date: 01/31/91

One well volume = 17.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.0	257	16.7	Weakly turbid, light brown
1	6.9	158	17.0	Weakly turbid, light brown, pump rate dropped at 12 gal
2	5.8	94	17.3	Very weakly turbid, light brown, surges
3	5.8	90	17.8	Clear, surges
4	5.7	90	17.8	Clear, surges

MSB 63D

Date: 01/27/91 – 15:13

One well volume = 9.1 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.6	148	15.0	Weakly turbid, light brown, dry after 6 gal

Date: 01/27/91 – 17:40

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.0	328	17.1	Moderately turbid, light brown

MSB 64D

Date: 01/27/91

One well volume = 9.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.9	343	17.9	Weakly turbid, light brown
1	7.8	385	17.4	Moderately turbid, light brown, pump rate dropped to 1.6 gpm at 6 gal
2	7.0	309	17.4	Weakly turbid, light brown
3	6.4	253	17.5	Very weakly turbid, light brown
4	6.3	250	17.6	Very weakly turbid, light brown

WELL STABILIZATION

MSB 77B

Date: 02/09/91

One well volume = 51.8 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	12.8	4,100	18.2	Clear
1	12.0	681	18.4	Strongly turbid, light brown
2	11.5	339	18.5	Moderately turbid, light brown
3	11.1	217	18.5	Moderately turbid, light brown
4	10.6	156	18.6	Moderately turbid, light brown
5	10.2	124	18.6	Moderately turbid, light brown
6	10.0	116	18.7	Weakly turbid, light brown
7	9.6	101	18.6	Weakly turbid, light brown
8	9.0	91	18.6	Weakly turbid, light brown
9	7.4	80	18.1	Very weakly turbid, light brown
10	7.4	80	18.2	Very weakly turbid, light brown

MSB 77C

Date: 02/09/91

One well volume = 34.9 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	12.0	709	18.2	Strongly turbid, brown
1	6.6	55	18.3	Strongly turbid, light brown
2	6.2	47	18.2	Moderately turbid, light brown
3	6.0	45	18.4	Weakly turbid, light brown
4	5.9	42	18.3	Very weakly turbid, light brown

MSB 77D

Date: 02/09/91

One well volume = 10.0 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	9.1	340	18.1	Very weakly turbid, light brown, dry after 4 gal

Date: 02/10/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. (°C)</u>	<u>Comments</u>
0	11.2	805	17.3	Weakly turbid, light brown

WELL STABILIZATION

MSB 77TA

Date: 02/09/91

One well volume = 93.0 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.9	315	18.1	Very weakly turbid, light brown, dry after 53 gal

Date: 02/10/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.8	498	17.4	Weakly turbid, light brown, onion-like odor

MSB 78D

Date: 03/12/91

One well volume = 7.8 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.1	141	16.8	Clear
1	6.0	38	17.8	Weakly turbid, light brown, surges, pump rate dropped at 4 gal
2	5.9	42	18.0	Strongly turbid, light brown
3	6.0	44	18.1	Strongly turbid, light brown
4	6.1	47	18.7	Strongly turbid, light brown

MSB 81B

Date: 02/09/91

One well volume = 48.6 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	1,293	19.9	Clear
1	10.5	203	18.5	Moderately turbid, light brown
2	6.5	87	18.7	Moderately turbid, light brown
3	6.2	70	18.8	Weakly turbid, light brown
4	6.2	64	18.9	Weakly turbid, light brown

WELL STABILIZATION

MSB 82A

Date: 02/04/91

One well volume = 68.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.3	3,190	19.4	Clear, dry after 27 gal

Date: 02/05/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	12.4	3,250	17.0

MSB 82B

Date: 02/04/91

One well volume = 48.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.9	182	19.0	Weakly turbid, light brown
1	5.7	53	19.3	Moderately turbid, light brown
2	4.9	36	19.3	Weakly turbid, light brown
3	4.5	36	19.3	Very weakly turbid, light brown
4	4.4	36	19.2	Clear

MSB 82D

Date: 02/04/91

One well volume = 9.2 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.0	207	19.2	Moderately turbid, light brown
1	7.0	134	19.0	Weakly turbid, light brown, pump rate dropped at 5 gal
2	6.4	91	19.8	Weakly turbid, light brown, surges
3	6.4	88	20.2	Very weakly turbid, light brown, surges
4	6.3	82	20.0	Very weakly turbid, light brown

WELL STABILIZATION

MSB 82TA

Date: 02/04/91

One well volume = 81.4 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.1	167	21.0	Weakly turbid, light brown
1	6.7	74	19.4	Moderately turbid, odor
2	6.2	53	19.6	Weakly turbid, light brown, less odor
3	6.0	45	19.5	Very weakly turbid, light brown, no odor
4	5.9	42	19.5	Clear

MSB 83B

Date: 03/17/91

One well volume = 49.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.7	189	17.1	Weakly turbid, light brown, pieces of plastic
1	5.6	30	18.2	Weakly turbid, light brown
2	5.3	26	18.0	Very weakly turbid, light brown
3	5.2	25	17.7	Very weakly turbid, light brown
4	5.2	24	17.9	Clear

MSB 83D

Date: 03/17/91 – 11:59

One well volume = 7.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.0	189	16.3	Weakly turbid, light brown, pieces of plastic, dry after 3 gal

Date: 03/17/91 – 13:25

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.3	216	16.5	Weakly turbid, light brown

WELL STABILIZATION

MSB 83TA

Date: 03/17/91

One well volume = 92.4 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	8.0	145	17.1	Clear, pieces of plastic
1	7.1	66	18.0	Clear
2	6.7	59	18.1	Clear
3	6.5	58	18.0	Clear
4	6.4	56	17.9	Clear

MSE 85D

Date: 02/09/91

One well volume = 9.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.7	231	19.3	Weakly turbid, light brown
1	6.9	216	18.8	Very weakly turbid, light brown, pump rate dropped at 7 gal
2	6.4	188	19.01	Very weakly turbid, light brown, ~ 2 gpm
3	6.3	153	19.1	Very weakly turbid, light brown, 1.6 gpm
4	6.1	108	19.5	Clear, ~ 1 gpm
5	6.1	103	19.6	Clear

NPM 2

Date: 12/09/91

One well volume = 20.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	97	19.0	Weakly turbid, light brown
1	6.7	38	19.0	Moderately turbid, pinkish brown, dry after 26 gal

Date: 12/10/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.6	48	17.2	Weakly turbid, light brown

WELL STABILIZATION

NPM 3

Date: 12/09/91

One well volume = 16.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.2	123	18.5	Weakly turbid, brown
1	6.9	76	18.2	Weakly turbid, brown
2	6.0	43	19.0	Weakly turbid, light brown, ~1.8 gpm
3	6.0	37	19.3	Clear
4	5.9	35	19.5	Clear

NPM 4

Date: 12/09/91

One well volume = 20.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	5.0	23	20.2	Moderately turbid, light pinkish brown
1	5.2	23	18.5	Moderately turbid, light pinkish brown
2	5.1	23	18.4	Moderately turbid, light pinkish brown
3	5.0	23	20.0	Strongly turbid, light pinkish brown, 1.25 gpm
4	5.0	21	20.2	Moderately turbid, light pinkish brown

NPM 4DD

Date: 12/09/91

One well volume = 0.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.2	124	19.3	Weakly turbid, light brown, dry after ~500 mL

Date: 12/10/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>
0	6.4	70	16.0

WELL STABILIZATION

NPM 19A

Date: 12/08/91

One well volume = 16.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.5	73	19.2	Weakly turbid, light brown
1	10.3	110	19.0	Strongly turbid, pinkish brown
2	8.2	69	19.4	Moderately turbid, pinkish brown, ~1.5 gpm
3	7.3	60	19.4	Weakly turbid, pinkish brown, ~1.5 gpm
4	7.1	54	19.4	Very weakly turbid, pinkish brown, ~1.5 gpm
5	7.0	52	19.5	Very weakly turbid, pinkish brown, ~1.5 gpm

NPM 19B

Date: 12/08/91

One well volume = 35.5 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.6	2,030	19.2	Clear
1	12.4	1,268	19.4	Moderately turbid, pinkish brown
2	9.7	127	19.7	Moderately turbid, pinkish brown
3	6.9	76	19.8	Weakly turbid, pinkish brown
4	6.8	65	19.7	Very weakly turbid, pinkish brown
5	6.6	59	19.8	Very weakly turbid, pinkish brown

NPM 19C

Date: 12/08/91

One well volume = 50.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	10.3	143	19.0	Clear
1	7.3	108	19.0	Weakly turbid, light brown
2	6.3	54	19.7	Very weakly turbid, light brown, 1.5-2 gpm
3	6.3	55	20.0	Clear, 1.5-2 gpm
4	6.3	56	19.9	Clear, 1.5-2 gpm

WELL STABILIZATION

NPM 19D

Date: 12/08/91

One well volume = 95.3 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	13.0	5,140	19.3	Clear
1	12.3	1,268	19.6	Very weakly turbid, light brown
2	11.0	296	19.4	Clear
3	10.5	541	19.6	Clear
4	10.3	224	19.8	Clear
5	10.2	212	19.9	Clear

NPM 19E

Date: 12/08/91

One well volume = 99.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.0	716	20.4	Clear, dry after 30 gal
0	12.1	710	19.5	

NPM 34A

Date: 12/08/91

One well volume = 7.8 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.0	118	18.7	Clear
1	6.1	30	19.3	Clear
2	6.5	33	19.5	Weakly turbid, light brown
3	6.3	38	19.5	Very weakly turbid, light brown
4	6.5	38	19.5	Very weakly turbid, light brown
5	6.4	37	19.5	Very weakly turbid, light brown
6	5.9	24	19.5	Clear
7	5.9	23	19.5	Clear

NPM 34B

Date: 12/08/91 – 12:41

One well volume = 30.5 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.2	788	19.5	Clear, dry after 29 gal

WELL STABILIZATION

NPM 34B (cont.)

Date: 12/08/91 - 16:15

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.1	101	19.4	Moderately turbid, pinkish brown

NPM 34C

Date: 12/08/91

One well volume = 56.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.8	423	18.1	Clear
1	11.2	231	18.6	Strongly turbid, light brown
2	7.3	98	19.2	Moderately turbid, light brown
3	6.8	75	19.1	Weakly turbid, light brown, surges
4	6.6	65	19.5	Very weakly turbid, light brown
5	6.5	58	19.9	Very weakly turbid, light brown

NPM 34D

Date: 12/08/91 - 11:15

One well volume = 110.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	12.5	1,457	17.9	Clear, dry after 84.5 gal

Date: 12/08/91 - 16:35

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.7	136	19.1	Strongly turbid, brown

NPM 34E

Date: 12/08/91

One well volume = 100.0 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	13.0	4,260	17.5	Clear
1	12.6	1,794	19.5	Moderately turbid, light brown
2	11.8	474	18.6	Clear, surges

WELL STABILIZATION

NPM 34E (cont.)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
3	11.0	287	18.4	Clear
4	10.6	230	18.5	Clear
5	10.3	211	19.0	Clear
6	10.0	197	19.5	Clear
7	10.0	193	19.7	Clear

P 14C

Date: 12/30/91

One well volume = 67.8 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	7.9	167	18.6	Very weakly turbid, very light brown
1	7.7	163	18.2	Weakly turbid, light brown
2	7.6	160	17.8	Clear
3	7.7	160	18.5	Clear
4	7.6	160	18.5	Clear

SCA 3

Date: 03/12/91 – 11:12

One well volume = 12.7 gal

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	6.9	95	16.5	Turbid, brown
1	6.5	40	16.9	Moderately turbid, medium brown
2	5.6	33	18.2	Turbid, light brown, surges, dry after 29 gal

Date: 03/12/91 – 14:30

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. ($\mu\text{S/cm}$)</u>	<u>Water Temp. ($^{\circ}\text{C}$)</u>	<u>Comments</u>
0	5.6	28	19.1	Turbid, brown, aerated

WELL STABILIZATION

SCA 3A

Date: 03/12/91

One well volume = 3.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.8	548	18.3	Strongly turbid, red-brown
1	6.9	525	17.3	Strongly turbid, red-brown, dry after bailing ~ 5.3 gal

Date: 03/13/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	538	17.9	Turbid, red-brown

SCA 4

Date: 03/12/91 – 12:01

One well volume = 12.6 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	7.8	165	17.5	Turbid, light brown
1	6.5	31	19.0	Turbid, light brown, dry after 22.4 gal

Date: 03/12/91 – 13:30

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.7	53	18.0	Very weakly turbid, very light brown, aerated

SCA 4A

Date: 03/12/91

One well volume = 3.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.5	294	16.5	Strongly turbid, red-brown
1	6.6	302	16.9	Turbid, red-brown, dry after 4.5 gal

WELL STABILIZATION

SCA 4A (cont.)

Date: 03/13/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.3	301	17.2	Turbid, red-brown

SCA 5

Date: 09/19/91 – 15:07

One well volume = 11.9 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.9	323	25.5	Very light brown, very weakly turbid, dry after 15 gal

Date: 09/19/91 – 16:05

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	6.4	131	24.0	Brown, turbidity varied

SCA 6

Date: 03/12/91 – 11:48

One well volume = 12.3 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	11.5	493	17.3	Clear, a little trashy, dry after 11.6 gal

Date: 03/12/91 – 15:00

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	9.7	127	18.8	Turbid, light brown

WELL STABILIZATION

SSS 4

Date: 03/09/91

One well volume = 0.3 gal (1.2 L)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.4	91	17.1	Strongly turbid (muddy), orange-brown, dry after bailing ~ 1.1 L

Date: 03/10/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.8	37	14.2	Strongly turbid (muddy), orange-brown

SSS 6

Date: 03/09/91

One well volume = 0.4 gal (1.3 L)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.9	30	16.5	Strongly turbid, orange-brown
1	5.0	25	16.9	Strongly turbid, orange-brown, sand, dry after bailing 2.3 L

Date: 03/10/91

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.9	64	15.2	Strongly turbid, orange-brown, sand

SSS 19

Date: 03/09/91

One well volume = 0.4 gal (1.4 L)

<u>Well Vol.</u>	<u>pH</u>	<u>Sp. Cond. (μS/cm)</u>	<u>Water Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.9	29	16.8	Weakly turbid, light brown
1	4.8	28	16.3	Strongly turbid (muddy), brown, dry after bailing ~ 2.4 L

WELL STABILIZATION

SSS 19 (cont.)

Date: 03/10/91

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.8	20	15.8	Strongly turbid, brown, sand

Z 9

Date: 03/22/91

One well volume = 3.8 gal

<u>Well</u> <u>Vol.</u>	<u>pH</u>	<u>Sp. Cond.</u> <u>(μS/cm)</u>	<u>Water</u> <u>Temp. ($^{\circ}$C)</u>	<u>Comments</u>
0	4.9	39	20.1	Turbid, brown
1	5.5	50	19.8	Turbid, brown
2	5.7	58	19.8	Turbid, brown
3	5.8	61	20.8	Turbid, brown
4	5.8	56	20.9	Turbid, brown

Notes

6. ENVIRONMENTAL SOIL BORINGS

The sources of data for this section are the SRS Soil Boring Installation Report and the Daily Activities Report. The completion date given for each boring is the date drilling was completed, unless otherwise noted.

HAZARDOUS WASTE/MIXED WASTE DISPOSAL FACILITY

The borings in Table 4 were drilled by the mud rotary method and sampled by wireline coring and Shelby-tube sampling as part of the Hazardous Waste/Mixed Waste Disposal Facility Hydrogeologic Characterization. All four HMD borings were drilled by the mud rotary method to 14 ft, and then by wireline coring to their respective final depths. After sampling, the borings were abandoned by grouting. Oversight was by SEC. EMTC performed the drilling.

Table 4. Hazardous Waste/Mixed Waste Disposal Facility Characterization Borings

<u>Core ID</u>	<u>Date</u>	<u>Depth (ft)</u>
HMD 1C	12/17/90	140.0
HMD 2C	12/21/90	125.0
HMD 3C	01/03/91	112.0
HMD 4C	01/07/91	112.0

SANITARY LANDFILL

The LFH soil borings in Table 5 were drilled by hollow-stem augering and sampled by hydropunch sampling. The LFW soil borings were drilled by the mud rotary method and sampled by wireline coring and Shelby tube. Both LFH and LFW borings were taken as part of the Sanitary Landfill Groundwater Quality Assessment Plan. After sampling, the borings were abandoned by grouting. Oversight was by SEC. GEGS performed the drilling.

Table 5. Sanitary Landfill Well Site Investigation Borings

<u>Core ID</u>	<u>Date</u>	<u>Depth (ft)</u>
LFH 1AB	03/27/91	11.0
LFH 1C	04/03/91	10.0
LFH 2AB	03/26/91	25.0
LFH 2C	04/03/91	25.0
LFH 3AB	03/28/91	28.0
LFH 3C	04/02/91	28.0
LFH 4AB	03/29/91	19.0
LFH 4C	04/01/91	19.0
LFH 5AB	03/28/91	11.0

ENVIRONMENTAL SOIL BORINGS

Table 5. Sanitary Landfill Well Site Investigation Borings (cont.)

<u>Core ID</u>	<u>Date</u>	<u>Depth (ft)</u>
LFH 5C	04/03/91	8.0
LFH 6AB	03/26/91	21.0
LFH 6C	04/02/91	21.0
LFW 1SB	04/18/91	236.5
LFW 2SB	04/15/91	167.5
LFW 3SB	04/30/91	249.0
LFW 5SB	04/24/91	132.5
LFW 6SB	04/10/91	129.5 (Shelby)
LFW 8SB	05/09/91	230.0
LFW 9SB	04/03/91	124.2
LFW 10SB	04/08/91	235.0
LFW 11SB	05/02/91	132.5

PROPOSED NEW SANITARY LANDFILL, SITE N

The borings in Table 6 were obtained by continuous coring techniques. After sampling, the borings were abandoned by grouting. Oversight was by CDM Federal Programs Corporation of Augusta, GA. GEGS performed the drilling.

Table 6. Proposed New Sanitary Landfill Site Investigation Borings

<u>Core ID</u>	<u>Date</u>	<u>Depth (ft)</u>
LWN 1SB	10/16/91	270.0
LWN 2SB	10/10/91	225.0
LWN 3SB	10/04/91	254.0

7. SURVEYING

The source of data for Table 7 is a database maintained by Surveying and Mapping Consultants (SMC) of Tigerville, SC. SMC conducted the following surveying in 1991. Elevations are in feet above mean sea level.

Table 7. Survey Information

<u>Well ID</u>	<u>SRS Coordinates</u>		<u>Top of</u>	<u>Ground</u>	<u>Final Height</u>	<u>Date of</u>
	<u>North</u>	<u>East</u>	<u>Casing</u>		<u>of Casing</u>	
			<u>Elevation</u>	<u>Elevation</u>	<u>Above Ground</u>	
New Wells						
AMB 4A	104,131.59	51,469.84	380.47	378.3	2.17	10/10/91
AMB 4B	104,145.57	51,482.65	380.38	378.3	2.08	10/10/91
AMB 4D	104,154.68	51,488.95	380.29	378.4	1.89	10/10/91
AMB 7A	103,987.06	51,590.96	373.60	371.6	2.00	10/10/91
AMB 7B	103,972.00	51,590.31	372.95	370.9	2.05	10/10/91
AMB 10A	103,326.35	51,409.98	366.47	364.4	2.07	10/10/91
AMB 10B	103,337.27	51,418.29	366.41	364.3	2.11	10/10/91
AMB 11B	103,154.18	51,919.52	364.57	362.5	2.07	10/10/91
AMB 13AR	103,081.98	51,396.03	365.07	362.9	2.17	10/10/91
ASB 6C	105,736.81	52,655.93	353.56	351.5	2.06	04/02/91
ASB 6TA	105,749.54	52,671.31	352.89	351.0	1.89	04/02/91
BGO 8AR	76,598.83	57,617.47	286.59	284.6	1.99	05/14/91
BGO 9AA	76,975.69	57,371.94	—	—	—	09/24/91
BGO 10AA	76,997.88	56,990.54	300.70	298.8	1.90	09/24/91
BGO 10AR	76,806.02	57,063.76	300.52	298.5	2.02	08/21/91
BGO 10B	76,982.13	56,978.84	300.96	299.0	1.96	09/24/91
BGO 10DR	76,804.76	57,073.65	300.43	298.3	2.13	05/14/91
BGO 12AR	76,803.83	56,259.86	313.39	311.3	2.09	08/21/91
BGO 12CR	76,806.03	56,215.19	314.04	312.0	2.04	08/21/91
BGO 13DR	76,824.72	55,840.35	319.32	317.3	2.02	10/22/91
BGO 14AR	76,351.75	55,788.87	300.72	298.7	2.02	08/21/91
BGO 14CR	76,337.76	55,789.04	300.48	298.4	2.08	08/21/91
BGO 14DR	76,322.14	55,789.41	300.26	298.2	2.06	08/21/91
BGO 29C	75,577.80	54,099.11	264.81	262.8	2.01	01/02/91
BGO 29D	75,592.51	54,099.40	265.47	263.5	1.97	01/02/91
BGO 40D	76,125.82	54,638.61	288.36	286.4	1.96	05/14/91
BGO 41A	76,469.52	55,403.69	300.31	298.3	2.01	08/21/91
BGO 42C	76,404.71	55,522.27	297.90	295.9	2.00	08/21/91
BGO 43A	77,061.37	56,253.37	314.92	312.9	2.02	09/24/91
BGO 43AA	77,066.01	56,268.64	314.31	312.2	2.11	09/24/91
BGO 43C	77,035.15	56,237.16	315.33	313.4	1.93	09/24/91

SURVEYING

Table 7. Survey Information (cont.)

<u>Well ID</u>	<u>SRS Coordinates</u>		<u>Top of Casing Elevation</u>	<u>Ground Elevation</u>	<u>Final Height of Casing Above Ground</u>	<u>Date of Survey</u>
	<u>North</u>	<u>East</u>				
BGO 43D	77,056.68	56,238.79	315.27	313.2	2.07	09/24/91
BGO 44A	76,755.22	57,851.20	285.29	283.0	2.29	07/31/91
BGO 44AA	76,757.02	57,880.51	285.27	283.3	1.97	07/31/91
BGO 44B	76,756.04	57,865.78	285.16	283.1	2.06	07/31/91
BGO 44C	76,757.75	57,894.90	285.57	283.4	2.17	07/31/91
BGO 44D	76,759.48	57,910.04	285.40	283.4	2.00	07/31/91
BGO 45A	75,830.03	54,550.14	278.93	276.9	2.03	05/14/91
BGO 45B	75,840.31	54,563.56	278.57	276.6	1.97	05/14/91
BGO 45C	75,835.02	54,577.43	278.55	276.5	2.05	05/14/91
BGO 45D	75,854.26	54,585.62	278.62	276.6	2.02	05/14/91
BGO 46B	75,012.10	54,444.65	265.41	263.4	2.01	01/02/91
BGO 46C	75,022.16	54,433.91	265.05	263.0	2.05	01/02/91
BGO 46D	75,033.76	54,419.97	265.10	263.1	2.00	01/02/91
BGO 47A	74,728.83	54,914.04	266.86	264.8	2.06	07/31/91
BGO 47C	74,752.02	54,933.36	267.62	265.6	2.02	07/31/91
BGO 47D	74,739.73	54,922.94	267.39	265.4	1.99	07/31/91
BGO 48C	74,599.64	55,124.38	276.64	274.7	1.94	07/31/91
BGO 48D	74,586.43	55,120.99	276.92	275.0	1.92	07/31/91
BGO 49A	73,902.78	56,205.08	271.24	269.1	2.14	07/31/91
BGO 49C	73,917.24	56,202.22	271.10	269.0	2.10	07/31/91
BGO 49D	73,931.47	56,198.84	271.54	269.5	2.04	07/31/91
BGO 50A	75,201.16	54,179.77	255.41	253.5	1.91	01/02/91
BGO 50C	75,190.37	54,197.00	255.50	253.5	2.00	01/02/91
BGO 50D	75,181.32	54,209.14	256.03	254.0	2.03	01/02/91
BGX 1A	76,831.89	58,590.35	291.15	289.1	2.05	07/31/91
BGX 1C	76,820.01	58,599.83	291.27	289.3	1.97	07/31/91
BGX 1D	76,809.54	58,608.63	291.27	289.2	2.07	07/31/91
BGX 2B	77,203.42	58,256.46	291.29	289.2	2.09	05/14/91
BGX 2D	77,192.42	58,265.64	291.14	289.1	2.04	05/14/91
BGX 3D	77,577.03	57,780.13	291.21	289.1	2.11	05/14/91
BGX 4A	77,879.18	57,215.58	290.86	288.8	2.06	05/14/91
BGX 4C	77,886.15	57,202.19	290.77	288.7	2.07	05/14/91
BGX 4D	77,893.92	57,186.16	290.88	288.8	2.08	05/14/91
BGX 5D	78,401.99	57,308.64	285.04	283.0	2.04	05/14/91
BGX 6D	78,740.08	57,524.85	277.02	275.0	2.02	07/31/91
BGX 7D	78,349.26	58,312.75	279.18	277.1	2.08	07/31/91
BGX 8D	77,589.61	58,942.51	278.21	276.1	2.11	07/31/91
BGX 9D	76,935.98	59,522.11	279.39	277.4	1.99	05/14/91
BGX 10D	76,183.33	59,765.48	276.86	274.8	2.06	05/14/91
BGX 11D	75,300.67	59,581.42	276.27	273.8	2.47	07/31/91
BGX 12C	74,427.87	59,675.30	275.12	273.1	2.02	05/14/91
BGX 12D	74,410.88	59,674.29	275.24	273.2	2.04	05/14/91
FSB 0PD	74,549.20	49,849.81	254.67	252.6	2.07	12/19/91
FSB 25PD	74,533.96	49,831.62	254.61	252.3	2.31	12/19/91
FSB 50PD	74,600.86	49,874.58	257.98	255.7	2.28	12/19/91
FSB 98AR	75,362.04	50,105.77	283.98	282.1	1.88	01/02/91
FSB100PD	74,512.47	49,921.14	252.86	250.6	2.26	12/19/91

Table 7. Survey Information (cont.)

<u>Well ID</u>	<u>SRS Coordinates</u>		<u>Top of Casing Elevation</u>	<u>Ground Elevation</u>	<u>Final Height of Casing Above Ground</u>	<u>Date of Survey</u>
	<u>North</u>	<u>East</u>				
FSB121DR	75,151.91	48,429.67	255.53	253.3	2.23	01/02/92
FSB150PD	74,615.81	49,717.87	259.44	257.2	2.24	12/15/91
HMD 1D	78,731.72	56,773.32	264.50	262.7	1.80	02/06/91
HMD 2D	79,665.80	57,269.74	261.10	259.3	1.80	02/06/91
HMD 3D	79,578.71	57,745.22	259.47	257.5	1.97	02/06/91
HMD 4D	79,160.40	58,188.49	250.92	248.5	2.42	02/06/91
HSB 0PC	72,119.31	55,650.03	-	227.8	-	12/16/91
HSB 25PC	72,105.10	55,629.45	229.49	227.2	2.29	12/16/91
HSB 50PC	72,161.14	55,690.25	231.65	229.4	2.25	12/16/91
HSB100PC	72,058.31	55,719.96	229.94	227.6	2.34	12/16/91
HSB124AR	72,202.72	58,531.71	266.81	264.6	2.21	01/02/92
HSB150PC	72,236.38	55,543.86	231.66	229.4	2.26	12/16/91
HXB 4D	60,685.69	52,617.27	306.96	304.4	2.56	02/06/91
HXB 5D	60,587.67	52,510.41	308.82	306.2	2.62	02/06/91
LFW 43B	86,459.18	45,240.48	203.00	201.0	2.00	07/22/91
LFW 43C	86,480.63	45,234.89	202.64	200.5	2.14	07/22/91
LFW 43D	86,443.23	45,244.50	202.89	200.9	1.99	07/22/91
LFW 44D	84,524.39	45,022.57	170.25	168.3	1.95	07/22/91
LFW 45D	84,217.76	45,142.04	166.32	164.4	1.92	07/22/91
LFW 46D	84,054.04	45,162.75	165.13	163.1	2.03	07/22/91
LFW 47C	83,843.92	45,178.63	161.39	159.3	2.09	07/22/91
LFW 47D	83,859.26	45,167.85	161.66	159.7	1.96	07/22/91
LFW 48C	83,877.00	45,430.28	169.33	167.2	2.13	07/22/91
LFW 48D	83,877.48	45,443.73	169.51	167.5	2.01	07/22/91
LFW 55C	83,613.23	45,205.93	156.36	154.1	2.26	07/22/91
LFW 55D	83,601.33	45,189.25	155.43	153.4	2.03	07/22/91
LFW 56D	83,398.01	45,306.56	158.12	155.9	2.22	07/22/91
LFW 57B	83,196.72	45,440.62	165.35	163.4	1.95	07/22/91
LFW 57C	83,200.13	45,411.13	164.99	162.9	2.09	07/22/91
LFW 57D	83,190.24	45,417.37	164.79	162.9	1.89	07/22/91
LFW 58D	82,940.56	45,700.15	167.63	165.6	2.03	07/22/91
LFW 59B	83,027.09	46,047.37	168.05	166.0	2.05	07/22/91
LFW 59C	83,010.98	46,051.98	167.31	165.3	2.01	07/22/91
LFW 59D	83,000.08	46,056.13	167.55	165.3	2.25	07/22/91
LFW 60D	82,531.48	45,722.25	157.07	155.2	1.87	07/22/91
LFW 61C	83,084.43	46,489.61	168.34	166.1	2.24	07/22/91
LFW 61D	83,089.13	46,471.13	168.27	166.4	1.87	07/22/91
LFW 62B	83,001.21	45,915.48	164.89	162.8	2.09	07/22/91
LFW 62C	83,012.74	45,906.70	165.47	163.4	2.07	07/22/91
LFW 62D	82,991.58	45,922.50	164.79	162.6	2.19	07/22/91
MHM 9	102,756.65	48,915.93	368.01	366.3	1.71	01/08/92
MHM 10	102,777.00	48,916.50	368.33	367.3	1.03	01/08/92
MHM 11A	102,798.72	48,916.38	370.49	369.0	1.49	01/08/92
MHM 11B	102,796.40	48,912.55	370.77	368.8	1.97	01/08/92
MHM 12	102,789.23	48,868.79	370.20	367.8	2.40	01/08/92
MHM 13	102,845.50	48,906.32	372.92	369.7	3.22	01/08/92
MHM 14	102,803.60	48,927.89	371.57	368.5	3.07	01/08/92

SURVEYING

Table 7. Survey Information (cont.)

<u>Well ID</u>	<u>SRS Coordinates</u>		<u>Top of Casing Elevation</u>	<u>Ground Elevation</u>	<u>Final Height of Casing Above Ground</u>	<u>Date of Survey</u>
	<u>North</u>	<u>East</u>				
MHM 15	102,828.27	48,964.73	371.12	368.8	2.32	01/08/92
MHM 16	102,865.46	48,948.52	373.16	370.0	3.16	01/08/92
MHM 17	102,909.61	48,930.33	371.62	368.2	3.42	01/08/92
MHT 9B	102,814.28	49,031.84	369.26	367.3	1.96	08/20/91
MHT 10B	102,894.88	49,026.04	370.83	368.7	2.13	08/20/91
MHT 11C	102,854.00	48,846.07	368.25	366.2	2.05	08/20/91
MHT 12C	102,844.83	49,061.70	370.18	367.9	2.28	08/20/91
MHT 13D	102,800.34	48,877.10	370.55	368.4	2.15	08/20/91
MHT 14D	102,785.05	48,885.73	370.96	368.6	2.36	08/20/91
MHV 6	102,780.08	48,891.53	368.4	368.1	0.30	08/20/91
MHV 7	102,811.46	48,878.12	370.27	368.2	2.07	08/20/91
MSB 83B	108,426.72	52,421.36	371.97	370.0	1.97	01/16/91
MSB 83D	108,418.37	52,391.17	371.71	369.5	2.21	01/16/91
MSB 83TA	108,416.33	52,410.93	371.82	369.8	2.02	01/16/91
MVC 1	104,275.17	49,331.45	372.98	371.0	1.98	02/19/91
MVC 2	101,969.99	50,060.20	348.62	346.5	2.12	02/18/91
MVC 3	101,833.92	50,120.41	344.70	342.7	2.00	02/18/91
MVE 1	104,319.05	49,357.24	372.79	370.7	2.09	02/19/91
MVE 2	104,318.48	49,307.23	372.88	370.6	2.28	02/19/91
MVE 3	104,407.01	49,332.22	371.88	336.4	35.48	02/19/91
MVE 4	102,009.10	49,964.64	350.00	347.5	2.50	02/18/91

Wells With Changes

BGO 7D	76,494.45	57,917.22	286.98	285.2	1.78	10/12/87
BGO 8C	76,579.19	57,618.65	287.87	285.8	2.07	10/12/87
BGO 8D	76,588.77	57,617.84	287.82	285.6	2.22	10/12/87
BGO 9AA	76,975.69	57,371.94	284.81	282.8	2.01	09/24/91
FSB121D	75,167.96	48,422.42	256.11	254.0	2.11	12/18/91
HSB146A	70,478.89	58,454.00	251.57	249.5	2.07	01/09/91
KRB 16D	54,887.99	40,390.32	268.40	266.5	1.90	10/22/91
KRB 17D	55,446.43	39,991.87	284.21	282.1	2.11	10/22/91
KRB 18D	55,563.74	40,084.91	282.55	280.8	1.75	10/22/91
KRB 19D	55,620.93	40,207.37	281.67	279.8	1.87	10/22/91
LFW 6	84,537.78	45,241.22	171.65	170.2	1.45	04/29/91
LFW 7	84,310.25	45,318.87	171.15	169.6	1.55	04/29/91
LFW 8	84,032.55	45,415.28	170.54	169.0	1.54	04/29/91
LFW 10A	84,369.58	45,935.57	175.49	174.2	1.29	04/29/91
LFW 16	84,748.90	45,852.60	178.81	177.2	1.61	04/29/91
LFW 17	84,602.75	45,607.32	177.84	176.5	1.34	04/29/91
LFW 18	84,577.29	45,459.35	174.99	174.1	0.89	04/29/91
LFW 19	84,817.16	45,135.39	176.72	175.0	1.72	04/29/91
LFW 20	85,262.59	45,582.89	180.52	179.0	1.52	04/29/91
LFW 21	84,178.33	46,149.36	175.56	173.9	1.66	04/29/91
LFW 22	84,223.58	46,325.22	174.22	172.4	1.82	04/29/91
LFW 23	84,251.27	46,456.09	171.76	170.1	1.66	04/29/91
LFW 24	84,544.19	46,520.79	171.30	169.5	1.80	04/29/91

Table 7. Survey Information (cont.)

<u>Well ID</u>	<u>SRS Coordinates</u>		<u>Top of Casing Elevation</u>	<u>Ground Elevation</u>	<u>Final Height of Casing Above Ground</u>	<u>Date of Survey</u>
	<u>North</u>	<u>East</u>				
LFW 25	84,967.16	46,425.66	174.74	173.2	1.54	04/29/91
LFW 26	84,654.55	45,633.78	186.51	184.2	2.31	04/29/91
LFW 27	85,839.08	45,596.11	189.16	186.9	2.26	04/29/91
LFW 28	86,079.60	45,555.31	192.38	190.1	2.28	04/29/91
LFW 29	86,372.72	45,503.27	195.28	192.9	2.38	04/29/91
LFW 30	86,318.42	45,170.92	210.02	207.7	2.32	04/29/91
LFW 31	86,262.17	44,869.02	229.34	227.0	2.34	04/29/91
LFW 32	85,836.84	44,935.93	223.67	221.3	2.37	04/29/91
LFW 33	85,633.82	44,973.00	213.73	211.4	2.33	04/29/91
LFW 34	85,409.52	45,016.93	201.02	198.7	2.32	04/29/91
LFW 35	85,337.35	45,378.75	183.71	181.4	2.31	04/29/91
LFW 36	83,535.48	45,582.32	170.44	168.3	2.14	04/29/91
LFW 37	83,113.19	45,667.68	169.87	167.8	2.07	04/29/91
LFW 38	83,172.29	46,018.51	170.30	168.5	1.80	04/29/91
LFW 39	83,213.12	46,218.48	171.38	169.2	2.18	04/29/91
LFW 40	83,248.82	46,395.13	171.04	169.2	1.84	04/29/91
LFW 41	83,304.94	46,626.87	170.48	168.3	2.18	04/29/91
LFW 42	83,776.21	46,532.94	170.12	168.2	1.92	04/29/91

Notes

8. SITE INDEX BY WELL SERIES

<u>Well Series</u>	<u>Site Description</u>
ABP	A-Area Metals Burning Pit
ABW	A Area near Firing Range: Background Well
AC	A/M Area: Cluster Perimeter Wells and Plume Definition Wells
ACB	A-Area Coal Pile Runoff Containment Basin
AMB	Metallurgical Laboratory Seepage Basin
AOB	Motor Shop Oil Basin
ARP	A-Area Burning/Rubble Pits
ASB	Savannah River Laboratory (SRL) Seepage Basins
BG	Burial Grounds
BGO	Burial Grounds Perimeter
BGX	E-Area Vaults Near the Burial Grounds
BRD	Road A Chemical Basin (Baxley Road)
BRR	Burma Road Rubble Pit
BTP	Proposed Sanitary Landfill, Site B
CBR	Central Shops Burning/Rubble Pit South of the Ford Building Seepage Basin
CCB	C-Area Coal Pile Runoff Containment Basin
CDB	C-Area Disassembly Basin
CMP	Chemicals, Metals, and Pesticides (CMP) Pits
CRP	C-Area Burning/Rubble Pit
CSA	Hydrofluoric Acid Spill Area
CSB	C-Area Reactor Seepage Basins
CSD	Central Shops Diesel Spill Site: Characterization and Remediation Wells
CSO	Fire Department Training Facility
CSR	Central Shops Burning/Rubble Pits
DBP	D-Area Burning/Rubble Pits
DCB	D-Area Coal Pile Runoff Containment Basin and Ash Basins
DOB	D-Area Oil Disposal Basin
F	F-Area Seepage Basins
FAC	F-Area Acid/Caustic Basin
FAL	F-Area A Line
FBP	F-Area Burning/Rubble Pits
FCA	F-Area Canyon Building
FCB	F-Area Coal Pile Runoff Containment Basin
FET	F-Area Effluent Treatment Cooling Water Basin
FNB	Old F-Area Seepage Basin
FSB	F-Area Seepage Basins
FSB 1TA Well	F-Area Seepage Basins: Production Well

SITE INDEX BY WELL SERIES

<u>Well Series</u>	<u>Site Description</u>
FSS	F-Area Sludge Land Application Site
FTF	F-Area Tank Farm
GBW	Near Hawthorne Fire Tower: Background Well
H	H-Area Seepage Basins
HAC	H-Area Acid/Caustic Basin
HAP	H-Area Auxiliary Pump Pit
HCA	H-Area Canyon Building
HCB	H-Area Coal Pile Runoff Containment Basin
HET	H-Area Effluent Treatment Cooling Water Basin
HMD	Hazardous Waste/Mixed Waste Disposal Facility
HR3	Old H-Area Retention Basin
HR8	H-Area Retention Basin
HSB	H-Area Seepage Basins
HSB 1TB Well	H-Area Seepage Basins: Production Well
HSS	H-Area Sludge Land Application Site
HTF	H-Area Tank Farm
HWS	Hazardous Waste Storage Facility
HXB	Ford Building Seepage Basin
IDB	Interim Waste Technology Site B: Characterization Wells
IDP	Interim Waste Technology Site P: Characterization Wells
IDQ	Interim Waste Technology Site Q: Characterization Wells
K	K-Area Wind Tower at B Road: Piezometers
KAB	K-Area Ash Basin
KAC	K-Area Acid/Caustic Basin
KCB	K-Area Coal Pile Runoff Containment Basin
KDB	K-Area Disassembly Basin
KDT	K-Area Diesel Tank
KRB	K-Area Retention Basin
KRP	K-Area Burning/Rubble Pit
KSB	K-Area Reactor Seepage Basin
KSS	K-Area Sludge Land Application Site
KWL	K-Area Water Level Observation Wells
LAC	L-Area Acid/Caustic Basin
LAW	L-Area: Research Wells
LCO	L-Area Oil and Chemical Basin
LDB	L-Area Disassembly Basin
LFW	Sanitary Landfill
LRP	L-Area Burning/Rubble Pit
LSB	L-Area Reactor Seepage Basin
LWN	Proposed New Sanitary Landfill, Site N
MCB	Miscellaneous Chemical Basin
MGA	Series A, Burial Grounds Grid
MGC	Series C, Burial Grounds Grid
MGE	Series E, Burial Grounds Grid
MGG	Series G, Burial Grounds Grid

SITE INDEX BY WELL SERIES

<u>Well Series</u>	<u>Site Description</u>
MSB	M-Area Hazardous Waste Management Facility (HWMF)
MWD	Potential Hazardous Waste/Mixed Waste Disposal Facility
NBG	Between the F-Area Canyon Building and the Naval Fuel Material Facility
NPM	Potential New Production Reactor Site (near Central Shops): Characterization Wells
P	B Area: Microbiology Wells [P 29 cluster] F Area: Microbiology Wells [P 28 cluster] North of H Area [P 14 cluster] TNX Area: Background Wells [P 26 cluster]
PAC	P-Area Acid/Caustic Basin
PCB	P-Area Coal Pile Runoff Containment Basin
PDB	P-Area Disassembly Basin
PRP	P-Area Burning/Rubble Pit
PSB	P-Area Reactor Seepage Basins
PSS	Par Pond Sludge Land Application Site
RAC	R-Area Acid/Caustic Basin
RDB	R-Area Disassembly Basin
RRP	R-Area Burning/Rubble Pits
RSA	Series A, R-Area Reactor Seepage Basins
RSB	Series B, R-Area Reactor Seepage Basins
RSC	Series C, R-Area Reactor Seepage Basins
RSD	Series D, Between R-Area Reactor Seepage Basins and R-Area Disassembly Basin
RSE	Series E, R-Area Reactor Seepage Basins
RSF	Series F, R-Area Reactor Seepage Basins
RWM	M Area: Recovery Wells (also used for plume definition)
SBG	S-Area Defense Waste Processing Facility (DWPF): Background Wells
SCA	S-Area Vitrification Building
SLP	S-Area Low Point Pump Pit
SRW	Silverton Road Waste Site
SSS	Sewage Sludge Application Sites 40-Acre Hardwood Site Kato Road Site Lower Kato Road Site Orangeburg Site Sandy (Lucy) Site Road F Site Second Par Pond Borrow Pit
TBG	TNX Burying Ground
TNX	TNX Area: Assessment Wells
XSB	Old TNX Seepage Basin
YSB	New TNX Seepage Basin
YSC	Y-Area Waste Solidification and Disposal Facility

SITE INDEX BY WELL SERIES

<u>Well Series</u>	<u>Site Description</u>
Z	F Area
	H Area
ZBG	Z-Area Saltstone Facility: Background Wells
ZDT	Z-Area Low Point Drain Tank
ZW	F Area
	H Area
241-H	H-Area Tank Farm, between Tanks 9 and 11

GLOSSARY

aerate. To supply or charge with air.

aerated sample. Groundwater sample supplied or charged with air. Aeration can occur naturally or during well pumping.

auger method. Drilling accomplished by the rotary action of screw-type edges forced into the earth by downward pressure.

bail. To remove water from a well by lowering a container into the water, allowing it to fill with water, and then removing it from the well.

CERCLA. Comprehensive Environmental Response, Compensation, and Liability Act.

continuous wireline coring. A soil sampling procedure using the mud rotary method in which a double-tube assembly is used to advance the hole, with the sample-bearing inner tube being periodically withdrawn by wireline (a steel cable and latching mechanism).

CMP. Chemicals, metals, and pesticides.

CS. Carbon steel, a material used for well casings.

CSWE RFI/RI Program. Central Shops Works Engineering RCRA Facility Investigation/Remedial Investigation Program.

DOE. United States Department of Energy.

DPSOP. DuPont Standard Operating Procedure; used in numbering documents and forms generated during E. I. du Pont de Nemours & Company's management of the Savannah River Plant (now Savannah River Site).

DWPF. Defense Waste Processing Facility at SRS.

EID. Environmental Information Document.

EIS. Environmental Impact Statement.

EMS. Environmental Monitoring Section of the Environmental Protection Department at SRS.

EMTC. Environmental Monitoring and Testing Corporation of New Ellenton, SC.

GLOSSARY

EPA. United States Environmental Protection Agency.

EPD. Environmental Protection Department at SRS.

EPD/EMS. Environmental Protection Department's Environmental Monitoring Section.

GECS. Graves Environmental and Geotechnical Services, Inc. of Jackson, SC.

Ge-Hy. Ge-Hy Sampling of New Ellenton, SC.

geophysical logging. Process of acquiring the geophysical characteristics (naturally occurring gamma radiation emission, electrical resistance, seismic properties, etc.) of litho-stratigraphic units within wells for correlation and facies modeling.

gpm. Gallons per minute.

grab sample. A sample collected by lowering a glass or plastic bottle below the water surface to collect water samples.

grout. Fluid mixture of cement and water or mixture of cement, sand, and water used to hold the well casing in place within a borehole and prevent caving and fluid migration between strata; also used to plug abandoned wells.

Guale. Guale, Ltd. of Augusta, GA, a program management firm.

hollow-stem augering. A drilling method in which augers with hollow stems are used to facilitate sample collection. This method, used to drill through unconsolidated materials to depths of less than 150 ft, prevents sloughing while collecting soil samples.

HWMF. Hazardous Waste Management Facility.

hydropunch. A sampling device for collecting chemically representative groundwater samples without the installation, development, and sampling of a groundwater monitoring well.

IWP. Industrial Waste Permit.

lithology. The physical character of a rock, generally as determined megascopically or with the aid of a low-power magnifier.

msl. Mean sea level.

MWMF. Mixed Waste Management Facility.

mud rotary method. The drilling method in which drilling fluid (mud) is pumped down the drill rods and through the bit and circulated back to the surface, carrying drill cuttings through an annular space between the rods and the wall of the borehole. The mud stabilizes the borehole and allows cuttings to be brought to the surface.

NRDC. Natural Resources Defense Council.

GLOSSARY

pellets (bentonite). Dried, compressed pellets of bentonite clay. The clay, which when hydrated expands to several times its dry volume, is used to form impermeable seals at the top of well screen zones, preventing the contamination of a well screened in a specific aquifer by water from overlying aquifers.

pH. pH units.

piezometer. Well used to measure the potentiometric surface of the groundwater.

plume. A volume of contaminated air or water originating at a point-source emission (e.g., a smokestack) or a waste source (e.g., a hazardous-waste disposal site).

pump. To remove water from a well by using a stationary device to force water up a tube or pipe to the top of the well.

purge. To remove water from a well prior to sampling, generally by pumping or bailing.

PVC. Polyvinyl chloride.

QA. Quality assurance.

RCRA. Resource Conservation and Recovery Act.

RCRA site. Solid-waste management unit under RCRA regulation.

ream. To widen a borehole after coring for the purpose of setting a new well.

Resource Conservation and Recovery Act (RCRA). Federal legislation that regulates the transport, treatment, and disposal of solid and hazardous wastes.

RFI Program. RCRA Facility Investigation Program; EPA-regulated investigation of a solid-waste management unit with regard to its potential impact on the environment.

RFI/RI Program. RCRA Facility Investigation/Remedial Investigation Program; at SRS, an expansion of the RFI Program to include CERCLA and hazardous-substance regulations.

SCDHEC. South Carolina Department of Health and Environmental Control.

SCHWMR. South Carolina Hazardous Waste Management Regulations.

screen zone. In well construction, the section of a well casing that contains the screen or perforated pipe that allows water to enter the well.

SEC. Serrine Environmental Consultants of Greenville, SC.

seepage basin. An excavation that receives wastewater. Insoluble materials settle out on the floor of the basin, and soluble materials seep with the water through the soil column, where they are removed partially by ion exchange with the soil. Designed to prevent overflow or surface runoff.

GLOSSARY

settling basin. A temporary holding basin (excavation) that receives wastewater that subsequently is discharged.

site custodian. WSRC employee responsible for the site being monitored.

SMC. Surveying and Mapping Consultants of Tigerville, SC.

split-spoon sampling. A sampling technique in which a two-piece hollow barrel is driven into the bottom of the borehole in specified intervals by dropping a weight on the drill rods and retrieving the samples.

SRL. Savannah River Laboratory at SRS.

SRS. Savannah River Site.

SS. Stainless steel, a material used for well casings.

sump. The lowermost section of casing in a well, designed to collect sediments.

tank farm. An installation of interconnected underground tanks for storage of high-level radioactive liquid wastes.

TOC. Top of casing, the elevation of the top of the well casing used as a reference for water depth measurements.

turbidity. A measure of the concentration of sediment or suspended particles in solution.

(U). Unclassified.

μ S/cm. Microsiemens per centimeter.

vadose zone. Unsaturated zone located above the water table.

wash cuttings. Samples of geological material collected from the stream of drill fluid flowing out of a borehole during rotary drilling; see mud rotary method.

WEGS. Westinghouse Environmental and Geotechnical Services of Columbia, SC.

well volume. Volume of water inside the well casing between the static water level and the bottom of the screen zone.

WSRC. Westinghouse Savannah River Company.

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Notes

INDEX OF WELL INFORMATION

INTRODUCTION

This section contains an index of well series referenced in the EPD/EMS quarterly reports for 1986, 1987, 1988, 1989, and 1990. The index lists the quarterly reports, a site index by well series, and a quarterly report index by well series that includes the well series, the quarterly report section and date, and the page number for each reference. Please note the following abbreviations: **1Q86** = first quarter 1986; **2Q86** = second quarter 1986; and so forth.

EPD/EMS is responsible for monitoring for constituents in the groundwater at approximately 135 waste sites at SRS. EPD/EMS has published a description of its groundwater monitoring program for each quarter since the beginning of 1986. A list of the quarterly reports included in this index follows.

<u>Report</u>	<u>Document Number</u>
Fourth Quarter 1990	ESH-EMS-90-0131
Third Quarter 1990	ESH-EMS-900132
Second Quarter 1990	ESH-EMS-900133
First Quarter 1990	ESH-EMS-900134
Fourth Quarter 1989	ESH-EMS-890046
Third Quarter 1989	ESH-EMS-890045
Second Quarter 1989	ESH-EMS-890044
First Quarter 1989	ESH-EMS-890043
First Quarter 1988	HPR-88-238
Fourth Quarter 1987	HPR-88-098
Third Quarter 1987	HPR-87-339
Second Quarter 1987	HPR-87-286
First Quarter 1987	HPR-87-158
Fourth Quarter 1986	HPR-87-072
Third Quarter 1986	HPR-87-002
Second Quarter 1986	HPR-86-226
First Quarter 1986 (revised)	HPR-86-158

INDEX OF WELL INFORMATION

SITE INDEX BY WELL SERIES

The following list includes all the well series listed in the index and their corresponding site descriptions.

<u>Well Series</u>	<u>Site</u>
ABG	Incorrectly reported; should be ABW
ABP	A-Area Metals Burning Pit
ABW	A-Area Background Well Near Firing Range
AC	A-Area Cluster Perimeter Wells M-Area Plume Definition Wells
ACB	A-Area Coal Pile Runoff Containment Basin
ACP	Series renamed; should be MCB
AMB	Metallurgical Laboratory Seepage Basin
AMH	
AOB	Motor Shop Oil Basin
ARP	A-Area Burning/Rubble Pits
ASB	Savannah River Laboratory (SRL) Seepage Basins
ASP	Z Area
BG	Burial Grounds Burial Grounds Grid Wells Just North of the Burial Grounds Just Outside the Fence Surrounding the Burial Grounds Burial Grounds Perimeter Wells
BGO	
BGW	
BH	S-Area Defense Waste Processing Facility (DWPF) Boreholes and Piezometers
BRD	Road A Chemical Basin (Baxley Road)
BRR	Burma Road Rubble Pit
BTP	Bentonite Test Pit Wells, Across From the Entrance to the Burial Grounds on Road E
CBR	Central Shops Burning/Rubble Pit South of the Ford Building Seepage Basin
CCB	C-Area Coal Pile Runoff Containment Basin
CCP	C-Area Coal Pile Study
CDB	C-Area Disassembly Basin
CMP	Chemicals, Metals, and Pesticides (CMP) Pits
CRP	C-Area Burning/Rubble Pit
CSA	Hydrofluoric Acid Spill Area
CSB	C-Area Reactor Seepage Basins
CSD	Central Shops Diesel Spill Characterization and Remediation Wells
CSO	Fire Department Training Facility
CSR	Central Shops Burning/Rubble Pits
D	
DBP	D-Area Burning/Rubble Pits
DCB	D-Area Coal Pile Runoff Containment Basin and Ash Basins
DOB	D-Area Oil Disposal Basin
DPB	Incorrectly reported; should be DBP
DRB	Deep Rock Borings
F	F-Area Seepage Basins
FAC	F-Area Acid/Caustic Basin
FAL	F-Area A Line
FBP	F-Area Burning/Rubble Pits

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<u>Well Series</u>	<u>Site</u>
FC	F-Area Hydrology Cluster
FCA	F-Area Canyon Building
FCB	F-Area Coal Pile Runoff Containment Basin
FET	F-Area Effluent Treatment Cooling Water Basin
FMC	F-Area Seepage Basins Vertical Radionuclide Distribution Wells
FNB	Old F-Area Seepage Basin
FSB	F-Area Seepage Basins
FSS	F-Area Sludge Land Application Site
FTF	F-Area Tank Farm
GBW	Background Well Near Hawthorne Fire Tower
GCD	Burial Grounds
H	H-Area Seepage Basins
HAC	H-Area Acid/Caustic Basin
HAP	H-Area Auxiliary Pump Pit
HC	H-Area Hydrology Cluster
HCA	H-Area Canyon Building
HCB	H-Area Coal Pile Runoff Containment Basin
HCC	H-Area Canyon Building
HET	H-Area Effluent Treatment Cooling Water Basin
HP	Upper Tank Farm
HPT	Aquifer Characterization Test Wells in H Area Between the Burial Grounds and Road 4
HR3	Old H-Area Retention Basin
HR8	H-Area Retention Basin
HSB	H-Area Seepage Basins
HSC	Incorrectly reported; should be HSB
HSS	H-Area Sludge Land Application Site
HTF	H-Area Tank Farm
HWB	Incorrectly reported; should be HWS
HWS	Hazardous Waste Storage Facility
HXB	Ford Building Seepage Basin
IDB	Intermediate Depth Burial Wells
IDB	Interim Waste Technology Site Characterization Wells, Site B
IDP	Interim Waste Technology Site Characterization Wells, Site P
IDQ	Interim Waste Technology Site Characterization Wells, Site Q
K	K-Area Wind Tower Piezometers at B-Road
KAB	K-Area Ash Basin
KAC	K-Area Acid/Caustic Basin
KCB	K-Area Coal Pile Runoff Containment Basin
KDB	K-Area Disassembly Basin
KDT	K-Area Diesel Tank
KRB	K-Area Retention Basin
KRP	K-Area Burning/Rubble Pit
KSB	K-Area Reactor Seepage Basin
KSS	K-Area Sludge Land Application Site
LAC	L-Area Acid/Caustic Basin
LAW	L-Area Research Wells
LCO	L-Area Oil and Chemical Basin
LDB	L-Area Disassembly Basin
LFW	Sanitary Landfill
LRP	L-Area Burning/Rubble Pit
LSB	L-Area Reactor Seepage Basin

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<u>Well Series</u>	<u>Site</u>
M	
M12	Series renamed; should be NPM
MCB	Miscellaneous Chemical Basin
MGA	Series A, Monitoring Grid Wells for Burial Grounds
MGC	Series C, Monitoring Grid Wells for Burial Grounds
MGE	Series E, Monitoring Grid Wells for Burial Grounds
MGG	Series G, Monitoring Grid Wells for Burial Grounds
MHM	Geophysical Test Holes for the Horizontal Well Characterization Study in M Area
MHT	Monitoring Wells for the Horizontal Well Characterization Study in M Area
MHV	Vapor Probe Wells for the Horizontal Well Characterization Study for M Area
MSB	M-Area Hazardous Waste Management Facility (HWMF) M-Area Plume Definition Wells
MVC	M-Area Vadose Zone Vapor Probes
MVE	M-Area Vadose Zone Vapor Extraction Wells
MWD	Hazardous Waste/Mixed Waste Disposal Facility
N13	Series renamed; should be NPN
NBG	Wells Between the F-Area Canyon Building and the Naval Fuel Material Facility
NPM	Preliminary Hydrogeologic Evaluation of Potential New Production Reactor Site Characterization Wells
NPN	Preliminary Hydrogeologic Evaluation of Potential New Production Reactor Site Characterization Wells
NTN	Preliminary Hydrogeologic Evaluation of Potential New Production Reactor Site Characterization Wells
NTS	Preliminary Hydrogeologic Evaluation of Potential New Production Reactor Site Characterization Wells
NTW	Preliminary Hydrogeologic Evaluation of Potential New Production Reactor Site Characterization Wells
OBS	Z Area
P	F-Area Microbiology Wells TNX-Area Background Wells TNX-Area Pump Test Wells for the Congaree Formation (P 26AP) and for the Water Table (P 26DP)
PAC	P-Area Acid/Caustic Basin
PCB	P-Area Coal Pile Runoff Containment Basin
PDB	P-Area Disassembly Basin Production Wells
PRP	P-Area Burning/Rubble Pit
PSB	P-Area Reactor Seepage Basins
PSS	Par Pond Sludge Land Application Site
PW	Z Area
PZ	Z-Area Piezometer Wells
R	
RAC	R-Area Acid/Caustic Basin
RCP	
RDB	R-Area Disassembly Basin
RRP	R-Area Burning/Rubble Pits
RSA	Series A, R-Area Reactor Seepage Basins
RSB	Series B, R-Area Reactor Seepage Basins
RSC	Series C, R-Area Reactor Seepage Basins

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<u>Well Series</u>	<u>Site</u>
RSD	Series D, Between R-Area Reactor Seepage Basins and R-Area Disassembly Basin
RSE	Series E, R-Area Reactor Seepage Basins
RSF	Series F, R-Area Reactor Seepage Basins
RSS	S-Area Defense Waste Processing Facility (DWPF)
RSSF	Incorrectly reported; should be RSS
RWM	M-Area Recovery Wells (also used for plume definition)
S	Wells Predating the Construction of SRS
SB	Special Burial Wells in the Burial Grounds
SBG	S-Area Background Wells
SCA	S-Area Vitrification Building
SDS	Z-Area Saltstone Disposal Site Facility
SLP	S-Area Low Point Pump Pit
SLW	New Sanitary Landfill Piezometer Wells
SRW	Silverton Road Waste Site
SSS	Sewage Sludge Application Sites
T18N	Series renamed; should be NTN
T18S	Series renamed; should be NTS
TBG	TNX Burying Ground
TNX	TNX-Area Assessment Wells
WW	Burial Grounds Expansion Wells
XSB	Old TNX Seepage Basin
YSB	New TNX Seepage Basin
YSC	Y-Area Waste Solidification and Disposal Facility
Z	F Area H Area
ZBG	Z-Area Background Wells
ZDT	Z-Area Low Point Drain Tank
ZW	F Area H Area
241-H	H-Area Tank Farm, Between Tanks 9 and 11

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ABG Series (Incorrectly reported; should be ABW)

Corrections: 1Q87, 9
Well Maintenance: 1Q86, 4

ABP Series

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3Q88, 5; 4Q88, 4; 1Q89, 5; 2Q89, 5; 3Q89, 5; 4Q89, 4; 1Q90, 6;
2Q90, 5; 3Q90, 6; 4Q90, 5
Corrections: 1Q89, 19, 25; 1Q90, 15-17
Well Maintenance: 2Q87, 12; 3Q87, 12; 2Q88, 17; 1Q89, 31; 3Q90, 21
Well Construction: 2Q89, 18, 19; 3Q89, 22-23
Well Stabilization: 3Q89, 27
Surveying: 3Q89, 35; 4Q89, 31
Sample Scheduling: 3Q88, 36; 1Q89, 75; 3Q89, 40; 4Q90, 55
Sample Collection: 3Q86, 22; 4Q86, 31; 1Q87, 30; 2Q87, 27; 3Q87, 31; 4Q87, 30; 1Q88,
85; 2Q88, 53; 3Q88, 41; 4Q88, 51; 1Q89, 77; 3Q89, 43; 4Q89, 39;
1Q90, 65; 2Q90, 47; 3Q90, 55; 4Q90, 55
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Quality Control Samples: 1Q90, 105; 2Q90, 91; 3Q90, 111, 123-124, 126-127; 4Q90, 101,
112-113
Water-Level Data: 4Q88, 292; 1Q89, 426; 2Q89, 418; 3Q89, 446; 4Q89, 442; 1Q90, 595;
2Q90, 559; 3Q90, 693; 4Q90, 525

ABW Series

Executive Summary: 3Q86, 5; 4Q86, 4; 1Q87, 5; 2Q87, 4; 3Q87, 6; 4Q87, 4; 3Q88, 4;
1Q89, 5; 3Q89, 5; 4Q89, 4
Corrections: 1Q87, 9; 1Q89, 19, 21, 24
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Sample Scheduling: 3Q88, 36
Sample Collection: 3Q86, 22; 4Q86, 31; 1Q87, 30; 2Q87, 27; 3Q87, 31; 4Q87, 30; 1Q88,
85; 2Q88, 53
Sample Analysis: 1Q87, 56
Water-Level Data: 4Q88, 292; 1Q89, 426; 2Q89, 418; 3Q89, 446; 4Q89, 442; 1Q90, 595;
2Q90, 560; 3Q90, 693; 4Q90, 526

AC Series

Executive Summary: 1Q89, 5; 2Q89, 5; 3Q89, 5; 4Q89, 4; 1Q90, 6; 2Q90, 5; 3Q90, 6;
4Q90, 5
Corrections: 1Q89, 15, 19, 21, 24
Well Maintenance: 3Q90, 22
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47; 3Q90, 55; 4Q90, 55
Sample Analysis: 2Q90, 68
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Water-Level Data: 4Q88, 293–294; 1Q89, 426; 2Q89, 418; 3Q89, 446; 4Q89, 442; 1Q90, 595–596; 2Q90, 560; 2Q90, 68; 3Q90, 693–694; 4Q90, 526

ACB Series

Executive Summary: 1Q87, 5; 2Q87, 4; 3Q87, 6; 1Q88, 7; 3Q88, 4; 1Q89, 5; 2Q89, 5; 3Q89, 5; 4Q89, 4; 1Q90, 6; 2Q90, 5; 3Q90, 6; 4Q90, 5

Corrections: 1Q89, 19; 3Q90, 6

Well Maintenance: 2Q87, 12; 2Q88, 17; 4Q88, 13; 3Q89, 15; 4Q89, 13; 3Q90, 22

Sample Scheduling: 2Q88, 52; 3Q88, 36; 1Q89, 75

Sample Collection: 3Q86, 22; 4Q86, 31; 1Q87, 30; 2Q87, 27; 3Q87, 31; 4Q87, 30; 1Q88, 85; 2Q88, 53; 3Q88, 41; 4Q88, 51; 1Q89, 77; 2Q89, 43; 4Q89, 39; 2Q90, 47; 3Q90, 76, 80, 91–92; 4Q90, 55

Sample Analysis: 1Q87, 55–56; 3Q87, 51–52; 1Q88, 121; 2Q88, 70, 91; 3Q88, 52, 77, 82; 1Q89, 132–133; 2Q89, 106–108; 1Q90, 87–89; 2Q90, 68–69; 3Q90, 76, 80, 91–92

Quality Control Samples: 3Q90, 111, 125–126

Water-Level Data: 4Q88, 294; 1Q89, 426; 2Q89, 418; 3Q89, 446–447; 4Q89, 442–443; 1Q90, 596; 2Q90, 560; 3Q90, 694; 4Q90, 526

ACP Series (Series renamed; should be MCB)

Corrections: 1Q87, 9

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AMB Series

Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 6; 2Q87, 5; 3Q87, 6; 4Q87, 5; 1Q88, 7; 2Q88, 4; 3Q88, 5; 4Q88, 4; 1Q89, 6; 2Q89, 5; 3Q89, 6; 4Q89, 4; 1Q90, 6; 2Q90, 5; 3Q90, 6; 4Q90, 5

Corrections: 1Q89, 14, 16, 25; 1Q90, 16, 18

Well Abandonment: 3Q88, 12; 3Q90, 19

Well Maintenance: 2Q87, 12

Well Construction: 4Q88, 16–17; 4Q89, 16–18

Well Stabilization: 4Q88, 25–26; 4Q89, 25–27

Surveying: 4Q88, 47; 4Q89, 31

Sample Scheduling: 3Q88, 36, 40; 4Q88, 50; 1Q89, 76; 2Q89, 42; 3Q89, 38; 4Q89, 35

Sample Collection: 3Q86, 22; 4Q86, 31; 1Q87, 30; 2Q87, 27; 3Q87, 31; 4Q87, 30; 1Q88, 85; 2Q88, 53; 4Q88, 51; 1Q89, 77–78; 2Q89, 43; 3Q89, 43; 4Q89, 39–40; 1Q90, 65–66; 2Q90, 48; 3Q90, 56; 4Q90, 56

Sample Analysis: 3Q86, 33; 4Q86, 40; 1Q87, 55; 2Q87, 37, 43; 3Q87, 52; 4Q87, 56, 78; 1Q88, 121; 2Q88, 70, 93; 4Q88, 92; 1Q89, 132–133; 2Q89, 106–108, 114; 3Q89, 58, 68, 92–93, 96–97; 4Q89, 101; 1Q90, 84–86, 88–89, 93; 2Q90, 68–69, 72; 3Q90, 76, 78–81, 85, 87, 90, 95; 4Q90, 74, 77–79, 85, 90

Quality Control Samples: 1Q90, 105, 113; 2Q90, 91, 102, 104–105, 110–111; 3Q90, 111, 125–126; 4Q90, 101, 110, 112–113

Water-Level Data: 4Q88, 294–295; 1Q89, 426–427; 2Q89, 418–419; 3Q89, 447; 4Q89, 443; 1Q90, 596; 2Q90, 560–561; 3Q90, 694; 4Q90, 526–527

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AMH Series

Surveying: 4Q88, 47

AOB Series

Executive Summary: 3Q86, 5; 4Q86, 4; 1Q87, 6; 2Q87, 4; 3Q87, 6; 4Q87, 4; 1Q88, 7;
3Q88, 5; 4Q88, 4; 1Q89, 6; 2Q89, 5; 3Q89, 6; 4Q89, 4; 1Q90, 7;
2Q90, 6; 3Q90, 6; 4Q90, 5
Corrections: 1Q89, 20, 25; 1Q90, 17
Well Maintenance: 1Q88, 19; 2Q88, 17; 4Q88, 13; 4Q89, 13
Well Construction: 2Q89, 19
Well Stabilization: 3Q89, 28
Surveying: 2Q89, 37; 3Q89, 35
Sample Scheduling: 3Q88, 36; 4Q88, 50; 1Q89, 75
Sample Collection: 3Q86, 23; 4Q86, 31; 1Q87, 30; 2Q87, 27; 3Q87, 31; 4Q87, 30; 1Q88,
85; 2Q88, 54; 3Q88, 41; 4Q88, 52; 1Q89, 78; 2Q89, 43; 3Q89, 43;
4Q89, 40; 1Q90, 66; 2Q90, 48; 3Q90, 56; 4Q90, 56
Sample Analysis: 1Q88, 119, 122; 4Q88, 66-67, 92; 1Q89, 133; 2Q89, 107; 3Q89, 93;
1Q90, 86-89; 2Q90, 66-67; 3Q90, 76, 80
Water-Level Data: 4Q88, 295; 1Q89, 427; 2Q89, 419; 3Q89, 447; 4Q89, 443; 1Q90, 596;
2Q90, 561; 3Q90, 694; 4Q90, 527

ARP Series

Executive Summary: 3Q86, 5; 4Q86, 4; 1Q87, 5; 2Q87, 4; 3Q87, 6; 4Q87, 4; 1Q88, 7;
3Q88, 4; 1Q89, 5; 2Q89, 5; 3Q89, 5; 4Q89, 4; 1Q90, 6; 2Q90, 5;
3Q90, 6; 4Q90, 5
Corrections: 4Q87, 7; 1Q89, 19
Well Maintenance: 3Q86, 11; 2Q87, 12; 1Q88, 19; 4Q88, 13; 1Q89, 31; 4Q89, 13; 1Q90,
23; 3Q90, 22; 4Q90, 17
Sample Scheduling: 3Q88, 36; 4Q88, 50; 3Q89, 38
Sample Collection: 3Q86, 23; 4Q86, 32; 1Q87, 31; 2Q87, 27; 3Q87, 31; 4Q87, 30; 1Q88,
86; 2Q88, 54; 3Q88, 41; 4Q88, 52; 1Q89, 78; 2Q89, 44; 3Q89, 44;
4Q89, 40; 1Q90, 66; 2Q90, 48; 3Q90, 56; 4Q90, 56
Sample Analysis: 4Q86, 45; 2Q87, 43; 1Q88, 122; 4Q88, 92; 2Q89, 58-89; 2Q89,
106-107, 111, 113-114; 3Q89, 92-93; 4Q89, 56; 1Q90, 86-88; 3Q90,
80; 4Q90, 76, 86-87, 90
Quality Control Samples: 2Q90, 91
Water-Level Data: 4Q88, 295-296; 1Q89, 427; 2Q89, 419; 3Q89, 447; 4Q89, 443; 1Q90,
596; 2Q90, 561; 3Q90, 694; 4Q90, 527

ASB Series

Executive Summary: 3Q86, 5; 4Q86, 4; 1Q87, 6; 2Q87, 5; 3Q87, 6; 4Q87, 5; 1Q88, 7;
2Q88, 5; 3Q88, 5; 4Q88, 4; 1Q89, 6; 2Q89, 6; 3Q89, 6; 4Q89, 4;
1Q90, 7; 2Q90, 6; 3Q90, 7; 4Q90, 5
Corrections: 4Q86, 9; 1Q87, 9; 4Q87, 7; 1Q89, 14-16, 20-22, 25; 1Q90, 16-18;
3Q90, 17
Well Maintenance: 1Q86, 4; 2Q86, 4; 3Q86, 11, 14; 4Q86, 12; 2Q87, 13; 1Q88, 19; 2Q88,
17; 4Q88, 13; 1Q89, 31; 4Q89, 13; 1Q90, 23; 3Q90, 22; 4Q90, 18
Well Construction: 1Q89, 38; 4Q90, 20-21
Well Stabilization: 1Q89, 57-58
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 Sample Collection: 3Q86, 23; 4Q86, 32; 1Q87, 31; 2Q87, 28; 3Q87, 31; 4Q87, 31; 1Q88, 86; 2Q88, 54; 3Q88, 42; 4Q88, 52; 1Q89, 78; 2Q89, 44; 3Q89, 44; 4Q89, 40; 1Q90, 66; 2Q90, 48; 3Q90, 56; 4Q90, 56
 Sample Analysis: 4Q86, 44-45; 1Q87, 43, 56; 2Q87, 43; 3Q87, 52; 4Q87, 44, 54-56; 1Q88, 102, 121-122; 3Q88, 76, 78-79; 1Q89, 92, 132-133, 138; 2Q89, 62-65, 68-70, 73, 80, 84-89; 3Q89, 58, 68, 91-93, 96-99; 4Q89, 56, 66, 100; 1Q90, 86-90, 93-94, 96; 2Q90, 67-70, 73, 75; 3Q90, 76-78, 80-81, 85, 88-89, 93, 95-96; 4Q90, 74-79, 84, 87-88, 90
 Quality Control Samples: 1Q90, 105, 113-114; 2Q90, 91, 102-105; 3Q90, 111, 124-127; 4Q90, 101, 110-111
 Water-Level Data: 4Q88, 296-299; 1Q89, 427-428; 2Q89, 419-420; 3Q89, 447-448; 4Q89, 443-444; 1Q90, 596-597; 2Q90, 561-562; 3Q90, 694-695; 4Q90, 527-528

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 Well Abandonment: 1Q87, 11

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Executive Summary: 1Q87, 4; 2Q87, 3; 3Q87, 4; 4Q87, 2; 1Q88, 4; 2Q88, 3; 3Q88, 3; 4Q88, 4; 1Q89, 6; 2Q89, 6; 3Q89, 6; 4Q89, 5; 1Q90, 7; 2Q90, 6; 3Q90, 7; 4Q90, 6
 Corrections: 1Q89, 14, 20-21, 25; 3Q89, 11; 1Q90, 17-19; 3Q90, 15, 17
 Well Abandonment: 2Q87, 9; 4Q87, 10; 1Q88, 15; 2Q88, 14; 3Q88, 11; 4Q88, 11; 1Q89, 27-28; 2Q89, 13
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 Sample Collection: 1Q87, 31; 2Q87, 28; 3Q87, 32; 4Q87, 31; 1Q88, 86; 2Q88, 54; 4Q89, 40; 1Q90, 66; 2Q90, 48; 3Q90, 56; 4Q90, 56-57
 Sample Analysis: 2Q87, 44; 3Q87, 53; 4Q87, 57; 1Q88, 124; 2Q88, 85, 94; 3Q88, 77, 83; 1Q89, 132, 138-139; 2Q89, 115; 3Q89, 91-92, 96, 100; 4Q89, 100, 105; 1Q90, 85, 87, 89-90, 93, 97; 2Q90, 66-70, 76, 79; 3Q90, 76, 78-82, 87-89, 91, 96-97; 4Q90, 74-79, 81, 85, 86, 88, 91
 Quality Control Samples: 1Q90, 112; 3Q90, 111, 124-126; 4Q90, 101, 110, 112-113

BGO Series

Executive Summary: 1Q88, 1, 4; 2Q88, 3; 3Q88, 3; 4Q88, 4; 1Q89, 6; 2Q89, 6; 3Q89, 6; 4Q89, 5; 1Q90, 7; 2Q90, 6; 3Q90, 7; 4Q90, 6
 Corrections: 2Q88, 9; 3Q88, 9; 1Q89, 11, 14, 20, 25; 3Q89, 11; 4Q89, 9; 1Q90, 15-20; 3Q90, 7
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Sample Analysis: 1Q88, 121; 2Q88, 70-71, 77, 85, 87-91; 3Q88, 52-53, 68, 75-81, 83; 4Q88, 67-69, 92-97; 1Q89, 92-94, 118-119, 130-133, 135-136; 2Q89, 58-89, 91, 108-115; 3Q89, 58, 68, 90, 92-98; 4Q89, 56, 66-67, 100-103; 1Q90, 82-90, 93-97; 2Q90, 66-75, 77-78; 3Q90, 76-77, 79-81, 83-96; 4Q90, 74-75, 77, 80-89

Quality Control Samples: 1Q90, 105, 112-113; 2Q90, 91, 102-104, 111-112; 3Q90, 111, 124-126; 4Q90, 101, 110, 112

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Corrections: 4Q87, 7; 1Q89, 21

Well Maintenance: 3Q87, 12; 1Q89, 31

Well Construction: 3Q89, 23

Well Stabilization: 3Q89, 28

Surveying: 3Q89, 35

Sample Scheduling: 3Q88, 36; 3Q89, 40

Sample Collection: 3Q86, 23; 4Q86, 32; 1Q87, 31; 2Q87, 28; 3Q87, 32; 4Q87, 31; 1Q88, 87; 2Q88, 55; 3Q88, 42; 1Q89, 79; 2Q89, 45; 3Q89, 45; 4Q89, 41; 1Q90, 68; 2Q90, 66, 69; 3Q90, 58; 4Q90, 58

Sample Analysis: 4Q86, 45; 2Q87, 37, 43; 3Q87, 42; 1Q88, 121; 3Q88, 78; 2Q89, 107; 3Q89, 98; 4Q89, 100; 1Q90, 86; 3Q90, 77-78, 80, 82, 85, 87-89, 91, 94; 4Q90, 74-79, 81, 86-87, 89

Quality Control Samples: 3Q90, 111, 124-126; 4Q90, 101, 110, 112

BRR Series

Executive Summary: 2Q90, 3; 3Q90, 4; 4Q90, 3

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Well Stabilization: 2Q90, 29-30

Surveying: 1Q90, 61

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 Sample Collection: 2Q90, 50; 3Q90, 58; 4Q90, 58
 Sample Analysis: 2Q90, 66-67, 71, 73-74; 3Q90, 76, 79, 80, 85, 87, 89-92; 4Q90, 74-75, 78-79, 81-82, 84, 86-87
 Quality Control Samples: 2Q90, 91, 102-105; 3Q90, 111, 125-126; 4Q90, 101, 110, 112

CCB Series

Executive Summary: 2Q89, 2
 Well Maintenance: 2Q86, 4; 2Q88, 17; 3Q88, 13; 4Q88, 13
 Surveying: 2Q86, 13
 Sample Scheduling: 2Q88, 52; 3Q88, 37; 1Q89, 75
 Sample Collection: 3Q86, 23; 4Q86, 32; 1Q87, 31; 2Q87, 28; 3Q87, 32; 4Q87, 31; 1Q88, 87; 2Q88, 55; 3Q88, 42; 4Q88, 53; 1Q89, 79, 132; 2Q89, 45; 3Q89, 45; 4Q89, 42; 1Q90, 68; 2Q90, 50; 3Q90, 58; 4Q90, 59
 Sample Analysis: 1Q89, 133; 2Q89, 114; 1Q90, 90; 3Q89, 76, 85; 4Q90, 86
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CCP Series

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 Surveying: 4Q90, 49

CDB Series

Executive Summary: 4Q86, 2; 1Q87, 2; 2Q87, 2; 3Q87, 2; 1Q88, 2; 3Q88, 2; 1Q89, 2; 2Q89, 2; 3Q89, 2; 1Q90, 2; 3Q90, 2
 Corrections: 1Q89, 16; 3Q90, 15-16
 Well Construction: 3Q86, 15
 Surveying: 4Q86, 28; 1Q87, 25
 Sample Scheduling: 1Q89, 75; 3Q89, 38
 Sample Collection: 4Q86, 32; 1Q87, 31; 2Q87, 28; 3Q87, 32; 4Q87, 31; 1Q88, 87; 2Q88, 55; 3Q88, 42; 4Q88, 53; 1Q89, 79; 2Q89, 45; 3Q89, 46; 4Q89, 42; 1Q90, 68; 2Q90, 50; 3Q90, 59; 4Q90, 59
 Sample Analysis: 1Q87, 56; 2Q87, 43; 3Q87, 52; 1Q88, 122; 3Q88, 80; 1Q89, 133, 139; 2Q89, 110-111; 3Q89, 97; 1Q90, 92-93; 3Q90, 87-88, 90

CMP Series

Executive Summary: 3Q86, 6; 4Q86, 6; 1Q87, 7; 2Q87, 5; 3Q87, 8; 4Q87, 5; 1Q88, 8; 3Q88, 5; 1Q89, 7; 2Q89, 7; 3Q89, 7; 4Q89, 5; 1Q90, 8; 2Q90, 7; 3Q90, 8; 4Q90, 6
 Corrections: 4Q86, 9; 1Q87, 9; 1Q89, 21, 25; 1Q90, 17
 Well Maintenance: 1Q86, 4; 2Q86, 5; 4Q86, 12; 2Q87, 13; 1Q88, 19; 3Q89, 15; 1Q90, 23; 3Q90, 22

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Sample Scheduling: 3Q88, 37; 1Q89, 75; 3Q89, 40; 4Q89, 37
 Sample Collection: 2Q86, 17; 3Q86, 23-24; 4Q86, 32; 1Q87, 31; 2Q87, 28; 3Q87, 32;
 4Q87, 31; 1Q88, 87-88; 2Q88, 55; 3Q88, 43; 4Q88, 53; 1Q89, 79;
 2Q89, 45-46; 3Q89, 46; 4Q89, 42; 1Q90, 68; 2Q90, 51; 3Q90, 59;
 4Q90, 59
 Sample Analysis: 4Q86, 45; 2Q87, 37, 43; 3Q87, 52; 4Q87, 44-45, 54-56; 1Q88,
 102-103, 122; 3Q88, 53, 76, 78-79, 81; 1Q89, 94-95, 119, 129-130,
 132-136; 3Q89, 91-92; 4Q89, 101; 1Q90, 86-89; 3Q90, 79, 81
 Quality Control Samples: 4Q90, 101

CRP Series

Executive Summary: 3Q86, 2; 4Q86, 2; 1Q87, 2; 2Q87, 2; 3Q87, 2; 4Q87, 2; 1Q88, 2;
 3Q88, 2; 4Q88, 2; 1Q89, 2; 2Q89, 2; 3Q89, 2; 4Q89, 2; 1Q90, 2;
 2Q90, 2; 3Q90, 2; 4Q90, 2
 Corrections: 1Q89, 16, 21-22; 1Q90, 17
 Well Maintenance: 3Q86, 11; 1Q88, 19; 2Q88, 18; 1Q90, 24; 3Q90, 22
 Soil Coring: 1Q86, 12; 2Q86, 12
 Sample Scheduling: 3Q88, 37; 4Q88, 50; 1Q89, 74; 1Q89, 75; 2Q89, 40; 3Q89, 38; 4Q89,
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 Sample Collection: 3Q86, 24; 4Q86, 32; 1Q87, 32; 2Q87, 28; 3Q87, 32; 4Q87, 32; 1Q88,
 88; 2Q88, 56; 3Q88, 43; 4Q88, 53; 1Q89, 79; 2Q89, 46; 3Q89, 46;
 4Q89, 42; 1Q90, 68; 2Q90, 51; 3Q90, 59; 4Q90, 59
 Sample Analysis: 2Q86, 18-19; 3Q86, 37; 1Q87, 55-56; 4Q87, 55; 1Q88, 119, 122;
 3Q88, 80; 4Q88, 93; 1Q89, 133; 2Q89, 107; 3Q89, 91-93; 4Q89, 100;
 1Q90, 82-83, 86, 89-90; 2Q90, 67-69; 3Q90, 77, 80
 Quality Control Samples: 2Q90, 91, 102, 104

CSA Series

Executive Summary: 1Q87, 6; 3Q87, 7; 2Q89, 6
 Well Maintenance: 4Q88, 13; 1Q89, 32; 1Q90, 24
 Sample Scheduling: 3Q88, 37; 1Q89, 75
 Sample Collection: 3Q86, 24; 4Q86, 33; 1Q87, 32; 2Q87, 28; 3Q87, 32; 4Q87, 32; 1Q88,
 88; 2Q88, 56; 3Q88, 43; 1Q89, 79; 4Q89, 42; 3Q90, 59
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CSB Series

Executive Summary: 3Q86, 2; 4Q86, 2; 1Q87, 2; 2Q87, 2; 3Q87, 2; 4Q87, 2; 1Q88, 2;
 2Q88, 2; 3Q88, 2; 4Q88, 2; 1Q89, 2; 2Q89, 2; 3Q89, 2; 4Q89, 2;
 1Q90, 2; 2Q90, 2; 3Q90, 2; 4Q90, 2
 Corrections: 1Q89, 12, 16, 22
 Well Maintenance: 1Q86, 5; 2Q86, 5; 2Q87, 13
 Sample Scheduling: 2Q88, 51; 3Q88, 37
 Sample Collection: 2Q86, 17; 3Q86, 24; 4Q86, 33; 1Q87, 32; 2Q87, 29; 3Q87, 32-33;
 4Q87, 32; 1Q88, 88; 2Q88, 56; 3Q88, 43; 4Q88, 3; 1Q89, 79-80;
 2Q89, 46; 3Q89, 46; 4Q89, 42; 1Q90, 69; 2Q90, 51; 3Q90, 59; 4Q90,
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 Sample Analysis: 1Q86, 18; 3Q86, 33-36; 4Q86, 45; 1Q87, 55-56; 3Q87, 52; 1Q88, 119,
 121-122; 3Q88, 77-80, 83; 1Q89, 132-133, 139; 2Q89, 110-111, 115;

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Quality Control Samples: 3Q89, 95, 97-98; 4Q89, 104; 1Q90, 92-94; 2Q90, 75; 3Q90, 84-85, 87-88, 90, 92-93, 97; 4Q90, 87-88
1Q90, 113; 3Q90, 126

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Executive Summary: 1Q90, 8; 2Q90, 6; 3Q90, 8; 4Q90, 6
Well Construction: 1Q90, 31-33
Well Stabilization: 1Q90, 49-51
Surveying: 3Q90, 51
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Sample Analysis: 1Q90, 82, 85; 2Q90, 66-71, 75-76; 3Q90, 76, 78-81, 85-87, 89, 90-91, 93; 4Q90, 74-75, 77-79, 81-82, 87
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CSO Series

Executive Summary: 1Q89, 7; 2Q89, 6; 3Q90, 8
Corrections: 4Q87, 7
Well Maintenance: 2Q87, 13; 2Q88, 18; 4Q88, 13; 4Q90, 18
Sample Scheduling: 3Q88, 37
Sample Collection: 3Q86, 24; 4Q86, 33; 1Q87, 32; 2Q87, 29; 3Q87, 33; 4Q87, 32; 1Q88, 88; 2Q88, 56; 1Q89, 80; 4Q90, 59
Sample Analysis: 2Q89, 110; 1Q90, 92; 4Q90, 76, 87

CSR Series

Executive Summary: 4Q86, 6; 3Q87, 7; 1Q88, 8; 3Q88, 5; 1Q89, 6; 2Q89, 6; 3Q89, 7; 1Q90, 8
Corrections: 1Q89, 20, 1Q90, 18
Well Maintenance: 2Q87, 14; 1Q89, 32
Sample Scheduling: 3Q88, 37; 1Q89, 75
Sample Collection: 3Q86, 24; 4Q86, 33; 1Q87, 32; 2Q87, 29; 3Q87, 33; 4Q87, 32; 1Q88, 88; 2Q88, 56; 3Q88, 43; 4Q88, 53; 1Q89, 80; 2Q89, 46; 3Q89, 46; 4Q89, 42; 1Q90, 69; 2Q90, 51; 3Q90, 59; 4Q90, 60
Sample Analysis: 3Q87, 52; 1Q88, 122; 3Q88, 78, 80; 1Q89, 131, 133, 139; 2Q89, 107-108; 3Q89, 92; 4Q89, 100-101; 1Q90, 86-89

D Series

Surveying: 3Q86, 18

DBP Series

Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 6; 3Q87, 7; 1Q88, 8; 3Q88, 5; 1Q89, 6; 2Q89, 6; 3Q89, 6; 1Q90, 7; 3Q90, 7
Corrections: 1Q89, 11, 20
Well Maintenance: 2Q87, 14; 1Q90, 24
Sample Scheduling: 3Q88, 37; 4Q88, 50; 1Q89, 75
Sample Collection: 3Q86, 25; 4Q86, 33; 1Q87, 32; 2Q87, 29; 3Q87, 33; 4Q87, 32; 1Q88, 88; 2Q88, 56; 4Q88, 53; 2Q90, 51; 4Q90, 60

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Sample Analysis: 3Q87, 52; 3Q88, 75, 78; 1Q89, 129; 3Q89, 92; 1Q90, 87, 89; 3Q90, 79, 89

DCB Series

Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 6; 3Q87, 7; 4Q87, 5; 1Q88, 8; 2Q88, 5; 3Q88, 5; 4Q88, 4; 1Q89, 6; 2Q89, 6; 3Q89, 6; 4Q89, 5; 1Q90, 7; 2Q90, 6; 3Q90, 7; 4Q90, 6
Corrections: 4Q87, 7; 1Q89, 14, 20-21, 25; 1Q90, 16-17
Well Abandonment: 3Q90, 19
Well Maintenance: 3Q86, 11; 3Q87, 12; 1Q89, 32; 4Q89, 13; 1Q90, 24; 3Q90, 22
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Well Stabilization: 4Q87, 14-16; 4Q88, 27-28
Surveying: 3Q87, 27; 4Q88, 47
Sample Scheduling: 2Q88, 52; 4Q88, 50; 1Q89, 75
Sample Collection: 3Q86, 25; 4Q86, 33; 1Q87, 32; 2Q87, 29; 3Q87, 33; 4Q87, 32; 1Q88, 89; 2Q88, 56; 3Q88, 43; 4Q88, 54; 1Q89, 80; 2Q89, 46; 3Q89, 46; 4Q89, 42-43; 1Q90, 69; 2Q90, 51-52; 3Q90, 60; 4Q90, 60
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Quality Control Samples: 1Q90, 105, 113-114; 3Q90, 111, 124, 126-127

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Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 6; 3Q87, 7; 1Q88, 8; 3Q88, 5; 1Q89, 6; 2Q89, 6; 3Q89, 6; 4Q89, 5; 1Q90, 7; 3Q90, 7
Corrections: 1Q89, 20
Well Maintenance: 3Q86, 11; 2Q87, 14; 2Q90, 17
Sample Scheduling: 3Q88, 37; 4Q88, 50; 1Q89, 75
Sample Collection: 3Q86, 25; 4Q86, 33; 1Q87, 32; 2Q87, 29; 3Q87, 33; 4Q87, 33; 1Q88, 89; 2Q88, 56; 3Q88, 43; 4Q89, 43; 2Q90, 52; 3Q90, 60
Sample Analysis: 3Q88, 78-80; 1Q89, 129, 131-133; 2Q89, 58-61, 63, 65-67, 70-84, 91, 107-108, 110-111, 114; 3Q89, 93, 97-98; 4Q89, 103; 1Q90, 94; 3Q90, 77, 86, 92-93
Quality Control Samples: 3Q90, 111, 126

DPB Series (Incorrectly reported; should be DBP)

Sample Collection: 2Q90, 51
Sample Analysis: 3Q88, 78

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Well Abandonment: 1Q89, 28; 2Q89, 14

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Executive Summary: 1Q87, 4; 2Q87, 3; 3Q87, 4; 4Q87, 3; 1Q88, 5; 2Q88, 3; 3Q88, 3; 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4; 4Q89, 3; 1Q90, 4; 2Q90, 4; 3Q90, 4; 4Q90, 3

Corrections: 3Q88, 10; 1Q89, 13, 15, 18, 21, 23; 2Q89, 11; 3Q90, 15

Well Abandonment: 1Q89, 29; 2Q89, 13

Well Maintenance: 3Q86, 12

Surveying: 2Q86, 13

Sample Collection: 1Q87, 32-33; 2Q87, 29; 3Q87, 33; 4Q87, 33; 1Q88, 89; 2Q88, 57; 4Q89, 43

Sample Analysis: 2Q87, 44; 3Q87, 53; 2Q88, 86, 94; 3Q88, 83; 4Q88, 99-100; 1Q89, 138, 139; 2Q89, 115; 3Q89, 100; 4Q89, 105; 1Q90, 97; 2Q90, 76; 3Q90, 93, 97; 4Q90, 91

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Executive Summary: 3Q86, 3; 1Q87, 4; 3Q87, 4; 1Q88, 4; 3Q88, 3; 4Q88, 2; 1Q89, 3; 2Q89, 3; 3Q89, 3; 4Q89, 3; 1Q90, 4; 2Q90, 3; 3Q90, 4; 4Q90, 3

Corrections: 1Q89, 15, 17, 21, 23; 1Q90, 17-18

Well Abandonment: 1Q89, 27

Well Maintenance: 4Q88, 13

Well Construction: 3Q88, 17-18

Well Stabilization: 4Q88, 28-29

Surveying: 4Q88, 47

Sample Scheduling: 4Q88, 50; 1Q89, 73, 75; 2Q89, 40; 3Q89, 38; 4Q89, 35

Sample Collection: 3Q86, 25; 4Q86, 33; 1Q87, 33; 2Q87, 29; 3Q87, 33; 4Q87, 33; 1Q88, 89; 3Q88, 43; 4Q88, 54; 1Q89, 80; 2Q89, 46-47; 3Q89, 46-47; 4Q89, 43; 1Q90, 69; 2Q90, 52; 3Q90, 60; 4Q90, 60

Sample Analysis: 3Q87, 52; 1Q88, 121-122; 3Q88, 77; 1Q89, 97, 119, 131-137; 2Q89, 106-108; 3Q89, 58, 68, 92-93, 97; 4Q89, 100-101; 1Q90, 87-88, 90, 93; 2Q90, 67-70; 3Q90, 77, 79-82, 87-88, 90-92; 4Q90, 75, 77-80

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FAL Series

Executive Summary: 3Q86, 3; 4Q86, 3; 1Q87, 4; 2Q87, 3; 3Q87, 4; 4Q87, 3; 1Q88, 4; 3Q88, 3; 1Q89, 3; 2Q89, 3; 3Q89, 3; 4Q89, 3; 1Q90, 4; 2Q90, 3; 3Q90, 4; 4Q90, 3

Corrections: 1Q89, 17; 1Q90, 16

Well Maintenance: 1Q86, 5

Well Construction: 1Q86, 8-9

Sample Scheduling: 3Q88, 37

Sample Collection: 3Q86, 25; 4Q86, 34; 1Q87, 33; 2Q87, 29; 3Q87, 33; 4Q87, 33; 1Q88, 89; 2Q88, 57; 3Q88, 44; 4Q88, 54; 1Q89, 81; 2Q89, 47; 3Q89, 47; 4Q89, 43; 1Q90, 70; 2Q90, 52; 3Q90, 60; 4Q90, 60

Sample Analysis: 3Q87, 52; 4Q87, 54; 1Q88, 120-121; 1Q89, 133; 2Q89, 107; 3Q89, 93; 1Q90, 86-87; 2Q90, 69; 3Q90, 89

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Corrections: 1Q89, 18
Well Maintenance: 1Q89, 32
Sample Scheduling: 3Q88, 37; 1Q89, 75; 3Q89, 40
Sample Collection: 3Q86, 25; 4Q86, 34; 1Q87, 33; 2Q87, 30; 3Q87, 34; 4Q87, 33; 1Q88, 89; 2Q88, 57; 3Q88, 44; 4Q88, 54; 1Q89, 81; 2Q89, 47; 2Q90, 52
Sample Analysis: 2Q86, 18-20; 2Q87, 43; 3Q87, 43, 52; 4Q87, 54; 1Q88, 120; 3Q88, 79; 1Q89, 134; 2Q89, 107-108; 3Q89, 91-93; 1Q90, 84, 87-89; 3Q90, 76, 81

FC Series

Corrections: 3Q88, 9
Well Abandonment: 1Q89, 28
Sample Collection: 1Q87, 33 (Incorrectly reported; should be FCA)
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FCA Series

Executive Summary: 3Q86, 4; 4Q86, 3; 1Q87, 4; 2Q87, 3; 3Q87, 4; 4Q87, 3; 1Q88, 5; 2Q88, 3; 3Q88, 3; 4Q88, 2; 1Q89, 4; 2Q89, 3; 3Q89, 4; 4Q89, 3; 1Q90, 4; 2Q90, 3; 3Q90, 4; 4Q90, 3
Corrections: 4Q86, 9; 3Q88, 9; 1Q89, 13, 15, 18, 21, 23; 4Q89, 9; 1Q90, 16-18; 3Q90, 15
Well Construction: 1Q89, 43
Surveying: 1Q89, 71
Sample Scheduling: 3Q87, 30
Sample Collection: 2Q86, 17; 3Q86, 26; 4Q86, 34; 1Q87, 33; 2Q87, 30; 3Q87, 34; 4Q87, 33; 1Q88, 89-90; 2Q88, 57; 3Q88, 44; 4Q88, 54; 1Q89, 81; 2Q89, 47; 3Q89, 47; 4Q89, 43; 1Q90, 70; 2Q90, 52-53; 3Q90, 60-61; 4Q90, 60-61
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FCB Series

Executive Summary: 3Q86, 4; 1Q87, 4; 3Q87, 4; 1Q88, 5; 2Q88, 3; 3Q88, 3; 4Q88, 3; 1Q89, 4; 2Q89, 3; 3Q89, 4; 1Q90, 4; 3Q90, 4
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Sample Scheduling: 2Q88, 52; 3Q88, 37; 4Q88, 50; 1Q89, 75
Sample Collection: 3Q86, 26; 4Q86, 34; 1Q87, 34; 2Q87, 30; 3Q87, 34; 4Q87, 34; 1Q88, 90; 2Q88, 57; 3Q88, 44; 4Q88, 55; 1Q89, 81; 2Q89, 47; 3Q89, 47; 4Q89, 44; 1Q90, 70; 2Q90, 53; 3Q90, 61; 4Q90, 61
Sample Analysis: 1Q87, 55-56; 1Q88, 119, 121-122; 2Q88, 85; 2Q89, 107-108; 3Q89, 91, 93; 1Q90, 82, 86-89; 3Q90, 77, 85
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Corrections: 1Q89, 23
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Well Stabilization: 4Q88, 29–30
Surveying: 4Q88, 47
Sample Scheduling: 4Q88, 50; 3Q89, 40
Sample Collection: 4Q88, 55; 1Q89, 81; 2Q89, 47; 3Q89, 47; 4Q89, 44; 1Q90, 70; 2Q90, 53; 3Q90, 61; 4Q90, 61
Sample Analysis: 4Q88, 93; 1Q89, 98, 132–133, 135; 2Q89, 107–108; 3Q89, 92–93; 1Q90, 82, 87–88

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Well Abandonment: 1Q89, 28

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Executive Summary: 3Q86, 4; 4Q86, 3; 1Q87, 4; 2Q87, 3; 3Q87, 5; 4Q87, 3; 1Q88, 5; 3Q88, 4; 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4; 4Q89, 3; 1Q90, 4; 2Q90, 4; 3Q90, 4; 4Q90, 4
Corrections: 1Q89, 18, 23; 1Q90, 16–17, 19
Well Maintenance: 1Q86, 5; 2Q86, 6
Soil Coring: 1Q86, 12
Sample Scheduling: 3Q87, 30; 3Q88, 37; 1Q89, 74; 2Q89, 41; 3Q89, 41; 4Q89, 37
Sample Collection: 3Q86, 26; 4Q86, 34; 1Q87, 34; 2Q87, 30; 3Q87, 34; 4Q87, 34; 1Q88, 90; 2Q88, 58; 3Q88, 44; 4Q88, 55; 1Q89, 81; 2Q89, 47; 3Q90, 61; 4Q90, 61
Sample Analysis: 1Q86, 18; 1Q87, 55–56; 2Q87, 37–38; 4Q87, 55; 1Q88, 119, 121; 3Q88, 77, 79; 1Q89, 98–99, 118, 132–133, 135–136; 2Q89, 110–111; 3Q89, 95; 4Q89, 56, 66–67, 100; 1Q90, 92–93; 2Q90, 66, 68, 73, 76; 3Q90, 78, 84, 86–88, 90; 4Q90, 74, 76, 87
Quality Control Samples: 1Q90, 105, 113; 2Q90, 91, 102–105; 3Q90, 111, 123–126; 4Q90, 101, 112

FSB Series

Executive Summary: 3Q86, 4; 4Q86, 3; 1Q87, 4; 2Q87, 3; 3Q87, 4; 4Q87, 1, 3; 1Q88, 5; 2Q88, 3; 3Q88, 4; 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4; 4Q89, 3; 1Q90, 4; 2Q90, 4; 3Q90, 4; 4Q90, 4
Corrections: 1Q87, 9; 4Q87, 7; 2Q88, 9–10; 3Q88, 9; 1Q89, 11, 13, 18, 23; 2Q89, 11; 3Q89, 11–12; 1Q90, 15–20
Well Maintenance: 1Q86, 5; 2Q86, 6; 4Q86, 13; 2Q87, 14; 4Q87, 12; 4Q88, 13–14; 3Q89, 16; 1Q90, 24; 3Q90, 23
Well Construction: 3Q87, 15–25; 4Q87, 13; 1Q88, 32–35; 1Q89, 37; 4Q90, 22–30
Well Stabilization: 4Q87, 16–26; 1Q88, 62–65
Surveying: 2Q86, 13; 1Q87, 26; 3Q87, 27–28; 4Q87, 27; 2Q88, 47; 4Q90, 49–50
Sample Scheduling: 2Q87, 25; 3Q87, 29; 4Q87, 28; 1Q88, 83; 2Q88, 51–52; 3Q88, 37; 1Q89, 74; 2Q89, 40; 3Q89, 38, 40; 4Q89, 35, 37
Sample Collection: 3Q86, 22, 26; 4Q86, 34; 1Q87, 34; 2Q87, 30; 3Q87, 34; 4Q87, 34–36; 1Q88, 90–91; 2Q88, 58; 3Q88, 44–45; 4Q88, 55; 1Q89, 81–82; 2Q89, 47–48; 3Q89, 47–48; 4Q89, 44; 1Q90, 70–71; 2Q90, 53; 3Q90, 61–62; 4Q90, 61–62

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Sample Analysis: 1Q86, 18; 4Q86, 40, 45; 1Q87, 41-42, 44-45, 55-56; 2Q87, 38-39, 42-43; 3Q87, 43-44, 51-52; 4Q87, 45, 54-57; 1Q88, 105-106, 120-124; 2Q88, 71-72, 84-85, 88-94; 3Q88, 54-55, 67-68, 75-83; 4Q88, 69-70, 92-98, 100; 1Q89, 99-103, 118-119, 129-136, 138-139; 2Q89, 58-89, 107-108, 110-112, 114; 3Q89, 58, 68, 92-100; 4Q89, 56, 66-67, 100-102; 1Q90, 82-90, 93, 95-97; 2Q90, 68, 71-79; 3Q90, 77, 79-81, 83-94; 4Q90, 74-78, 81-89

Quality Control Samples: 1Q90, 105, 113-114; 2Q90, 91, 102, 104-105, 112-113; 3Q90, 111, 123-124, 126; 4Q90, 101, 110-113

FSS Series

Executive Summary: 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4; 4Q89, 3; 1Q90, 4; 2Q90, 4; 3Q90, 4

Corrections: 1Q89, 23; 1Q90, 17

Well Construction: 4Q88, 17-18

Well Stabilization: 4Q88, 30-32

Surveying: 4Q88, 47

Sample Scheduling: 4Q88, 50; 1Q89, 73; 2Q89, 40; 3Q89, 38; 4Q89, 35

Sample Collection: 4Q88, 56; 1Q89, 82; 2Q89, 48; 3Q89, 48; 4Q89, 44-45; 1Q90, 71; 2Q90, 53-54; 3Q90, 62; 4Q90, 62

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Executive Summary: 1Q87, 4; 2Q87, 3; 3Q87, 4; 4Q87, 3; 1Q88, 5; 2Q88, 3; 3Q88, 4; 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4; 4Q89, 3; 1Q90, 4; 2Q90, 4; 3Q90, 4; 4Q90, 4

Corrections: 1Q89, 13, 18, 23; 1Q90, 18-19; 3Q90, 15

Sample Scheduling: 1Q89, 76; 3Q89, 40

Sample Collection: 1Q87, 34; 2Q87, 30-31; 3Q87, 35; 4Q87, 36; 1Q88, 91; 2Q88, 58; 4Q88, 45; 1Q90, 71; 2Q90, 54; 3Q90, 62

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Well Abandonment: 3Q88, 12; 1Q89, 29; 2Q89, 13
Well Maintenance: 3Q86, 12
Surveying: 2Q86, 13; 3Q86, 18
Sample Collection: 1Q87, 34; 2Q87, 31; 3Q87, 35; 1Q88, 92; 2Q88, 59; 4Q89, 45
Sample Analysis: 2Q87, 44; 4Q87, 56; 1Q88, 124; 2Q88, 86, 94; 3Q88, 83; 4Q88, 100; 1Q89, 139; 3Q89, 100; 1Q90, 97; 2Q90, 69, 76, 79; 3Q90, 80, 91-92, 97; 4Q90, 91

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Sample Collection: 4Q88, 56; 1Q89, 82; 2Q89, 48; 3Q89, 48; 4Q89, 45; 1Q90, 71; 2Q90, 54; 3Q90, 62; 4Q90, 62
Sample Analysis: 1Q89, 133; 2Q89, 58-61, 63, 65-67, 70-85, 89, 107-108; 3Q89, 92-93; 4Q89, 100-101; 1Q90, 87, 89; 2Q90, 68, 71, 74, 76; 3Q90, 77-78, 80-81, 83, 85, 89, 91, 94; 4Q90, 74-75, 77-79
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Executive Summary: 1Q88, 1, 6; 2Q88, 4; 3Q88, 4; 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4
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Sample Collection: 1Q88, 92; 2Q88, 59
Sample Analysis: 2Q88, 85; 3Q88, 56, 79-80, 82; 4Q88, 71, 78, 97-98; 1Q89, 133; 3Q90, 80-81

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Corrections: 1Q89, 18
Well Construction: 2Q86, 9; 4Q86, 22; 1Q87, 13-14
Surveying: 1Q87, 25
Sample Collection: 3Q86, 27; 4Q86, 35; 1Q87, 34-35; 2Q87, 31; 3Q87, 35; 4Q87, 36;
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Corrections: 1Q87, 9; 2Q87, 7; 1Q89, 13, 18, 21, 24; 1Q90, 16
Well Maintenance: 2Q86, 6; 3Q86, 12; 3Q90, 23; 4Q90, 18
Surveying: 2Q86, 14-15; 1Q87, 25
Sample Scheduling: 2Q88, 52; 3Q88, 37; 1Q89, 75
Sample Collection: 3Q86, 27; 4Q86, 35; 1Q87, 35; 2Q87, 31; 3Q87, 35; 4Q87, 36; 1Q88,
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HCC Series

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HET Series

Executive Summary: 4Q88, 3; 1Q89, 4; 2Q89, 4; 3Q89, 4; 1Q90, 5; 3Q90, 5
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Sample Collection: 4Q88, 56; 1Q89, 83; 2Q89, 49; 3Q89, 49; 4Q89, 45; 1Q90, 72; 2Q90,
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Sample Analysis: 3Q87, 52; 4Q87, 54–55; 1Q88, 124; 3Q88, 83; 2Q89, 110–111; 4Q89, 105; 1Q90, 93; 3Q90, 92; 4Q90, 90

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Executive Summary: 3Q86, 5; 4Q86, 4; 1Q87, 5; 2Q87, 4; 3Q87, 5; 4Q87, 4; 1Q88, 1, 6; 2Q88, 4; 3Q88, 4; 4Q88, 3; 1Q89, 5; 2Q89, 4; 3Q89, 5; 4Q89, 3; 1Q90, 5; 2Q90, 4; 3Q90, 5; 4Q90, 4
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Well Maintenance: 1Q86, 5; 2Q86, 6; 3Q86, 12; 4Q86, 13; 2Q87, 15; 1Q88, 20; 4Q88, 13–14; 1Q89, 32; 3Q89, 15, 17; 2Q90, 17–18; 3Q90, 23
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Well Stabilization: 1Q88, 66–77; 2Q88, 37–46
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Corrections: **1Q87**, 9
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Executive Summary: **4Q88**, 3; **1Q89**, 5; **2Q89**, 5; **3Q89**, 5; **1Q90**, 5; **3Q90**, 5
Corrections: **1Q89**, 24; **1Q90**, 17
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Well Stabilization: **4Q88**, 34-35
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Sample Scheduling: **4Q88**, 50; **1Q89**, 73; **2Q89**, 40; **3Q89**, 38; **4Q89**, 35
Sample Collection: **4Q88**, 57; **1Q89**, 84; **2Q89**, 50; **3Q89**, 49; **4Q89**, 46; **1Q90**, 73; **2Q90**, 55; **3Q90**, 63; **4Q90**, 63
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Corrections: **4Q87**, 7; **2Q88**, 10-11; **1Q89**, 13, 15, 19, 24; **3Q89**, 12; **4Q89**, 9; **1Q90**, 19-20; **3Q90**, 15
Well Abandonment: **4Q86**, 11
Sample Scheduling: **1Q89**, 74, 76; **2Q89**, 40; **3Q89**, 40; **4Q89**, 37
Sample Collection: **1Q87**, 35-36; **2Q87**, 31; **3Q87**, 36; **4Q87**, 37; **1Q88**, 93; **2Q88**, 60; **4Q89**, 46; **1Q90**, 73; **2Q90**, 55; **3Q90**, 64; **4Q90**, 64
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Corrections: 1Q87, 9; 1Q90, 16-18
Well Maintenance: 2Q87, 15; 4Q88, 13
Sample Scheduling: 3Q88, 37
Sample Collection: 3Q86, 27; 4Q86, 35; 1Q87, 36; 2Q87, 31; 3Q87, 36; 4Q87, 37; 1Q88, 93; 2Q88, 60; 1Q89, 84; 2Q89, 50; 3Q89, 50; 4Q89, 46; 2Q90, 55; 3Q90, 64; 4Q90, 64
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Executive Summary: 2Q89, 6; 1Q90, 5
Corrections: 3Q87, 10; 1Q90, 17-18
Well Maintenance: 2Q87, 15
Sample Scheduling: 3Q88, 38
Sample Collection: 3Q86, 27; 4Q86, 35; 1Q87, 36; 2Q87, 31; 3Q87, 36; 4Q87, 37; 1Q88, 93; 2Q88, 60; 3Q88, 46; 4Q88, 57; 1Q89, 84; 2Q89, 50
Sample Analysis: 3Q87, 52; 2Q89, 106-107; 1Q90, 87-88; 3Q90, 79
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Executive Summary: 1Q87, 7
Surveying: 2Q88, 48
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Sample Collection: 1Q87, 36

IDB Series (Interim Waste Management Facility Site Characterization Wells, Site B)

Executive Summary: 4Q89, 5; 1Q90, 8; 2Q90, 7; 3Q90, 8; 4Q90, 6
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Sample Analysis: 1Q90, 85; 2Q90, 66, 68-69; 3Q90, 77-81, 86-88, 92, 96; 4Q90, 75, 77-79
Quality Control Samples: 2Q90, 91; 3Q90, 111, 123-124, 126; 4Q90, 110

IDP Series

Executive Summary: 4Q89, 5; 1Q90, 8; 2Q90, 7; 3Q90, 8; 4Q90, 6
Corrections: 3Q90, 15
Well Maintenance: 3Q90, 23
Surveying: 1Q88, 81; 4Q90, 50
Sample Scheduling: 4Q89, 35
Sample Collection: 4Q89, 47; 1Q90, 73; 2Q90, 56; 3Q90, 64; 4Q90, 64
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Well Maintenance: 3Q90, 23-24
Surveying: 1Q88, 81; 4Q90, 50
Sample Scheduling: 4Q89, 35
Sample Collection: 4Q89, 47; 1Q90, 73; 2Q90, 56; 3Q90, 64; 4Q90, 64
Sample Analysis: 2Q90, 66, 68-69; 3Q90, 77-81, 85-89, 91, 96; 4Q90, 75, 77-79
Quality Control Samples: 2Q90, 91; 3Q90, 111, 124-126

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Well Abandonment: 1Q88, 17; 4Q89, 11

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Executive Summary: 3Q86, 2; 1Q87, 2; 3Q87, 2; 1Q88, 2; 3Q88, 2; 1Q89, 2; 2Q89, 2;
3Q89, 2; 1Q90, 2; 3Q90, 2
Corrections: 1Q89, 16; 3Q89, 12
Well Maintenance: 2Q87, 15; 4Q88, 13-14; 3Q89, 17
Sample Scheduling: 3Q88, 38
Sample Collection: 3Q86, 28; 4Q86, 35; 1Q87, 36; 2Q87, 32; 3Q87, 36; 4Q87, 37; 1Q88,
93; 2Q88, 60; 3Q88, 46; 4Q88, 57; 1Q89, 84; 2Q89, 50; 3Q89, 50;
4Q89, 47; 1Q90, 73; 2Q90, 56; 3Q90, 64; 4Q90, 64
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88-89; 2Q90, 66; 3Q90, 80-81
Quality Control Samples: 4Q90, 101

KAC Series

Executive Summary: 3Q86, 2; 4Q86, 2; 1Q87, 2; 3Q87, 2; 1Q88, 2; 3Q88, 2; 4Q88, 2;
1Q89, 2; 2Q89, 2; 3Q89, 2; 4Q89, 2; 1Q90, 2; 2Q90, 2; 3Q90, 2;
4Q90, 2
Corrections: 1Q89, 16, 21-22; 1Q90, 16-18
Well Maintenance: 3Q86, 13; 4Q88, 13
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Sample Scheduling: 3Q88, 38; 4Q88, 50; 1Q89, 73, 75; 2Q89, 40; 3Q89, 38; 4Q89, 35
Sample Collection: 3Q86, 28; 4Q86, 35; 1Q87, 36; 2Q87, 32; 3Q87, 36; 4Q87, 37; 1Q88,
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 Corrections: 1Q89, 12, 16; 1Q90, 17
 Well Maintenance: 3Q86, 13; 3Q89, 17; 3Q90, 24
 Surveying: 2Q86, 14
 Sample Scheduling: 2Q88, 52; 3Q88, 38; 1Q89, 75
 Sample Collection: 3Q86, 28; 4Q86, 35; 1Q87, 36; 2Q87, 32; 3Q87, 36; 4Q87, 37; 1Q88, 93; 2Q88, 60; 3Q88, 46; 4Q88, 58; 1Q89, 84; 2Q89, 50; 3Q89, 50; 4Q89, 47; 1Q90, 74; 2Q90, 56; 3Q90, 64; 4Q90, 64
 Sample Analysis: 1Q88, 122; 2Q88, 89; 3Q88, 79; 1Q89, 132-133; 2Q89, 106-108; 1Q90, 86-89; 3Q90, 90, 92

KDB Series

Executive Summary: 4Q86, 2; 1Q87, 2; 2Q87, 2; 3Q87, 2; 1Q88, 2; 2Q88, 2; 3Q88, 2; 4Q88, 2; 1Q89, 2; 2Q89, 2; 3Q89, 2; 1Q90, 2; 2Q90, 2; 3Q90, 2; 4Q90, 2
 Corrections: 1Q89, 12, 16, 22; 4Q89, 9; 3Q90, 16
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 Surveying: 4Q86, 28
 Sample Scheduling: 1Q89, 75; 3Q89, 38
 Sample Collection: 4Q86, 35-36; 1Q87, 36; 2Q87, 32; 3Q87, 36; 4Q87, 37; 1Q88, 94; 2Q88, 60; 3Q88, 46; 4Q88, 58; 1Q89, 84; 2Q89, 50; 3Q89, 50; 4Q89, 47; 1Q90, 74; 2Q90, 56; 3Q90, 65; 4Q90, 65
 Sample Analysis: 1Q87, 56; 2Q87, 43; 3Q87, 52-53; 1Q88, 122, 124; 3Q88, 83; 1Q89, 130, 132-133; 2Q89, 110-111; 3Q89, 95, 98-99; 1Q90, 92-94; 2Q90, 75; 3Q90, 86-88, 91-93; 4Q90, 88

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 Corrections: 1Q87, 9; 1Q89, 12, 16, 21-22; 1Q90, 19
 Well Maintenance: 2Q86, 6-7; 2Q87, 16; 2Q88, 18
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 Sample Collection: 2Q86, 17; 3Q86, 28; 4Q86, 36; 1Q87, 36-37; 2Q87, 32; 3Q87, 36; 4Q87, 38; 1Q88, 94; 2Q88, 61; 3Q88, 46; 4Q88, 58; 1Q89, 84; 2Q89, 50-51; 3Q89, 50; 4Q89, 47; 1Q90, 74; 2Q90, 57; 3Q90, 65; 4Q90, 65
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 Sample Collection: 3Q86, 28; 4Q86, 36; 1Q87, 37; 2Q87, 32; 3Q87, 36; 4Q87, 38; 1Q88, 94; 2Q88, 61; 3Q88, 46; 4Q88, 58; 1Q89, 85; 2Q89, 51; 4Q89, 48; 1Q90, 74; 3Q90, 65
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 Well Maintenance: 3Q87, 12; 4Q90, 18
 Sample Scheduling: 3Q88, 38; 1Q89, 76
 Sample Collection: 3Q86, 28; 4Q86, 36; 1Q87, 37; 2Q87, 32; 3Q87, 36; 4Q87, 38; 1Q88, 94; 2Q88, 61; 1Q89, 85; 4Q89, 48; 2Q90, 57; 4Q90, 65

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Sample Analysis:	1Q87, 55; 1Q88, 121; 3Q88, 75; 2Q89, 106-107; 1Q90, 83-84; 3Q90, 80-81

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Executive Summary:	3Q86, 3; 1Q87, 3; 3Q87, 3; 1Q88, 3; 2Q88, 2; 3Q88, 2; 4Q88, 2; 1Q89, 2; 2Q89, 2; 3Q89, 2; 4Q89, 2; 1Q90, 3; 2Q90, 2; 3Q90, 3; 4Q90, 2
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Sample Collection: 1Q87, 38; 2Q87, 33; 3Q87, 38; 4Q87, 39; 1Q88, 95; 2Q88, 62
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Corrections: 1Q89, 14, 20, 25
Sample Collection: 1Q87, 38; 2Q87, 33; 3Q87, 38; 4Q87, 39; 1Q88, 96; 2Q88, 62
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Corrections: 1Q89, 14, 20, 25
Sample Collection: 1Q87, 38; 2Q87, 33; 3Q87, 38; 4Q87, 39; 1Q88, 96; 2Q88, 62
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Sample Collection: 2Q86, 17; 3Q86, 30; 4Q86, 37-38; 1Q87, 39; 2Q87, 34; 3Q87, 39; 4Q87, 40; 1Q88, 97; 2Q88, 65; 1Q89, 88; 2Q89, 54; 3Q89, 54; 4Q89, 51; 1Q90, 77; 2Q90, 60; 3Q90, 69; 4Q90, 70

Sample Analysis: 1Q86, 18; 2Q87, 44; 3Q87, 52; 1Q88, 121-122; 3Q88, 78; 1Q89, 132-133; 2Q89, 110-111, 115; 3Q89, 96-97; 1Q90, 92-94; 2Q90, 73, 75, 77, 79; 3Q90, 87, 88

PSS Series

Executive Summary: 4Q88, 5; 1Q89, 7; 2Q89, 7; 1Q90, 8

Corrections: 1Q89, 26; 1Q90, 17

Well Construction: 4Q88, 20-21

Well Stabilization: 4Q88, 38-39

Surveying: 4Q88, 48; 1Q89, 72

Sample Scheduling: 4Q88, 50; 1Q89, 73; 2Q89, 40; 3Q89, 38; 4Q89, 35

Sample Collection: 4Q88, 61; 1Q89, 88, 132; 2Q89, 54; 3Q89, 54; 4Q89, 51; 1Q90, 78; 2Q90, 60; 3Q90, 69; 4Q90, 70

Sample Analysis: 1Q89, 132; 2Q89, 107; 3Q89, 58, 68, 91, 93, 95, 97-98; 4Q89, 100; 1Q90, 84, 86-88, 93; 3Q90, 78-80, 88, 91; 4Q90, 75-76, 79

Quality Control Samples: 1Q90, 105, 113; 3Q90, 111, 124, 126; 4Q90, 110

PW Series

Well Abandonment: 2Q87, 10; 2Q89, 14; 3Q89, 13

PZ Series

Well Abandonment: 1Q87, 11; 2Q87, 10; 4Q87, 10; 1Q88, 16

Well Maintenance: 3Q86, 13

Surveying: 2Q90, 44

R Series

Surveying: 3Q86, 18

RAC Series

Executive Summary: 3Q86, 3; 1Q87, 3; 3Q87, 3; 3Q88, 3; 1Q89, 3; 2Q89, 3; 3Q89, 3; 4Q89, 2; 1Q90, 3; 3Q90, 3

Corrections: 1Q89, 17; 1Q90, 17-18

Well Maintenance: 1Q86, 6; 2Q86, 8; 1Q89, 33-34

Sample Scheduling: 3Q88, 39

Sample Collection: 3Q86, 31; 4Q86, 38; 1Q87, 39; 2Q87, 34; 3Q87, 39; 4Q87, 40; 1Q88, 97; 2Q88, 65; 3Q88, 49; 4Q88, 61; 1Q89, 88; 2Q89, 54; 3Q89, 54; 4Q89, 51; 1Q90, 78; 2Q90, 60; 3Q90, 70; 4Q90, 70

Sample Analysis: 3Q87, 46; 1Q88, 119, 121; 1Q89, 132; 2Q89, 106-108; 1Q90, 86-88; 3Q90, 80

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RCP Series

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Surveying: 4Q90, 51

RDB Series

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Well Construction: 1Q90, 44–45; 3Q90, 16
Well Stabilization: 1Q90, 52–53
Surveying: 1Q90, 61
Sample Collection: 1Q90, 78; 2Q90, 60; 3Q90, 70; 4Q90, 70
Sample Analysis: 1Q90, 83, 85; 2Q90, 68–69; 3Q90, 80–81, 85–86, 89, 91–92; 4Q90, 77, 79
Quality Control Samples: 3Q90, 111, 124–126

RRP Series

Executive Summary: 3Q86, 3; 2Q89, 3; 3Q90, 3
Well Maintenance: 1Q86, 6; 2Q87, 19; 1Q90, 26
Sample Scheduling: 3Q88, 39; 4Q88, 50; 3Q89, 38
Sample Collection: 3Q86, 31; 4Q86, 38; 1Q87, 39; 2Q87, 34; 3Q87, 39; 4Q87, 40; 1Q88, 97; 2Q88, 65; 3Q88, 49; 4Q88, 61; 1Q89, 88; 2Q89, 55; 4Q89, 51; 2Q90, 60; 3Q90, 70
Sample Analysis: 2Q89, 106–108; 1Q90, 86, 88; 3Q90, 79
Quality Control Samples: 3Q90, 123

RSA Series

Executive Summary: 1Q89, 3; 4Q90, 3
Corrections: 3Q88, 10
Sample Collection: 1Q87, 39; 3Q87, 39; 1Q88, 97; 2Q88, 65
Sample Analysis: 2Q88, 86; 1Q89, 139; 3Q89, 100; 2Q90, 76; 4Q90, 85, 87

RSB Series

Executive Summary: 3Q89, 3; 2Q90, 3
Corrections: 2Q88, 11
Sample Collection: 1Q87, 39; 3Q87, 39; 2Q88, 65
Sample Analysis: 1Q88, 97; 2Q88, 86; 4Q88, 94, 100; 1Q89, 139; 3Q89, 96, 100; 2Q90, 76

RSC Series

Corrections: 2Q88, 11
Sample Collection: 1Q87, 39; 3Q87, 39; 1Q88, 97; 2Q88, 65
Sample Analysis: 2Q88, 86–87; 3Q88, 83; 4Q88, 100; 1Q89, 139; 1Q90, 97

RSD Series

Executive Summary: 1Q87, 3; 2Q87, 2; 3Q87, 3; 4Q87, 2; 1Q88, 4; 2Q88, 2; 3Q88, 3; 4Q88, 2; 1Q89, 3; 2Q89, 3; 3Q89, 3; 4Q89, 2; 1Q90, 3; 2Q90, 3; 3Q90, 3; 4Q90, 3
Corrections: 4Q87, 8; 2Q88, 11; 3Q88, 10; 1Q89, 12, 17, 23; 3Q89, 12; 3Q90, 15

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RSD Series (cont.)

Sample Collection: 1Q87, 39; 2Q87, 34; 3Q87, 39; 4Q87, 40; 1Q88, 97; 2Q88, 65
Sample Analysis: 2Q87, 42; 2Q88, 86-87; 3Q88, 83; 4Q88, 94; 1Q89, 139; 2Q89, 115;
4Q89, 104; 1Q90, 89, 97; 2Q90, 76, 79; 4Q90, 87, 90

RSE Series

Executive Summary: 1Q87, 3; 2Q87, 2; 3Q87, 4; 4Q87, 2; 1Q88, 4; 2Q88, 2; 3Q88, 3;
4Q88, 2; 1Q89, 3; 2Q89, 3; 3Q89, 3; 4Q89, 2; 1Q90, 3; 2Q90, 3;
3Q90, 3; 4Q90, 3
Corrections: 2Q88, 11; 3Q88, 10; 1Q89, 12, 17, 23; 3Q89, 12; 1Q90, 19; 3Q90, 15
Well Maintenance: 4Q88, 14; 3Q89, 15
Well Construction: 1Q87, 19
Surveying: 1Q87, 26
Sample Collection: 1Q87, 39; 2Q87, 34; 3Q87, 39; 4Q87, 41; 1Q88, 98; 2Q88, 65; 1Q89,
88; 2Q89, 55; 2Q90, 61; 3Q90, 70; 4Q90, 70
Sample Analysis: 3Q87, 52-53; 4Q87, 55; 1Q88, 121; 2Q88, 86-87; 3Q88, 78, 83; 4Q88,
94, 100; 1Q89, 132, 139; 2Q89, 111, 115; 3Q89, 100; 4Q89, 104;
1Q90, 94, 97; 2Q90, 76, 79; 3Q90, 91; 4Q90, 87, 91

RSF Series

Executive Summary: 1Q87, 3; 2Q87, 2; 3Q87, 4; 4Q87, 2; 1Q88, 4; 3Q88, 3; 1Q89, 3;
2Q89, 3; 3Q89, 3; 4Q89, 2; 1Q90, 3; 2Q90, 3; 3Q90, 3; 4Q90, 3
Corrections: 1Q89, 17, 21, 23
Well Maintenance: 2Q88, 19; 4Q88, 14
Well Construction: 1Q87, 20-21
Surveying: 1Q87, 26
Sample Collection: 1Q87, 39; 2Q87, 34; 3Q87, 40; 4Q87, 41; 1Q88, 98; 2Q88, 66; 3Q88,
49; 4Q88, 61; 1Q89, 88; 2Q90, 61; 3Q90, 70
Sample Analysis: 3Q87, 52; 1Q88, 121; 1Q89, 132; 2Q89, 110

RSS Series

Corrections: 3Q88, 9
Well Abandonment: 1Q89, 27

RSSF Series (Incorrectly reported; should be RSS)

Corrections: 3Q88, 9
Well Abandonment: 1Q88, 17

RWM Series

Executive Summary: 1Q87, 7; 2Q87, 5; 3Q87, 8; 4Q87, 5; 1Q88, 7; 2Q88, 4; 3Q88, 5;
4Q88, 4; 1Q89, 6; 2Q89, 5; 3Q89, 6; 4Q89, 4; 1Q90, 6; 2Q90, 5;
3Q90, 6; 4Q90, 5
Corrections: 4Q87, 8; 1Q89, 14-15, 19, 22, 25; 1Q90, 18, 20
Well Construction: 3Q90, 45-46
Sample Scheduling: 2Q89, 41; 3Q89, 39; 4Q89, 36

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RWM Series (cont.)

Sample Collection: 1Q87, 39; 2Q87, 35; 3Q87, 40; 4Q87, 41; 1Q88, 98; 2Q88, 66; 3Q88, 49; 4Q88, 61; 1Q89, 89; 2Q89, 53; 3Q89, 54; 4Q89, 51; 1Q90, 78; 2Q90, 61; 3Q90, 70; 4Q90, 70

Sample Analysis: 4Q87, 55; 4Q88, 99; 1Q89, 115, 137; 2Q89, 107; 3Q89, 58, 93, 99; 4Q89, 56, 104; 1Q90, 83-84, 89, 91, 94; 2Q90, 66, 69, 75, 77; 3Q90, 95; 4Q90, 90

Quality Control Samples: 1Q90, 105; 2Q90, 91, 104

Water-Level Data: 3Q90, 705

S Series

Sample Collection: 3Q90, 70

Water-Level Data: 4Q88, 339

SB Series

Well Abandonment: 2Q88, 15-16

SBG Series

Executive Summary: 3Q86, 5; 4Q86, 4; 1Q87, 5; 2Q87, 4; 3Q87, 6; 4Q87, 4; 1Q88, 6; 2Q88, 4; 3Q88, 4; 1Q89, 5; 2Q89, 5; 3Q89, 5; 4Q89, 4; 1Q90, 6; 2Q90, 5; 3Q90, 5; 4Q90, 4

Corrections: 1Q89, 14-15, 19, 21, 24

Well Maintenance: 2Q87, 19; 4Q87, 12; 1Q89, 34

Well Construction: 1Q87, 21

Well Stabilization: 3Q87, 26

Surveying: 2Q86, 14; 1Q87, 26

Sample Scheduling: 3Q87, 30

Sample Collection: 2Q86, 17; 3Q86, 31; 4Q86, 38; 1Q87, 39; 2Q87, 35; 3Q87, 40; 4Q87, 41; 1Q88, 98; 2Q88, 66; 3Q88, 49

Sample Analysis: 2Q87, 43; 4Q87, 55; 1Q88, 124; 2Q88, 91; 3Q88, 83; 1Q89, 133; 2Q89, 107-108; 3Q89, 100; 1Q90, 88, 90, 97; 3Q90, 81

Quality Control Samples: 3Q90, 123

SCA Series

Executive Summary: 4Q89, 4; 1Q90, 6; 2Q90, 5

Well Construction: 1Q86, 10-11; 2Q86, 10-11; 1Q90, 45; 2Q90, 24

Surveying: 2Q86, 14; 3Q90, 51

Sample Collection: 4Q86, 38; 1Q87, 40; 2Q88, 66; 1Q90, 78; 2Q90, 61; 3Q90, 70-71; 4Q90, 70

Sample Analysis: 4Q89, 101; 1Q90, 85; 2Q90, 66; 3Q90, 78, 81

SDS Series

Well Abandonment: 1Q87, 11; 2Q87, 11; 4Q87, 11; 1Q88, 17

Well Maintenance: 3Q86, 14

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SLP Series

Executive Summary: 1Q88, 1, 6; 2Q88, 4; 3Q88, 4; 4Q88, 4; 2Q89, 5; 3Q89, 5; 1Q90, 6
Corrections: 1Q89, 14-15, 19, 24
Well Construction: 1Q88, 50
Well Stabilization: 1Q88, 78
Surveying: 4Q88, 48; 1Q89, 72
Sample Collection: 1Q88, 98; 2Q88, 67; 3Q88, 49; 4Q88, 61; 1Q89, 89; 2Q89, 55; 3Q89, 54; 4Q89, 51; 1Q90, 78; 2Q90, 61; 3Q90, 71; 4Q90, 71
Sample Analysis: 3Q88, 64-65, 78, 82; 2Q89, 107; 1Q90, 86, 90

SLW Series

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Sample Collection: 3Q90, 71
Water-Level Data: 4Q88, 339-341; 1Q89, 438-439; 2Q89, 434; 3Q89, 458; 4Q89, 455; 1Q90, 606-607; 2Q90, 576-577; 3Q90, 705; 4Q90, 539-540

SRW Series

Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 6; 2Q87, 5; 3Q87, 7; 4Q87, 5; 1Q88, 7; 3Q88, 5; 1Q89, 6; 2Q89, 6; 3Q89, 6; 4Q89, 4; 1Q90, 7; 2Q90, 6; 3Q90, 7; 4Q90, 5
Corrections: 4Q87, 8; 3Q88, 9; 1Q89, 15, 20-21, 25
Well Maintenance: 1Q86, 7; 2Q86, 8; 1Q88, 20; 2Q88, 19; 3Q88, 13; 4Q88, 13-14; 1Q89, 34; 3Q89, 19-20; 4Q89, 14; 1Q90, 26; 3Q90, 25
Sample Scheduling: 3Q88, 39
Sample Collection: 3Q86, 31; 4Q86, 38; 1Q87, 40; 2Q87, 35; 3Q87, 40; 4Q87, 41; 1Q88, 98; 2Q88, 67; 3Q88, 49-50; 4Q88, 62; 1Q89, 89; 2Q89, 55; 3Q89, 55; 4Q89, 51-52; 1Q90, 78; 2Q90, 61; 3Q90, 71; 4Q90, 71
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Quality Control Samples: 1Q90, 105; 2Q90, 91; 3Q90, 111, 124, 126
Water-Level Data: 4Q88, 341-347; 1Q89, 439-441; 2Q89, 434-346; 3Q89, 458-460; 4Q89, 455-456; 1Q90, 607-608; 2Q90, 577-578; 3Q90, 706-706; 4Q90, 540-541

SSS Series

Executive Summary: 4Q88, 5; 2Q89, 7; 4Q89, 5; 1Q90, 8; 3Q90, 8
Corrections: 1Q89, 26; 1Q90, 17-18
Well Abandonment: 4Q88, 12
Sample Scheduling: 4Q88, 50; 2Q89, 41
Sample Collection: 4Q88, 62-63; 1Q89, 89; 2Q89, 55-56; 3Q89, 55; 4Q89, 52; 1Q90, 78-79; 2Q90, 61-62; 3Q90, 71-72; 4Q90, 71
Sample Analysis: 4Q88, 92-93; 2Q89, 107-109; 4Q89, 100; 1Q90, 83, 85-91; 3Q90, 76, 78, 80; 4Q90, 76
Water-Level Data: 4Q88, 347

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T18N Series (Series renamed; should be NTN)

Surveying: 2Q89, 38

T18S Series (Series renamed; should be NTS)

Surveying: 2Q89, 38

TBG Series

Executive Summary: 4Q88, 5; 1Q89, 7; 2Q89, 7; 3Q89, 7; 4Q89, 6; 1Q90, 9; 2Q90, 7; 3Q90, 9; 4Q90, 7
Corrections: 1Q89, 26; 3Q89, 12; 1Q90, 17-20; 3Q90, 17-18
Well Construction: 4Q88, 21-23; 4Q89, 19
Well Stabilization: 4Q88, 39-41; 2Q90, 37-38
Surveying: 4Q88, 48; 4Q89, 31
Sample Scheduling: 4Q88, 50; 1Q89, 76; 2Q89, 41-42; 3Q89, 39; 4Q89, 36
Sample Collection: 4Q88, 63; 1Q89, 90; 2Q89, 56; 3Q89, 55; 4Q89, 52; 1Q90, 79; 2Q90, 62; 3Q90, 72; 4Q90, 71-72
Sample Analysis: 1Q89, 115-116, 118, 131-133, 135; 2Q89, 110-112; 3Q89, 96-97; 4Q89, 56; 1Q90, 92-96; 2Q90, 66, 69, 71, 75-76; 3Q90, 77-78, 85-89, 91-92, 96; 4Q90, 85-88
Quality Control Samples: 1Q90, 105, 113; 2Q90, 91, 102-104; 3Q90, 111, 125-126; 4Q90, 101, 112

TNX Series

Executive Summary: 1Q90, 9; 2Q90, 7; 4Q90, 7; 3Q90, 9
Corrections: 2Q90, 13; 3Q90, 17-18
Well Construction: 4Q89, 20-24; 3Q90, 9
Well Stabilization: 1Q90, 53-57
Surveying: 4Q89, 31-32; 1Q90, 61
Sample Collection: 1Q90, 79; 2Q90, 62; 3Q90, 72; 4Q90, 72
Sample Analysis: 1Q90, 82; 2Q90, 66-71; 3Q90, 78, 80-81, 86, 88, 90-94, 96; 4Q90, 76, 78-79, 82, 85-87
Quality Control Samples: 2Q90, 91, 103-104; 3Q90, 111, 124, 126; 4Q90, 101, 110, 112

WW Series

Well Abandonment: 1Q88, 17
Sample Scheduling: 1Q88, 84

XSB Series

Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 7; 3Q87, 7; 1Q88, 8; 2Q88, 5; 3Q88, 6; 4Q88, 5; 1Q89, 7; 2Q89, 7; 3Q89, 7; 4Q89, 6; 1Q90, 9; 2Q90, 7; 3Q90, 8; 4Q90, 7
Corrections: 4Q86, 9; 1Q87, 9; 1Q89, 15, 21, 26; 3Q89, 12; 1Q90, 19-20; 3Q90, 17-18
Well Abandonment: 3Q88, 12
Well Maintenance: 3Q86, 14; 1Q90, 26; 3Q90, 25
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Well Stabilization: 4Q88, 41-42; 2Q90, 38
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Sample Scheduling: 3Q88, 39-40; 4Q88, 50; 1Q89, 76; 2Q89, 41-42; 3Q89, 39; 4Q89, 36
Sample Collection: 3Q88, 31; 4Q88, 38; 1Q87, 40; 2Q87, 35; 3Q87, 40; 4Q87, 41; 1Q88, 99; 2Q88, 67; 4Q88, 63; 1Q89, 90; 2Q89, 56; 3Q89, 55; 4Q89, 52; 1Q90, 79; 2Q90, 62-63; 3Q90, 72; 4Q90, 72
Sample Analysis: 1Q86, 17; 3Q86, 37; 4Q86, 45; 1Q87, 50-51, 55; 3Q87, 51-52; 1Q88, 119, 121; 3Q88, 77-79; 4Q88, 93; 1Q89, 116-118, 132-133, 135, 138; 2Q89, 58-80, 82-84, 86-91, 107-108, 110-112, 114; 3Q89, 58, 68, 93, 96-98; 4Q89, 56; 1Q90, 87-88, 92-94, 96-97; 2Q90, 69, 71, 76; 3Q90, 78, 81, 85-92, 96; 4Q90, 82, 85-87
Quality Control Samples: 1Q90, 105, 113; 2Q90, 91, 102, 104; 3Q90, 111, 123-126; 4Q90, 101, 110

YSB Series

Executive Summary: 3Q86, 6; 4Q86, 5; 1Q87, 7; 3Q88, 5; 1Q89, 7; 3Q89, 7; 4Q89, 6; 1Q90, 9; 2Q90, 7; 3Q90, 8; 4Q90, 7
Well Maintenance: 3Q90, 25
Corrections: 1Q89, 21; 3Q89, 12; 1Q90, 17
Sample Scheduling: 3Q88, 39-40; 4Q88, 50; 1Q89, 76; 2Q89, 42; 3Q89, 39; 4Q89, 36
Sample Collection: 3Q88, 31; 4Q88, 38; 1Q87, 40; 2Q87, 35; 3Q87, 40; 4Q87, 41; 1Q88, 99; 2Q88, 67; 3Q88, 50; 4Q88, 63; 1Q89, 90; 4Q89, 52; 1Q90, 80; 2Q90, 63; 3Q90, 72; 4Q90, 72
Sample Analysis: 1Q87, 55; 2Q87, 43; 1Q88, 121; 3Q88, 65-68, 76, 78-79, 81-82; 4Q88, 75-76, 95, 97; 1Q89, 117-118, 135; 2Q89, 58-89, 108, 110-111, 114; 3Q89, 58, 68, 92-93, 95-98; 4Q89, 56, 66-67, 103; 1Q90, 87, 89, 92-94; 2Q90, 69, 75-76; 3Q90, 77, 80, 86, 88-89, 91; 4Q90, 84-87
Quality Control Samples: 1Q90, 105, 113; 2Q90, 91, 102-105; 3Q90, 111, 124-126

YSC Series

Executive Summary: 2Q90, 5; 3Q90, 5; 4Q90, 5
Well Maintenance: 2Q90, 18; 3Q90, 25
Well Construction: 2Q90, 24-27
Well Stabilization: 2Q90, 38-40
Surveying: 3Q89, 35; 2Q90, 44
Sample Collection: 2Q90, 63; 3Q90, 72-73; 4Q90, 72
Sample Analysis: 2Q90, 66; 3Q90, 83, 86, 88, 90, 92-94; 4Q90, 77-78, 86-89
Quality Control Samples: 4Q90, 101, 111-112
Water-Level Data: 2Q90, 578; 3Q90, 706; 4Q90, 541

Z Series

Executive Summary: 1Q88, 4; 2Q88, 2; 3Q88, 3; 4Q88, 2; 1Q89, 3; 4Q89, 3
Corrections: 1Q87, 9; 1Q89, 13, 15, 17, 21-23
Well Abandonment: 2Q88, 16; 4Q90, 15
Surveying: 2Q86, 14-15
Sample Scheduling: 1Q89, 74; 2Q89, 40; 3Q89, 40; 4Q89, 37
Sample Collection: 2Q87, 35; 1Q88, 99; 2Q88, 67; 3Q89, 56; 4Q89, 52
Sample Analysis: 2Q88, 86; 3Q88, 83; 1Q89, 139; 3Q89, 90; 3Q90, 97

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ZBG Series

Executive Summary: 4Q88, 4; 2Q90, 5; 3Q90, 6
Corrections: 4Q87, 8; 1Q88, 11; 1Q89, 24
Well Abandonment: 2Q87, 11
Well Maintenance: 2Q88, 19; 3Q89, 16; 3Q90, 25
Well Construction: 2Q87, 21-22
Well Stabilization: 2Q87, 23; 1Q89, 68
Surveying: 2Q87, 24
Sample Scheduling: 4Q87, 29; 1Q88, 84; 2Q88, 52; 3Q88, 40; 1Q89, 74; 2Q89, 41; 3Q89, 41; 4Q89, 37
Sample Collection: 2Q87, 35; 3Q87, 40; 4Q87, 42; 1Q88, 99; 2Q88, 67; 1Q89, 90; 2Q89, 56; 4Q89, 52; 1Q90, 80; 2Q90, 63
Sample Analysis: 3Q87, 52; 2Q88, 77, 85, 89, 93; 4Q88, 76-77, 93-94, 97-98; 2Q89, 107-108; 3Q89, 91, 99; 4Q89, 56; 1Q90, 88; 2Q90, 68, 72; 3Q90, 77, 80, 96; 4Q90, 76-77
Quality Control Samples: 1Q90, 105; 2Q90, 91, 102-105; 3Q90, 111; 4Q90, 111

ZDT Series

Executive Summary: 1Q88, 1, 6; 2Q88, 4; 3Q88, 4; 4Q88, 4; 1Q89, 5; 2Q89, 5; 3Q89, 5; 1Q90, 6; 3Q90, 6
Corrections: 1Q89, 14, 19, 24
Well Construction: 1Q88, 51
Well Stabilization: 1Q88, 78
Surveying: 4Q88, 48; 1Q89, 72
Sample Scheduling: 3Q89, 41
Sample Collection: 1Q88, 99; 2Q88, 67
Sample Analysis: 3Q88, 66-67; 4Q88, 77-78, 97-98; 2Q89, 107; 1Q90, 86, 88; 3Q90, 76

ZW Series

Executive Summary: 1Q88, 4; 2Q88, 2; 3Q88, 3; 1Q89, 3; 2Q89, 3; 3Q89, 3; 4Q89, 3; 1Q90, 4; 3Q90, 4; 4Q90, 3
Corrections: 1Q89, 13, 17, 21, 23; 4Q89, 9
Well Maintenance: 3Q88, 14
Surveying: 2Q88, 14-15
Sample Collection: 2Q87, 35; 1Q88, 99; 2Q88, 67
Sample Analysis: 1Q88, 124; 2Q88, 86; 3Q88, 83; 1Q89, 139; 3Q89, 92-93, 99

241-H Series

Executive Summary: 3Q87, 5; 4Q87, 4; 1Q88, 6; 2Q88, 4; 1Q90, 5
Corrections: 2Q88, 11; 1Q89, 13
Sample Collection: 2Q87, 35; 3Q87, 40; 4Q87, 42; 1Q88, 99; 2Q88, 67; 4Q89, 53; 2Q90, 63; 3Q90, 73
Sample Analysis: 2Q87, 44; 2Q88, 85; 4Q89, 105

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