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Groundwater Monitoring Report for the October 2004 Sampling Event Groundwater Incident No. 10032

Girmes Site, Formerly SKF USA Inc.

Buncombe County, North Carolina

December 2004

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Certification

The hydrogeology work for the Girmes Site, formerly SKF USA Inc., in Buncombe County, North Carolina, was performed by an RMT, Inc. consulting hydrogeologist in support of RMT North Carolina, Inc.

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Executive Summary

SKF USA Inc. (SKF) operates a groundwater recovery and treatment system at the former J.L. deBall Girmes of America (Girmes) site in Asheville, North Carolina. The system operated continuously from March 1998 until November 11, 2002. Since November 2002, the recovery system has operated on a pulsed pumping cycle. Each cycle consists of six weeks of system operation followed by six weeks of system shut down.

Groundwater and surface water samples are collected at the site on a semiannual basis. Groundwater elevations are measured in monitoring and recovery wells during each sampling event. The latest sampling event was conducted during the week of October 11, 2004. On the northeast side of the Girmes facility, trichloroethene (TCE) was detected in five wells (MW-2, MW-4, MW-5, MW-9, and MW-20) at concentrations exceeding the North Carolina 2L standard. 1,2-Dichloroethene (1,2-DCE) was detected in two wells (MW-4 and MW-5) at concentrations exceeding the 2L standard. Vinyl chloride was detected in wells MW-4 and MW-13 at concentrations exceeding the 2L standard.

On the southwest side of the Girmes facility, three wells were dry and could not be sampled. Three of the remaining monitoring wells (MW-19, MW-24, and MW-28A) and recovery wells RW-1 and RW-4 had TCE concentrations exceeding the 2L standard. 1,2-DCE was detected in monitoring wells MW-26R and MW-28A, and recovery wells RW-1 and RW-4 at concentrations exceeding the 2L standard. Vinyl chloride was detected in well MW-26R at a concentration exceeding the 2L standard.

None of the surface water samples had detections of TCE, 1,2-DCE, or vinyl chloride.

The estimated amount of groundwater that was recovered and treated during May 2004 through October 2004 is 3.48 million gallons. It is estimated that over 29 pounds of TCE were removed during that period. Pulse pumping of the groundwater recovery system has increased the amount of TCE removed on an annual basis while significantly reducing the volume of water treated. It is recommended that pulse pumping of the recovery system continue in 2005.

Section 1
Introduction

The Girmes site is a former textile plant located on Old Highway 74 East in Asheville, North Carolina. Girmes owned the site from 1973 until 2001 when it was purchased by LMC, LLC. The site was formerly occupied by SKF from approximately 1960 to 1973. The North Carolina Department of Environment and Natural Resources (NC DENR) issued SKF a Notice of Violation (NOV) on April 2, 1993 (Groundwater Incident Number 10032). In response to the NOV and associated correspondence, SKF conducted comprehensive site assessment (CSA) activities in 1993 and 1994. Volatile organic compounds (VOCs), in particular TCE, 1,2-DCE, and vinyl chloride, were found in groundwater at the site. The results of the CSA were submitted to NC DENR in November 1994. Following the CSA, a corrective action plan (CAP) to address the VOC-impacted groundwater was prepared and submitted to NC DENR in October 1996.

RMT North Carolina, Inc. (RMT) was retained by SKF to implement the CAP. A groundwater recovery system consisting of three groundwater recovery wells and an air stripper unit was installed in 1997 and early 1998. The system began operation on March 4, 1998.

The CAP specified that groundwater elevations were to be measured in all wells on a quarterly basis. Water samples were to be collected from all 29 monitoring wells, 3 recovery wells, and 4 surface water stations, on a semiannual basis. Thirteen of these monitoring wells, along with the three recovery wells, were also to be sampled quarterly. The CAP specified that the samples were to be analyzed for TCE, 1,2-DCE, and vinyl chloride.

On December 11, 2000, NC DENR approved reducing the monitoring frequency from quarterly to semiannually. Beginning in 2001, the 29 monitoring wells, 3 recovery wells, and 4 surface water stations were sampled on a semiannual basis. Groundwater elevations were also measured on a semiannual basis. Water samples and elevations are now collected in April and October of each year.

In August 2002, RMT proposed to switch the operation of the groundwater recovery system from continuous pumping to a pulsed pumping schedule in an effort to increase contaminant recovery. In October 2002, RMT proposed further modifications to the pumping cycle. Under the pulsed pumping schedule, the groundwater recovery system would operate one cycle per quarter. Each cycle consists of 6 weeks of pumping followed by 6 weeks of no pumping.

Ms. Kay Dechant of NC DENR approved the modified pulse pumping plan on October 14, 2002, and the first pumping cycle was initiated on November 11, 2002.

The latest semiannual sampling event was conducted during the week of October 11, 2004. This report presents results of the October 2004 sampling event.

Section 2
Groundwater Elevations

The recovery system has been operating on a pulsed pumping cycle since November 11, 2002. During this monitoring period, groundwater levels were measured on October 5, 2004, prior to system start-up (that same day) and on October 11, 2004, prior to the groundwater sampling event. Water levels are summarized in Table 1 along with pre-startup elevations measured in January 1998, and historical water levels measured since system startup.

Water levels measured on October 5, 2004, were used to construct the water table map shown on Plate 1. These water levels reflect water table conditions near the end of the system-off cycle. As specified in the CAP, hydrographs were also prepared for bedrock wells MW-4, MW-5, MW-14, MW-17, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-27, and MW-28A. These hydrographs are presented in Appendix A.

The hydrographs for wells MW-14, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, and MW-27 and historical water table maps have shown a cone of depression around the recovery wells during times of system operation. As expected, the October 2004 (see Plate 1) water levels, measured before the recovery system was restarted following an "off" cycle, do not show this cone of depression around the recovery system. However, water levels measured on October 11, 2004, six days following system start up, showed a quick return of the cone of depression.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		01/21/98*	07/29/98	10/15/98	01/05/99	04/20/99	07/01/99
MW-1	2,123.16	2,066.52	2,070.69	2,069.22	2,065.99	2,065.31	2,064.71
MW-2	2,074.52	2,053.45	2,053.59	2,052.65	2,052.87	2,052.94	2,053.45
MW-4	2,122.38	2,061.38	2,062.27	2,061.36	2,060.89	2,061.75	2,061.39
MW-5	2,121.44	2,058.17	2,059.24	2,058.29	2,057.45	2,057.11	2,056.94
MW-6	2,102.22	2,058.96	2,060.80	2,059.50	2,058.56	2,058.31	2,057.82
MW-7	2,071.17	2,052.76	2,052.82	2,052.42	2,052.34	2,052.44	2,052.36
MW-8	2,075.22	2,054.34	2,054.60	2,053.57	2,053.26	2,053.89	2,054.10
MW-9	2,072.29	2,053.32	2,054.37	2,053.61	2,053.15	2,054.50	2,053.45
MW-10	2,076.30	2,052.95	2,033.79	2,050.70	2,051.08	2,053.25	2,051.79
MW-11	2,109.60	2,046.88	2,044.25	2,041.25	2,039.26	2,039.45	2,038.37
MW-12	2,040.65	2,038.44	2,032.49	2,031.57	2,033.09	2,031.37	2,033.56
MW-13	2,044.67	2,037.38	2,033.76	2,031.99	2,031.49	2,033.42	2,032.25
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,046.02	2,046.09	2,045.67	2,045.25	2,045.75	2,045.25
MW-15A	2,058.16	2,047.38	2,046.75	2,046.11	2,045.73	2,046.20	2,045.95
MW-16	2,059.22	2,052.79	2,052.74	2,052.75	2,052.70	2,052.77	2,052.79
MW-16A	2,059.33	2,053.16	2,053.04	2,053.07	2,053.15	2,053.08	2,052.96
MW-17	2,056.71	2,050.77	2,046.05	2,043.77	2,043.96	2,047.10	2,045.47
MW-18	2,036.36	2,023.81	<2010.30	<2010.30	<2010.30	<2010.30	<2010.30
MW-19	2,037.74	2,018.32	2,013.29	2,012.86	2,013.18	2,013.35	2,012.96
MW-20	2,027.36	2,013.59	2,012.86	2,012.30	2,012.28	2,012.59	2,012.27
MW-21	2,036.74	2,022.53	<2006.90	<2006.90	<2006.90	<2006.90	<2006.90
MW-22	2,082.12	2,038.87	2,037.80	2,035.89	2,027.47	<2025.90	<2025.90
MW-23	2,027.54	2,020.41	2,010.26	2,009.62	2,010.42	2,010.34	2,010.49
MW-24	2,035.05	2,021.21	2,010.71	2,009.78	2,010.80	2,010.82	2,010.72
MW-26R	2,021.35	2,015.12	2,015.23	2,014.08	2,014.64	2,015.35	2,014.76
MW-27	2,051.08	2,025.26	2,020.13	2,019.38	2,019.83	2,021.15	2,021.03
MW-28	2,022.48	2,012.11	2,011.33	2,011.37	2,011.70	2,012.22	2,011.57
MW-28A	2,022.69	2,012.36	2,011.22	2,011.11	2,011.52	2,011.30	2,011.33
RW-1	2,031.70	NM	1,955.30	1,951.93	1,968.90	1,961.13	1,967.09
RW-2	2,071.70	NM	2,051.09	2,050.32	2,049.72	2,050.52	2,050.15
RW-3	2,033.40	NM	1,991.13	1,996.98	1,935.75	1,951.25	1,935.88
RW-4	2,032.10	NM	1,982.98	1,982.30	1,986.74	1,985.84	1,984.70

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		10/25/99	01/25/00	04/18/00	08/04/00	10/23/00	04/09/01
MW-1	2,123.16	2,063.46	2,064.29	2,062.12	2,062.11	2,061.57	2,060.56
MW-2	2,074.52	2,052.39	2,052.28	2,053.06	2,052.65	2,052.18	NM
MW-4	2,122.38	2,060.63	2,060.43	2,061.84	2,060.73	2,060.30	2,060.67
MW-5	2,121.44	2,055.88	2,055.78	2,056.08	2,056.01	2,055.68	2,055.34
MW-6	2,102.22	2,056.72	2,056.37	2,056.94	2,056.42	2,056.02	2,055.79
MW-7	2,071.17	2,051.88	2,051.97	2,052.55	2,052.35	2,051.73	2,052.15
MW-8	2,075.22	2,052.65	2,052.46	2,054.46	2,053.82	2,053.47	2,053.96
MW-9	2,072.29	2,052.67	2,052.98	2,053.75	2,053.39	2,052.41	2,053.29
MW-10	2,076.30	2,049.77	2,052.32	2,055.15	2,052.30	2,051.37	2,053.76
MW-11	2,109.60	2,037.19	2,036.91	2,037.79	2,038.05	2,036.62	2,035.70
MW-12	2,040.65	2,028.13	2,030.41	2,036.74	NM	2,026.78	2,034.46
MW-13	2,044.67	2,030.23	2,030.32	2,034.76	2,032.18	2,029.64	2,032.54
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	2,039.83	<2040.20	<2040.20
MW-15	2,058.15	2,044.59	2,044.50	2,047.26	NM	2,044.33	2,047.66
MW-15A	2,058.16	2,045.61	2,045.55	2,046.20	NM	2,045.06	2,045.81
MW-16	2,059.22	2,052.61	2,052.77	2,052.51	NM	2,052.62	2,052.76
MW-16A	2,059.33	2,052.89	2,052.96	2,052.84	NM	2,052.81	2,052.95
MW-17	2,056.71	2,042.74	2,043.09	2,048.16	NM	2,041.97	2,045.15
MW-18	2,036.36	<2010.30	<2010.30	<2010.30	<2010.30	<2010.30	<2010.30
MW-19	2,037.74	2,013.09	2,013.61	2,014.85	2,014.77	2,012.66	2,014.69
MW-20	2,027.36	2,011.89	2,011.77	2,012.61	2,012.12	2,011.57	2,012.24
MW-21	2,036.74	<2006.90	<2006.90	<2006.90	2,007.11	<2006.90	<2006.90
MW-22	2,082.12	<2025.90	<2025.90	<2025.90	<2025.90	<2025.90	<2025.90
MW-23	2,027.54	2,011.70	2,011.25	2,013.30	2,016.40	2,010.26	2,014.60
MW-24	2,035.05	2,011.58	2,011.17	2,013.45	2,015.90	2,010.33	2,014.72
MW-26R	2,021.35	2,014.25	2,014.05	2,015.84	2,015.55	2,014.78	2,015.71
MW-27	2,051.08	2,019.80	2,021.11	2,021.81	2,021.95	2,019.20	2,021.96
MW-28	2,022.48	2,011.64	2,012.47	2,011.97	2,011.65	2,011.55	2,011.80
MW-28A	2,022.69	2,011.11	2,011.54	2,011.72	2,011.44	2,011.15	2,011.55
RW-1	2,031.70	1,967.95	1,950.66	1,960.80	2,005.76	1,955.56	1,989.42
RW-2	2,071.70	NM	NM	2,050.65	2,049.83	2,049.19	2,050.18
RW-3	2,033.40	1,935.77	1,991.85	1,936.00	1,961.15	1,939.67	1,976.97
RW-4	2,032.10	1,987.49	1,976.54	1,987.07	1,994.01	1,977.30	1,994.98

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		10/03/01	04/01/02	10/21/02	01/03/03	02/14/03	03/31/03
MW-1	2,123.16	2,059.85	2,059.20	2,058.11	2,058.43	2,058.17	<2056.03
MW-2	2,074.52	2,052.32	2,052.43	2,051.96	2,052.42	2,052.13	2,052.56
MW-4	2,122.38	2,060.60	2,061.03	2,059.58	2,060.86	2,062.00	2,062.89
MW-5	2,121.44	2,055.35	2,055.13	2,054.60	2,054.85	2,055.04	2,055.61
MW-6	2,102.22	2,055.31	2,054.24	2,054.65	2,055.44	2,054.76	2,055.34
MW-7	2,071.17	2,051.89	2,052.12	2,051.75	2,052.07	2,051.87	2,052.18
MW-8	2,075.22	2,052.65	2,053.34	2,052.58	2,056.57	2,053.34	2,053.99
MW-9	2,072.29	2,052.96	2,053.71	2,052.83	2,050.62	2,053.52	2,054.11
MW-10	2,076.30	2,053.34	2,056.66	2,054.94	2,055.18	2,055.64	2,056.51
MW-11	2,109.60	2,034.17	2,036.35	2,033.34	2,035.15	2,035.79	2,038.43
MW-12	2,040.65	2,027.51	2,032.83	2,028.36	2,034.33	2,033.16	2,036.75
MW-13	2,044.67	2,030.29	2,032.07	2,030.47	2,034.73	2,031.78	2,036.92
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,044.68	2,044.85	2,044.46	2,045.42	2,045.51	2,045.86
MW-15A	2,058.16	2,045.27	2,045.81	2,043.00	2,046.14	NM	2,046.52
MW-16	2,059.22	2,052.60	2,052.62	2,052.50	2,052.62	2,052.52	2,052.62
MW-16A	2,059.33	2,052.80	2,054.65	2,052.71	2,052.88	2,053.37	2,053.03
MW-17	2,056.71	2,042.34	2,045.26	2,042.44	2,046.83	2,044.54	2,051.33
MW-18	2,036.36	<2010.30	<2010.30	<2010.30	2,019.88	<2010.30	2,021.02
MW-19	2,037.74	2,012.39	2,013.55	2,012.59	2,016.28	2,013.43	2,017.76
MW-20	2,027.36	2,011.79	2,012.21	2,011.78	2,012.43	2,012.05	2,012.74
MW-21	2,036.74	<2006.90	<2006.90	<2006.90	2,011.95	<2006.90	2,021.51
MW-22	2,082.12	<2025.90	<2025.90	<2025.90	2,025.97	<2025.90	<2025.90
MW-23	2,027.54	2,009.88	2,010.81	2,010.50	2,018.37	2,010.83	2,019.94
MW-24	2,035.05	2,009.90	2,010.79	2,010.73	2,020.03	2,010.97	2,021.10
MW-26R	2,021.35	2,014.55	2,013.95	2,014.16	2,017.18	NM	2,018.12
MW-27	2,051.08	2,019.06	2,020.42	2,019.50	2,023.57	2,020.05	2,024.24
MW-28	2,022.48	2,011.57	2,012.73	2,011.63	2,012.18	2,011.47	2,011.89
MW-28A	2,022.69	2,011.03	2,011.79	2,011.08	2,011.91	2,011.02	2,011.70
RW-1	2,031.70	1,953.68	1,958.29	1,949.65	1,996.87	1,949.55	2,019.87
RW-2	2,071.70	2,049.89	2,050.96	2,049.99	2,050.72	2,050.89	2,051.43
RW-3	2,033.40	1,950.43	2,004.52	2,004.01	2,017.20	2,005.00	2,018.52
RW-4	2,032.10	1,966.66	1,973.11	1,980.49	2,010.00	1,983.13	2,020.02

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		06/26/03	08/11/03	10/06/03	11/07/03	03/29/04	05/17/04
MW-1	2,123.16	<2056.03	2,061.71	2,061.84	2,061.64	2,061.54	2,061.81
MW-2	2,074.52	2,053.32	2,053.38	2,052.77	2,052.69	2,052.83	2,052.97
MW-4	2,122.38	2,062.90	2,062.57	2,062.23	2,061.79	2,063.54	2,062.90
MW-5	2,121.44	2,057.56	2,057.84	2,057.65	2,057.45	2,057.73	2,058.22
MW-6	2,102.22	2,056.90	2,057.00	2,056.37	2,056.37	2,056.26	2,056.77
MW-7	2,071.17	2,052.75	2,052.72	2,052.26	2,052.31	2,052.39	2,052.52
MW-8	2,075.22	2,054.81	2,054.51	2,053.72	2,053.75	2,055.18	2,055.10
MW-9	2,072.29	2,054.87	2,054.58	2,054.06	2,053.85	2,054.46	2,054.94
MW-10	2,076.30	2,055.56	2,054.71	2,053.36	2,054.01	2,054.64	2,055.19
MW-11	2,109.60	2,041.65	2,041.00	2,040.15	2,039.62	2,041.93	2,042.55
MW-12	2,040.65	2,035.62	2,034.65	2,031.28	2,031.81	2,034.84	2,034.87
MW-13	2,044.67	2,036.62	2,035.70	2,033.80	2,034.27	2,035.01	2,034.96
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,046.52	2,046.40	2,046.01	2,045.65	2,046.19	2,046.17
MW-15A	2,058.16	2,047.26	2,047.21	2,046.52	2,046.44	2,046.74	2,046.06
MW-16	2,059.22	2,052.65	2,052.62	2,052.61	2,052.57	2,052.60	2,052.61
MW-16A	2,059.33	2,052.90	2,052.83	2,052.84	2,052.88	2,052.97	2,052.99
MW-17	2,056.71	2,049.92	2,048.88	2,046.15	NM	2,050.55	2,050.16
MW-18	2,036.36	2,020.74	<2010.30	2,020.29	<2010.30	2,021.09	2,010.35
MW-19	2,037.74	2,016.54	2,014.03	2,015.66	2,013.65	2,016.02	2,013.47
MW-20	2,027.36	2,013.30	2,013.13	2,012.52	2,012.58	2,012.55	2,012.61
MW-21	2,036.74	2,021.09	2,006.29	2,020.51	2,006.02	2,020.74	2,006.06
MW-22	2,082.12	2,037.97	<2025.90	2,035.72	2,031.65	2,027.98	2,026.87
MW-23	2,027.54	2,019.63	2,012.17	2,018.88	2,011.72	2,019.02	2,021.39
MW-24	2,035.05	2,020.81	2,012.72	2,020.15	2,012.03	2,020.48	2,011.16
MW-26R	2,021.35	2,017.73	2,016.94	2,017.03	2,015.36	2,017.23	2,004.40
MW-27	2,051.08	2,023.77	2,021.53	2,023.04	2,020.75	2,023.57	2,020.52
MW-28	2,022.48	2,011.65	2,011.59	2,011.60	2,011.84	2,011.66	2,011.44
MW-28A	2,022.69	2,011.51	2,011.54	2,011.22	2,011.55	2,011.31	2,010.90
RW-1	2,031.70	2,019.75	1,958.92	2,019.20	1,961.28	2,019.27	1,957.15
RW-2	2,071.70	2,052.00	2,050.88	2,050.97	2,051.01	2,051.52	2,051.87
RW-3	2,033.40	2,018.65	2,005.44	2,018.07	2,005.19	2,018.06	2,004.55
RW-4	2,032.10	2,020.14	1,987.55	2,019.59	1,987.53	2,019.85	1,986.52

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER ELEVATION AND DATE OF MEASUREMENT	
		10/05/04	10/11/04
MW-1	2,123.16	2062.06	2062.16
MW-2	2,074.52	2053.52	2053.34
MW-4	2,122.38	2062.63	2062.73
MW-5	2,121.44	2058.46	2057.78
MW-6	2,102.22	2057.02	2057.11
MW-7	2,071.17	2052.78	2053.03
MW-8	2,075.22	2055.47	2055.19
MW-9	2,072.29	2055.07	2055.00
MW-10	2,076.30	2054.75	2054.52
MW-11	2,109.60	2042.59	2042.87
MW-12	2,040.65	2036.36	2035.32
MW-13	2,044.67	2037.05	2035.97
MW-14	2,119.88	<2040.20	<2040.20
MW-15	2,058.15	2046.44	2046.40
MW-15A	2,058.16	2046.91	2047.72
MW-16	2,059.22	2052.64	2052.71
MW-16A	2,059.33	2053.01	2052.93
MW-17	2,056.71	2051.08	2049.80
MW-18	2,036.36	2021.13	<2010.30
MW-19	2,037.74	2016.52	2015.47
MW-20	2,027.36	2013.68	2013.38
MW-21	2,036.74	2021.41	<2006.90
MW-22	2,082.12	2037.19	2037.97
MW-23	2,027.54	2019.61	2014.71
MW-24	2,035.05	2021.22	2015.46
MW-26R	2,021.35	2017.76	2016.37
MW-27	2,051.08	2024.59	2022.53
MW-28	2,022.48	2011.58	2011.39
MW-28A	2,022.69	2011.66	2011.15
RW-1	2,031.70	2019.87	1980.09
RW-2	2,071.70	2052.00	2051.97
RW-3	2,033.40	2018.83	2010.75
RW-4	2,032.10	2020.30	1995.35

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Section 3
Groundwater and Surface Water Quality

Groundwater samples were collected from 26 monitoring wells and from two recovery wells, RW-1 and RW-4, on October 12 through October 14, 2004. Recovery well RW-3 has been off-line since April 2002 because of low yield and related operational problems; thus, no groundwater samples have been collected at this location. Surface water samples were also collected from the four surface water stations, SW-1, SW-2, SW-3, and SW-4. Sampling locations are shown on Figure 1 and Plate 1. Monitoring well MW-14 was dry at that time due to drawdown and could not be sampled. Groundwater samples were analyzed for TCE, 1,2-DCE, and vinyl chloride. In addition, six monitoring wells and two recovery wells, RW-1 and RW-4, were analyzed for tetrachloroethene (PCE). Analytical results are summarized in Table 2. Laboratory analytical reports are presented in Appendix B. Table 3 and Table 4 present summaries of historical concentrations of TCE and 1,2-DCE.

3.1 Standard Monitoring Program

During the October sampling event, 18 monitoring wells were sampled on the northeast side of the Girmes facility (Plate 1). TCE was detected in samples collected from eight wells, with the concentrations exceeding the North Carolina (NC) 2L standard of 0.0028 mg/L in five of the wells, MW-2, MW-4, MW-5, MW-9, and MW-20. TCE concentrations increased in wells MW-2, MW-7, MW-15A, and MW-20. Five wells, MW-4, MW-5, MW-9, MW-10, and MW-11 had a decrease in TCE concentrations since last sampled in March/April 2004. Monitoring well MW-5, in particular has demonstrated a decreasing trend in TCE concentrations since concentrations peaked in October 2000.

1,2-DCE was detected in samples collected from five monitoring wells. The detected concentrations exceeded the NC 2L standard of 0.07 mg/L in two wells—MW-4 and MW-5. The 1,2-DCE concentrations remained relatively unchanged in the five monitoring wells MW-4, MW-5, MW-9, MW-10, and MW-20.

Vinyl chloride was detected in samples collected from two monitoring wells—MW-4 and MW-13. The detected concentrations exceeded the NC 2L standard of 0.000015 mg/L. Historically, vinyl chloride has been detected in most samples collected from MW-13, and in some of the samples collected from MW-4 since October 1999.

On the southwest side of the Girmes facility, eight monitoring wells—MW-19, MW-22, MW-23, MW-24, MW-26R, MW-27, MW-28, and MW-28A—and 2 recovery wells—RW-1 and RW-4—were sampled. Monitoring wells MW-14, MW-18, and MW-21 were dry and could not be sampled. This was due in part to the fact that the October 2004 sampling event was conducted at the beginning of a 6-week system-on cycle and drawdown from the pumping of the recovery wells resulted in insufficient water for sampling in monitoring wells MW-18 and MW-21. Recovery well RW-3 was not operating during the October 2004 sampling event and therefore was not sampled.

TCE was detected in groundwater samples collected from three monitoring wells (MW-19, MW-24, and MW-28A) and both recovery wells, at concentrations exceeding the NC 2L standards. TCE was also detected in one monitoring well (MW-23) at a concentration below the NC 2L standard. 1,2-DCE was detected in groundwater samples collected from two of the monitoring wells (MW-26R and MW-28A) and in both recovery wells (RW-1 and RW-4), at concentrations below the NC 2L standard.

TCE concentrations increased in samples collected from monitoring well MW-28A, and recovery well RW-1, since last sampled in March/April 2004. TCE concentrations detected in samples collected from monitoring wells MW-19, MW-24, MW-26R have decreased since last sampled in March/April 2004. The TCE concentration in RW-4 has remained unchanged since it was last sampled.

Concentrations of 1,2-DCE have increased slightly in the samples collected from MW-28A and RW-1 since last sampled in March/April 2004. Concentrations of 1,2-DCE have decreased in samples collected from monitoring well MW-26R since last sampled in March/April 2004. The 1,2-DCE concentration in RW-4 has remained generally unchanged since it was last sampled.

Vinyl chloride was detected in the sample collected from monitoring well MW-26R on the southwest side of the Girmes facility at a concentration exceeding the NC 2L standard. Monitoring well MW-26R is located on Dotson's property on the southwest side of Gashes Creek. The detected concentration in monitoring well MW-26R, 0.009 mg/L, has declined since the previous sampling event and remains above the NC 2L standard.

Surface water samples were collected from four surface water stations during the October sampling event, SW-1, SW-2, SW-3, and SW-4. None of the surface water samples collected had detections of TCE, 1,2-DCE, or vinyl chloride.

3.2 Additional Analytical Parameter

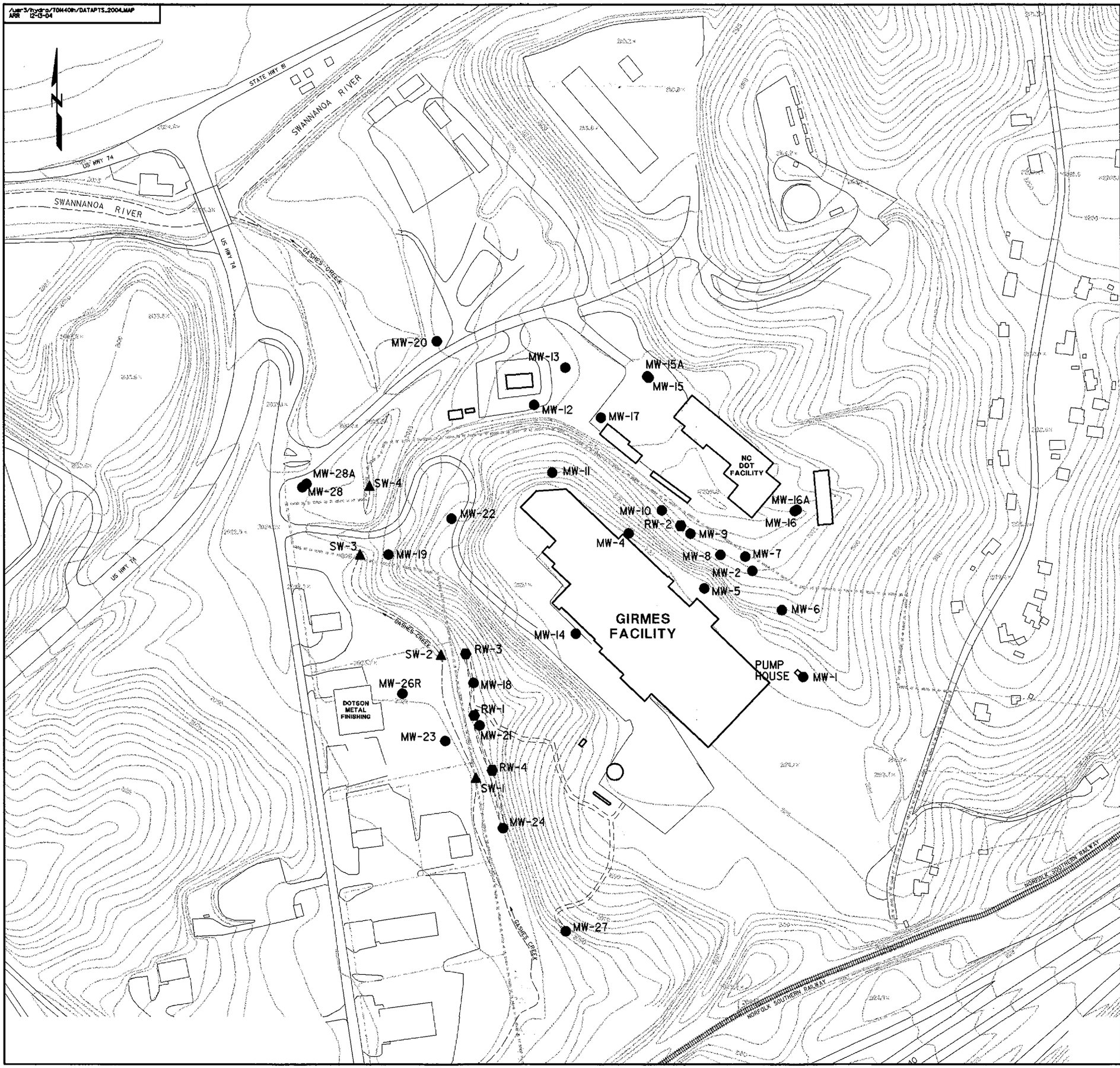
Since shortly after startup of the groundwater recovery system, PCE was found in the influent to the treatment system. Select monitoring wells sampled during the January 1999 monitoring event were analyzed for PCE in addition to the standard analytical parameters. The January 1999 analytical results, along with historical groundwater analytical data collected at the site during the CSA, led SKF to conclude that the PCE and other VOCs found on the southwest side of Gashes Creek have no relationship to the affected groundwater found on the Girmes facility.

In the groundwater monitoring report for the January 1999 sampling event, SKF modified the groundwater monitoring program to continue monitoring all of the wells specified in the CAP according to the specified schedule. In addition to TCE, 1,2-DCE, and vinyl chloride, recovery wells RW-1, RW-3, and RW-4 and select monitoring wells would also be sampled for PCE.

During the October 2004 sampling event, monitoring wells MW-19, MW-23, MW-24, MW-26R, MW-28, and MW-28A and the two operating recovery wells were analyzed for PCE. A sample could not be obtained from monitoring wells MW-18 and MW-21 because these wells were dry at the time of sampling. Analytical results are included in Table 2. PCE was detected in two monitoring wells (MW-23 and MW-28A) and recovery well RW-1, at concentrations exceeding the NC 2L standards. The concentration of PCE detected in samples collected from monitoring well MW-28A and recovery well RW-1 has increased since last sampled in March/April 2004. The concentration of PCE has decreased in the sample collected from well MW-23 since last sampled in March/April 2004. When operating, recovery wells RW-1 and RW-4 recover groundwater from the southwest side of Gashes Creek.

The analytical results for PCE confirm the results from previous sampling events since January 1999. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility. However, SKF will continue to analyze groundwater samples from wells MW-18, MW-19, MW-21, MW-23, MW-24, MW-26R, MW-28, MW-28A, RW-1, RW-3, and RW-4 for PCE to monitor concentration trends and their effects on the groundwater recovery system.

/usr3/hydro/70H40h/DATAPTS_2004.MAP
ARR 12-13-04



LEGEND

▲ SW-1	SURFACE WATER SAMPLING LOCATION
● MW-15	MONITORING WELL LOCATION
----------	PROPERTY LINE - OTHER
—900—	TOPOGRAPHIC CONTOUR

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES WERE INCLUDED AS PART OF THE BASE MAP.

0 100 200 300 400
SCALE IN FEET

PROJECT MGR:	D.O. MADISON
PREPARED BY:	J. S. BECHTOLD
DRAWN BY:	J. S. BECHTOLD
CHECKED BY:	D.O. MADISON
APPROVED BY:	
APPROVED BY:	D. O. MADISON
APPROVED BY:	
DATE:	DECEMBER 2004
JOB NO:	70H4

FMT

100 Verdae Boulevard
P.O. Box 16778
Greenville, SC 29606
(864) 288-0030

LOCATION OF DATA POINTS

GIRMES SITE, formerly SKF USA
ASHEVILLE, NORTH CAROLINA

SCALE: AS NOTED

FIGURE NO. 1

Table 2
Analytical Results for Groundwater and Surface Water Samples

STATION[1]	SAMPLE DATE	TCE	1,2-DCE, TOTAL	VINYL CHLORIDE	PCE
NC 2L Standard		**0.0028**	**0.07**	**0.000015**	**0.0007**
MW-01	13-Oct-04	<0.001	<0.001	<0.001	NA
MW-02	12-Oct-04	**0.0031**	<0.001	<0.001	NA
MW-04	13-Oct-04	**0.28**	**0.2**	**0.0013**	NA
MW-05	13-Oct-04	**5.9**	**0.34**	<0.001	NA
MW-06	12-Oct-04	<0.001	<0.001	<0.001	NA
MW-07	12-Oct-04	0.0022	<0.001	<0.001	NA
MW-08	12-Oct-04	<0.001	<0.001	<0.001	NA
MW-09	12-Oct-04	**0.19**	0.0097	<0.001	NA
MW-10	12-Oct-04	<0.001	0.0085	<0.001	NA
MW-11	12-Oct-04	0.0017	<0.001	<0.001	NA
MW-12	14-Oct-04	<0.001	<0.001	<0.001	NA
MW-13	14-Oct-04	<0.001	<0.001	**0.0068**	NA
MW-15	14-Oct-04	<0.001	<0.001	<0.001	NA
MW-15A	14-Oct-04	0.0011	<0.001	<0.001	NA
MW-16	14-Oct-04	<0.001	<0.001	<0.001	NA
MW-16A	14-Oct-04	<0.001	<0.001	<0.001	NA
MW-17	14-Oct-04	<0.001	<0.001	<0.001	NA
MW-19	13-Oct-04	**0.0085**	<0.001	<0.001	<0.001
MW-19 (DU-04401)	13-Oct-04	**0.0078**	<0.001	<0.001	<0.001
MW-20	14-Oct-04	**0.008**	0.0041	<0.001	NA
MW-22	13-Oct-04	<0.001	<0.001	<0.001	NA
MW-23	13-Oct-04	0.0021	<0.001	<0.001	**0.0034**
MW-24	12-Oct-04	**0.0042**	<0.001	<0.001	<0.001
MW-26R	13-Oct-04	<0.001	0.014	**0.009**	<0.001
MW-26R (DU-04402)	13-Oct-04	<0.001	0.014	**0.0084**	<0.001
MW-27	12-Oct-04	<0.001	<0.001	<0.001	NA
MW-28	14-Oct-04	<0.001	<0.001	<0.001	<0.001
MW-28A	14-Oct-04	**0.01**	0.0033	<0.001	**0.016**
RW-01	12-Oct-04	**1.1**	0.029	<0.001	**0.018**
RW-04	12-Oct-04	**0.2**	0.0035	<0.001	<0.001
SW-01	12-Oct-04	<0.001	<0.001	<0.001	NA
SW-02	12-Oct-04	<0.001	<0.001	<0.001	NA
SW-03	12-Oct-04	<0.001	<0.001	<0.001	NA
SW-04	12-Oct-04	<0.001	<0.001	<0.001	NA

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

< - Concentration less than the Quantitation Limit.

NA - Not analyzed.

Shaded value indicates exceedeance of NC 2L Standard.

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	NOV-93	APR-94	AUG-94	SEP-94	JUN-95	JAN/FEB-96	JUN-96	JAN-97	JUL-97
MW-1	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-2	0.11	NA	NA	NA	0.058 D	0.088	0.037	0.052	0.035
MW-4	1.5	NA	NA	NA	0.95 D	0.74	0.71	0.64	0.45 D
MW-5	6.4	NA	NA	NA	5.8 D	5.2	5.6	7.3	7.1 D
MW-6	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-7	0.014	NA	NA	NA	ND	ND	0.0011	0.0064	0.015
MW-8	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-9	3.0	NA	NA	NA	1.8 D	2.7	1.9	2.2	1.9
MW-10	0.22	NA	NA	NA	0.042 E	ND	0.038(0.034)*	0.025	0.029
MW-11	ND	NA	NA	NA	0.0016	ND	0.0044	0.0022	0.0028
MW-12	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-13	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-14	0.52	NA	NA	NA	0.080 D	0.08	0.2	0.065	0.038
MW-15	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-15A	ND	NA	NA	NA	0.0026	ND	0.0022	ND	0.0089
MW-16	ND	NA	NA	NA	0.0012	ND	ND	ND	ND(ND)*
MW-16A	ND	NA	NA	NA	ND	ND	ND	ND(ND)*	ND
MW-17	0.0075(0.0076)*	NA	NA	NA	0.0039	ND	ND(ND)*	0.0006 Q	ND
MW-18		0.0033	0.0017	NA	ND	0.001	ND	0.0014/0.0013	0.0011
MW-19		0.0037	0.18	0.04	0.11 D	0.028	0.061	0.56	0.071
MW-20		ND	NA	NA	ND	ND	ND	ND	0.0032
MW-21		0.49	0.49	NA	0.35 D	0.32	0.42	0.29	0.35
MW-22		ND	NA	NA	ND	ND	ND	ND	ND
MW-23			3.5	5.7	11.0 D	14.0	13.0	12.0	8.7 D(8.3 D)*
MW-24			2.2	0.2	0.22 D	0.23	0.21	0.22	0.19 D
MW-26R								0.0005 Q	0.0013
MW-27			ND	NA	ND	ND	ND	ND	ND
MW-28					ND	ND	ND	ND	0.0015
MW-28A					0.054 D	0.14	0.076	0.072	0.083
RW-1					9.9/0.91**	0.26	0.77		1.0
RW-3									0.94
RW-4									0.4

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	JAN-98	JUL-98	OCT-98	JAN-99	APR-99	JUL-99	OCT-99	JAN-00	APR-00
MW-1	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-2	0.038	0.016	0.031	0.047	0.037	0.031	0.042	0.051	0.042
MW-4	0.52	0.27	0.39 D	0.56	0.45	0.3	0.36	0.38	0.29 (0.23)*
MW-5	7.2	8.0	8.4 D	9.2 (9.40)*	13.0 D	12.0 D	14 D	16	15 D
MW-6	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-7	0.017	NA	0.014	NA	0.022	NA	0.026 (0.024)	NA	0.0037
MW-8	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-9	1.4	0.82	0.53	0.49	0.88	0.73	0.58 D	0.36	0.65
MW-10	0.031	NA	0.025	NA	0.012	NA	0.018	NA	0.0042
MW-11	0.0018	NA	0.0023	NA	0.0031	NA	0.0035	NA	0.0033
MW-12	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-13	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14	0.035	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-15	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-15A	0.0019	NA	ND (ND)*	NA	0.00085 J	NA	0.00054 J	NA	ND
MW-16	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-16A	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-17	ND	NA	ND	NA	ND	NA	0.00083 J	NA	ND
MW-18	ND	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-19	0.019	0.024	0.039	0.046	0.028	0.04	0.076	0.084 (0.076)*	0.0075
MW-20	0.0034	NA	0.014 (0.014)*	NA	0.015	NA	0.0094 (0.0086)	NA	0.02 (0.017)*
MW-21	0.31	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-22	ND	NA	ND	NA	DRY	NA	DRY	NA	NA
MW-23	10.0	1.6	0.33	0.2	0.1	0.086(0.087)*	0.084	0.046	0.051
MW-24	0.22	0.099	0.066	0.047	0.051	0.044(0.045)*	0.025	0.028	0.028
MW-26R	0.003	0.0017	ND	0.00076 J	0.0015	0.0013	0.00083 J	0.00062 J	0.0011
MW-27	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28A	0.067	0.036	0.031	0.03	0.023	0.023	0.017	0.016	0.013
RW-1		1.9 D	1.7	1.1	0.6	0.7	0.49 D	0.74	0.69
RW-3		0.63	0.84 D	0.7	0.59	0.71	0.6 D	0.71	0.62
RW-4		0.2	0.17	0.13	0.13	0.14	0.089	0.12 (0.12)*	0.17

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE									
	JUL-00	OCT-00	APR-01	OCT-01	APR-02	OCT-02	APR-03	OCT-03	MAR-04	OCT-04
MW-1	NA	ND	ND	ND	ND	ND	DRY	ND	ND	ND
MW-2	0.029	0.035	NA	0.024	0.031	0.026 k	0.014	0.012	0.0028	0.0031
MW-4	0.26	0.45	0.32	0.46	0.33	0.41 k (0.42k)	0.34	0.28	0.38	0.28
MW-5	16	17 D	13	16	11 D	14 k	12	6.6	7	5.9
MW-6	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	NA	0.0027	0.0009J	ND	ND	ND	ND	ND	ND	0.0022
MW-8	NA	ND	0.0011	0.0011	0.0014	0.0013	0.00096J	ND	ND	ND
MW-9	0.83	1	0.34	0.65	0.41	0.96 k	0.39	0.31	0.38	0.19
MW-10	NA	0.016	0.0038	0.0041	0.0011	0.002	0.001	0.0029	0.00079 J	ND
MW-11	NA	0.003	0.0023	0.0036	0.0029	0.0031	0.004	0.0027	0.0025	0.0017
MW-12	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	0.00053 J	ND	ND	ND	0.074	ND	ND
MW-14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15A	NA	ND	0.0015	ND	ND	ND	ND	ND	ND	0.0011
MW-16	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16A	NA	ND	ND	0.00052 J	ND	ND (0.00072Jj)	0.0006J	0.00039 J	ND	ND
MW-17	NA	0.0011	0.00057J (0.00054J)	0.0033	0.0044	0.01	ND	ND	ND	ND
MW-18	NA	NA	NA	NA	NA	NA	0.0055	0.0078	0.0067	NA
MW-19	0.036	0.092	0.016	0.11	0.064	0.18 k	0.0038	0.044	0.02	0.0085
MW-20	NA	0.018	0.011	0.012	0.012	0.0091	0.012	0.007	0.0063	0.008
MW-21	NA	NA	NA	NA	NA	NA	0.012	0.0014	0.0085	NA
MW-22	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
MW-23	0.014	0.017	0.041	0.0099	0.027	0.028 k	0.0082	0.004	0.0022	0.0021
MW-24	0.017	0.013 (0.014)	0.012	0.0066	0.0047	0.0062	0.014	0.011	0.0078	0.0042
MW-26R	ND	ND	0.0025	0.0096	ND	0.00076 J	0.00061J	0.00041 J	0.0014	ND
MW-27	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-28	NA	ND	ND	ND	ND (ND)	ND	ND	0.00024 J	ND	ND
MW-28A	0.013	0.01	0.0085	0.0059	0.0058	0.0065	0.0055	ND	0.0079	0.01
RW-1	0.13	1.3	0.6	0.54	0.16	0.51 k	0.2	1.1 D	0.44	1.1
RW-3	0.56	0.61	0.57	0.63	NA	NA	NA	NA	NA	NA
RW-4	0.39 D (0.39 D)	0.13	0.19 (0.16)	0.077	0.034 (0.034)	0.066 Nk	0.05	0.18	0.2	0.2

Table 3
Historical Trichloroethene Concentrations Detected in Groundwater Qualifiers

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

D - Analyte value from diluted analysis.

E - Analyte concentration exceeds calibration range.

J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.

j - Concentration considered an estimate based on data validation.

k - Analyte present; reported value may be biased high.

Q - The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ).
The results are qualified due to the uncertainty of analyte concentrations within this range.

NA - Not analyzed.

ND - Not detected.

* - Analytical results for duplicate samples shown in parentheses.

** - Analytical results for samples collected at the beginning/end of pumping tests.

< - Concentration less than the Quantitation Limit.

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	NOV-93	APR-94	AUG-94	SEP-94	JUN-95	JAN/FEB-96	JUN-96	JAN-97	JUL-97
MW-1	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-2	0.025	NA	NA	NA	0.012	ND	0.0096	ND	0.004
MW-4	0.74	NA	NA	NA	0.67 D	0.36	0.71	ND	0.51 D
MW-5	ND	NA	NA	NA	0.085 E	ND	0.27	ND	0.2
MW-6	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-7	0.038	NA	NA	NA	ND	ND	ND	ND	0.001 J
MW-8	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-9	ND	NA	NA	NA	0.045 E	ND	ND	ND	0.043
MW-10	1.2	NA	NA	NA	0.60 D	0.38	0.45(0.39)*	ND	0.47
MW-11	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-12	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-13	ND	NA	NA	NA	0.003	ND	0.0044	0.022	0.002
MW-14	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-15	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-15A	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-16	ND	NA	NA	NA	ND	ND	ND	ND	ND(ND)*
MW-16A	ND	NA	NA	NA	ND	ND	ND	ND(ND)*	ND
MW-17	ND(ND)*	NA	NA	NA	ND	ND	ND(ND)*	ND	ND
MW-18		0.0086	0.0036	NA	0.0026	ND	ND	0.0011 Q(0.0013 Q)*	0.0012 J
MW-19		ND	ND	0.019	0.0085	ND	0.004	ND	0.0038
MW-20		ND	NA	NA	0.0029	ND	0.26	ND	0.0043
MW-21		0.13	0.14	NA	0.25 D	0.20	ND	ND	0.13
MW-22		ND	NA	NA	ND	ND	0.68	ND	ND
MW-23			ND	ND	0.38	ND	ND	ND	0.28 D(0.27 D)*
MW-24			ND	ND	0.003	ND	ND	ND	0.0024
MW-26R								0.003 Q	0.0063
MW-27			ND	NA	ND	ND	ND	ND	
MW-28					ND	ND	ND	ND	
MW-28A					0.0073	0.018	0.033	0.011	0.011
RW-1					0.56/0.24**	0.08	0.2	NA	0.013
RW-3									ND
RW-4									0.0085 J

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	JAN-98	JUL-98	OCT-98	JAN-99	APR-99	JUL-99	OCT-99	JAN-00	APR-00
MW-1	ND	NA	<0.002	NA	ND	NA	ND	NA	ND
MW-2	0.0035	0.0022	0.0024	0.003	0.0024	0.002	0.003	0.003	0.0029
MW-4	0.52	0.38	0.39 D	0.76	0.55	0.33	0.41	0.38	0.26 (0.26)*
MW-5	0.15	0.13	0.12	0.15	0.19	0.19 D	0.22	0.26	0.23
MW-6	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-7	ND	NA	0.00086 J	NA	ND	NA	0.0013 J (0.0013 J)*	NA	ND
MW-8	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-9	0.03	0.019	0.012	0.011	ND	0.015	0.016	0.0082	0.012
MW-10	0.47	NA	0.4	NA	0.2	NA	0.3	NA	0.065
MW-11	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-12	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-13	ND	0.0014 J	0.00093 J	ND	DRY	ND	DRY	ND	ND
MW-14	ND	NA	DRY	NA	ND	NA	NA	NA	ND
MW-15	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-15A	ND	NA	ND (ND)*	NA	ND	NA	ND	NA	ND
MW-16	ND	NA	ND	0.002	ND	NA	ND	NA	ND
MW-16A	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-17	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-18	ND	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-19	ND	0.0012 J	0.0015 J	NA	ND	ND	0.0035	0.0037 (0.0031)*	ND
MW-20	0.0054	NA	0.0071 (0.0075)*	NA	0.007	NA	0.0056 (0.0056)*	NA	0.0077 (0.0066)*
MW-21	0.13	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-22	ND	NA	ND	NA	DRY	NA	DRY	NA	NA
MW-23	0.34	0.11	0.025	0.016	0.017	0.011(0.011)*	0.012	0.0069	0.0078
MW-24	ND	0.0013 J	0.0081J	0.00056 J	ND	ND(ND)*	ND	ND	ND
MW-26R	0.0081	0.016	0.018	0.028	0.067	0.076	0.064	0.058	0.077
MW-27	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28A	0.0086	0.0052	0.0067	0.0068	0.0045	0.0039	0.0033	0.0029	0.0023
RW-1		0.05	0.062	0.042	0.024	0.027	0.024	0.024	0.021
RW-3		0.038	0.022	0.045	0.045	0.051	0.061	0.057	0.042
RW-4		0.0053	0.0046	0.0031	0.0036	0.0034	0.0025	0.0032 (0.0033)*	0.0041

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	OCT-00	APR-01	OCT-01	APR-02	OCT-02	APR-03	OCT-03	MAR-04	OCT-04
MW-1	ND	ND	ND	ND	ND	DRY	ND	ND	ND
MW-2	0.0022	NA	0.0011 J	0.0017 J	0.0014 J	ND	0.0051	ND	ND
MW-4	0.59	0.63	0.71	0.44	0.63 (0.61)	0.33	0.28	0.18	0.2
MW-5	0.3	0.3	0.29	0.34	0.46	0.44	0.36	0.36	0.34
MW-6	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	0.022	0.0079	0.014	0.012	0.024	0.011	0.014	0.016	0.0097
MW-10	0.22	0.094	0.085	0.021	0.029	0.0095	ND	0.011	0.0085
MW-11	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	ND	ND	ND	0.0032	ND	ND
MW-14	NA	NA	NA	NA	NA	NA	NA	NA	ND
MW-15	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-15A	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-16A	ND	ND	ND	ND	ND (ND)	ND	ND	ND	ND
MW-17	ND	ND (ND)	ND	0.00084 J	0.0021	ND	ND	ND	ND
MW-18	ND	NA	NA	NA	NA	ND	0.0027	ND	NA
MW-19	0.0036	0.00058J	0.0035	0.0023	0.006	ND	0.0018 J	ND	ND
MW-20	0.0066	0.0053	ND	0.0055	0.0046	0.0049	0.0037	0.0036	0.0041
MW-21	NA	NA	NA	NA	NA	0.0059	0.017	0.0026	NA
MW-22	NA	NA	NA	NA	NA	NA	ND	ND	ND
MW-23	0.002	0.005	0.0016 J	0.0036	0.0029	ND	ND	ND	ND
MW-24	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-26R	0.045	0.064	0.16	0.17	0.13	0.075	0.033	0.033	0.014
MW-27	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-28	ND	ND	ND	ND (ND)	ND	ND	ND	ND	ND
MW-28A	0.0019 J	0.0016J	0.0012 J	ND	0.0016 J	0.0015J	ND	0.0026	0.0033
RW-1	0.034	0.018	0.014	0.015	0.016	0.01	0.027	0.011	0.029
RW-3	0.047	0.05	0.047	NA	NA	NA	NA	NA	NA
RW-4	0.0031	0.0048 (0.0044)	0.0015 J	ND (ND)	0.0012 J	0.0022	0.004	0.0037	0.0035

Table 4
Historical 1,2-Dichloroethene Concentrations Detected in Groundwater Qualifiers

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

D - Analyte value from diluted analysis.

E - Analyte concentration exceeds calibration range.

J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.

Q - The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ).
The results are qualified due to the uncertainty of analyte concentrations within this range.

NA - Not analyzed.

ND - Not detected.

* - Analytical results for duplicate samples shown in parentheses.

** - Analytical results for samples collected at the beginning/end of pumping tests.

< - Concentration less than the Quantitation Limit.

Section 4
Recovery System Performance

The groundwater recovery system is designed to use three recovery wells to capture affected groundwater. Water from these wells is pumped to an air stripper, where VOCs are removed, and treated water is discharged into Gashes Creek per National Pollutant Discharge Elimination System (NPDES) Permit No. NC0086088. During the April 2002 sampling event it was discovered that the pump in well RW-3 was not operating. Attempts to restart the pump were unsuccessful. Well RW-3 has a yield of about ½ gallon per minute (gpm). Such a low flow in combination with the amount of vertical head between the pump and the land surface results in stress on the pump and its electrical system. This, in turn, results in increased maintenance. The remaining two wells (RW-1 and RW-4) recover approximately 15 and 7 gpm, respectively, and account for nearly all the yield from the groundwater recovery system. Since recovery well RW-3 contributes very little to the overall yield of the groundwater recovery system, it has remained offline since April 2002 and groundwater recovery continues to include only wells RW-1 and RW-4.

The groundwater recovery system is now operating on a pulse pumping cycle of "on" for 6 weeks, followed by "off " for 6 weeks. This pulsed pumping cycle operational mode was initiated on November 11, 2002. The dates that the system was turned on and off during the past six months are summarized as follows:

Summary of Pulsed Pumping Cycles

RECOVERY SYSTEM SHUT DOWN	RECOVERY SYSTEM START UP
November 11, 2002	January 3, 2003(1)
February 14, 2003(1)	April 2, 2003
May 13, 2003	July 1, 2003(1)
August 12, 2003(1)	October 7, 2003(1)
November 13, 2003	January 5, 2004
February 17, 2004	April 1, 2004(1)
May 18, 2004	July 6, 2004
August 16, 2004	October 5, 2004

Influent and effluent to the stripper is sampled on a monthly basis during "on" pumping cycles. Effluent flow is recorded continuously. The analytical results for the influent and effluent are used along with the flow data to estimate the amount of trichloroethene removed each month.

Monthly volumes of treated groundwater and the estimated amount of TCE removed since system startup in March 1998 through October 2004 are summarized in Table 5. The estimated amount of groundwater that was recovered and treated during May 2004 through October 2004 is 3.48 million gallons. It is estimated that over 29 pounds of TCE were removed during May 2004 through October 2004. As shown on Table 5, the amount of water treated and TCE removed varied from month to month during this time period. This variance is due to the number of days that the system was in operation each month.

Table 6 summarizes the amount of water treated and the estimated amount of TCE removed each year since operation of the recovery system began in March 1998. For the years 1998 through 2002, the estimated amount of TCE removed declined from 167.7 pounds per year to 31.47 pounds per year. After pulse pumping of the system began in November 2002, the estimated amount of TCE increased to 38.3 pounds per year in 2003 and even further to 48.9 pounds per year in 2004 (through October 2004). While pulse pumping of the groundwater recovery system increased the amount of TCE removed, the volume of water removed during both years is significantly less than removed during years of full operation.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending October 31, 2004

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
02/98	0	0	0	Not operational
03/98	28	1.58	N/C	Startup 03/04/98
04/98	30	1.62	39.1	Normal operation
05/98	31	1.64	35.6	Normal operation
06/98	30	1.58	17.1	Normal operation
07/98	31	1.53	17.9	Normal operation. Adjusted pump rate for RW-4
08/98	31	1.42	14.2	RMT coordinating maintenance of pump controllers
09/98	30	1.47	13.5	Normal operation, pump controllers repaired/calibrated
10/98	31	1.40	11.7	Removed pump from RW-3. Pump will be cleaned and repaired, as needed.
11/98	30	1.30	11.9	RW-3 pump replaced
12/98	31	1.28	6.7	Normal operation
01/99	31	1.31	7.5	Auto dialer was reprogrammed. System inspected.
02/99	28	1.33	7.42	Normal operation
03/99	31	1.33	3.27	Normal operation. Calibrated flow meter and updated flow meter software.
04/99	30	1.35	1.90	Normal operation. System inspected during groundwater sampling.
05/99	31	1.46	10.7	Normal operation
06/99	30	1.39	7.06	Normal operation
07/99	31	1.46	7.05	Normal operation
08/99	31	1.42	7.1	Normal operation
09/99	30	1.33	6.6	Normal operation
10/99	31	1.35	4.5	Normal operation. System inspected during groundwater sampling.
11/99	30	1.31	6.1	Normal operation
12/99	31	1.29	6.0	Normal operation

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending October 31, 2004

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
01/00	31	1.19	5.2	Normal operation
02/00	29	1.17	5.8	Normal operation
03/00	31	1.25	6.6	Normal operation
04/00	30	1.08	6.3	Normal operation
05/00	31	0.661	1.05	Flow from RW-4 has declined. Field technician will adjust flow
06/00	30	0.693	1.9	Maintenance issues identified during site visit. Flow remains lower than normal
07/00	31	0.624 (2)	3.02	Pumps functional at a reduced rate. Meters are marginally functional.
08/00	31	0.725	4.6	Replacement equipment purchased, operation and maintenance (O&M) trip scheduled.
09/00	30	1.274	11.7	Repairs made on September 6 and 7. Flow restored to approximately 45,000 gpd.
10/00	31	1.27 (2)	12.7	Normal operation
11/00	30	1.10	17.4	Effluent flow meter calibrated, normal operation
12/00	31	1.03	5.5	Normal operation
1/01	31	1.02	3.9	Normal operation
2/01	28	0.97	2.7	Normal operation
3/01	31	0.85	2.8(2)	Normal operation
4/01	30	1.02	3.2	Flow rates adjusted and yield increased
5/01	31	1.05	5.2	Normal operation
6/01	30	1.11	4.4	Normal operation
7/01	31	1.14	3.8	Normal operation
8/01	31	1.14	3.6	Normal operation
9/01	30	1.06	3.9	Normal operation
10/01	31	1.06(1)	3.9(2)	Normal operation
11/01	30	1.03	3.8	Normal operation
12/01	31	1.08	3.9	Normal operation

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending October 31, 2004

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
01/02	31	1.06	3.0	Normal operation
02/02	28	0.95	2.6	Normal operation
03/02	31	1.07	3.5	Normal operation
04/02	30	1.03(2)	3.5(2)	Well RW-3 not operating
05/02	31	1.09	3.3	The pump in well RW-3 not operating.
06/02	30	1.02	3.3	The pump in well RW-3 not operating.
07/02	31	1.02	3.3	The pump in well RW-3 not operating.
08/02	31	1.1	3.4	The pump in well RW-3 not operating.
09/02	30	1.01	2.4	The pump in well RW-3 not operating.
10/02	31	1.02(2)	2.4(2)	The pump in well RW-3 not operating.
11/02	10	0.33	0.77	10 days of operation this month; system off-line
12/02	0(4)	0	0	System off-line for month of December.
01/03	29	1.12	9.3(2)	System was restarted the first week of January.
02/03	14	0.46	1.9(3)	System shut down February 14, 2003.
03/03	0(4)	0	0	System off-line for month of March.
04/03	30	1.21	1.4	Normal operation
05/03	13	0.50(2)	2(2)	13 days of operation this month; system off-line
06/03	0(4)	0	0	System off-line for month of June.
07/03	31	1.3	11.9	Normal operation
08/03	11	0.41	1.7	11 days of operation this month
09/03	0	0	0	System off-line for month of September.
10/03	26	0.99	7.5	26 days of operation for month of October
11/03	13	0.47	2.6	13 days of operation for month of November
12/03	0	0	0	System off-line for month of December
01/04	27	1.04	7.9	27 days of operation for month of January
02/04	17	0.61	4.6(2)	17 days of operation for month of February
03/04	0	0	0	System off-line for month of March
04/04	30	1.2	7.0	30 days of operation for month of April
05/04	18	0.67	5.1	18 days of operation for month of May
06/04	0	0	0	System off-line for month of June
07/04	26	1.07	8.9	26 days of operation for month of July
08/04	16	0.63	5.2(2)	16 days of operation for month of August
09/04	0	0	0	System off-line for month of September

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending October 31, 2004

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
10/04	27	1.11	10.2	27 days of operation for month of October
	2,043	**78.28**	**487.94**	**Total since system startup**

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 6
Operations Summary by Year

YEAR	WATER TREATED (million gallons)	TCE REMOVED (pounds)
1998	14.82	167.7
1999	16.33	75.2
2000	12.067	81.77
2001	12.53	45.1
2002	10.7	31.47
2003	6.46	38.3
2004 (1)	6.33	48.9

(1) January through October 2004

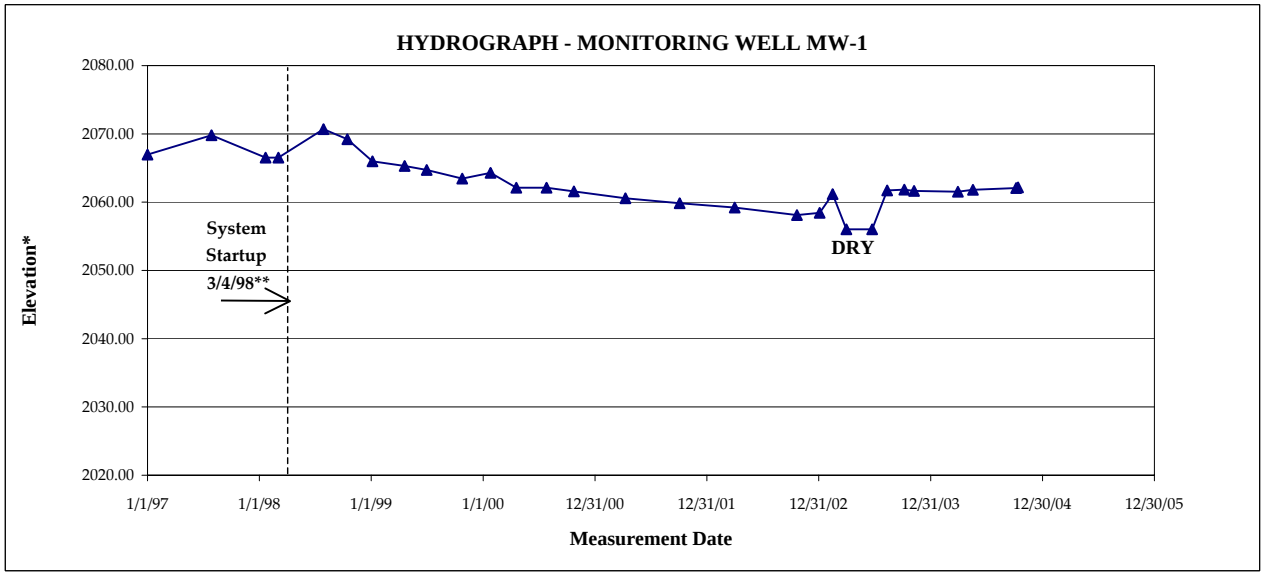
Section 5
Conclusions and Recommendations

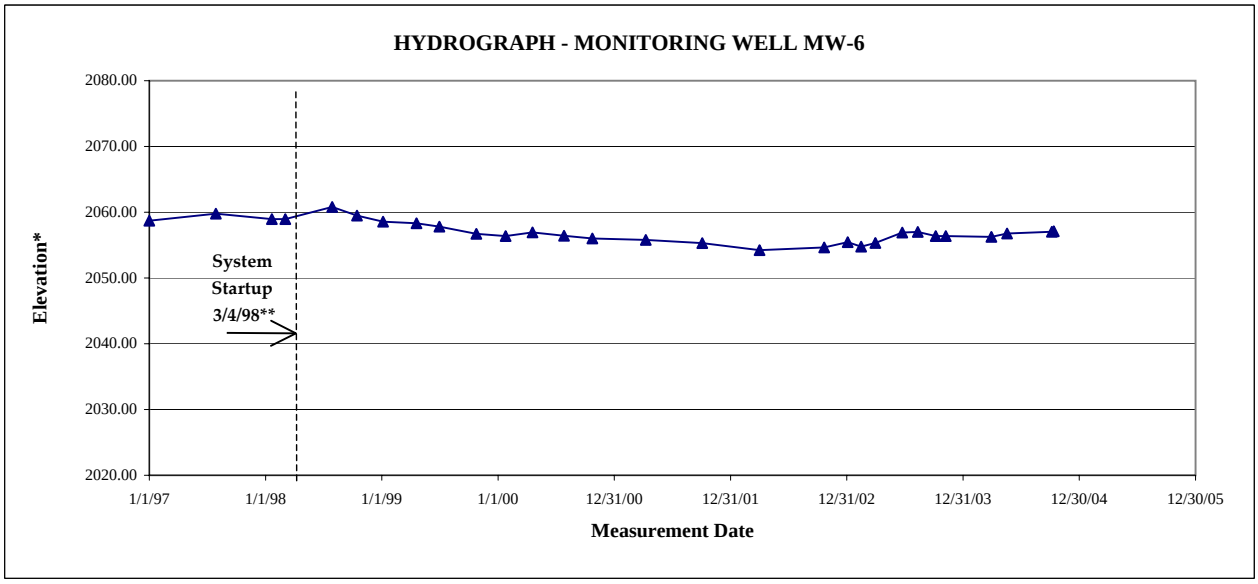
Data gathered during the past semiannual monitoring period indicates that the groundwater recovery system is operating effectively. Pulse pumping of the system appears to have increased the volume of VOCs removed annually while decreasing the volume of groundwater removed. Pulse pumping of the groundwater recovery system continues to save costs associated with operations and maintenance of the system. Recovered groundwater continues to be treated and discharged to Gashes Creek in compliance with the NPDES permit.

Based on these conclusions, RMT offers the following recommendations:

- Continue monitoring groundwater and surface water quality on a semiannual basis.
- Continue operating the groundwater recovery and treatment system on a 6-week on/ 6-week off pulse cycle.

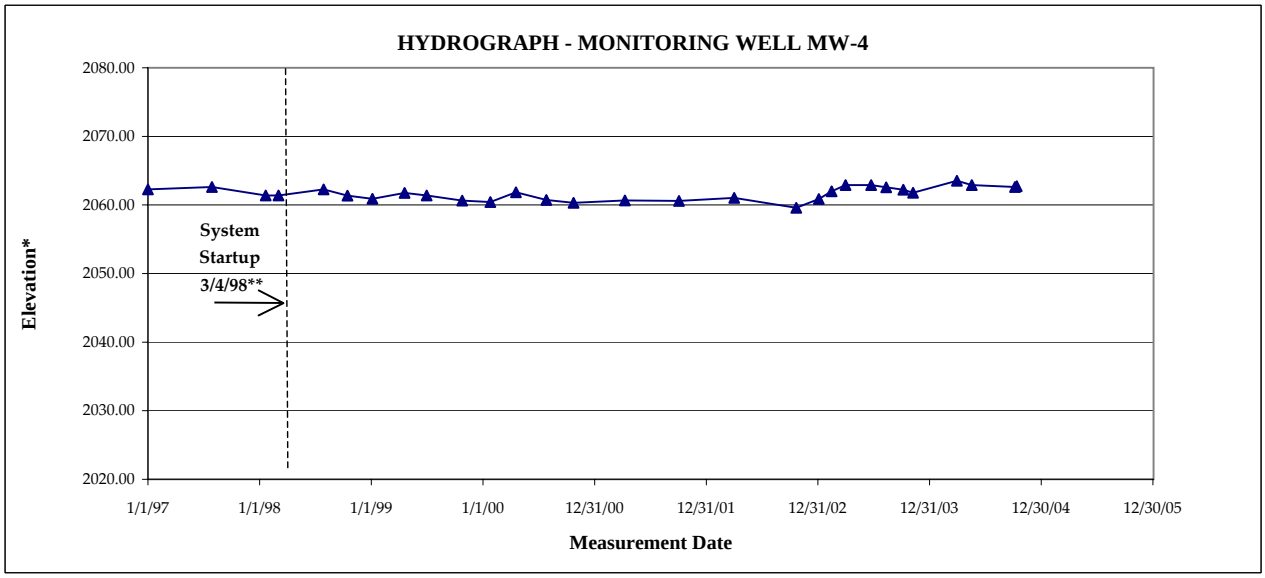
Appendix A
Hydrographs for Bedrock Wells

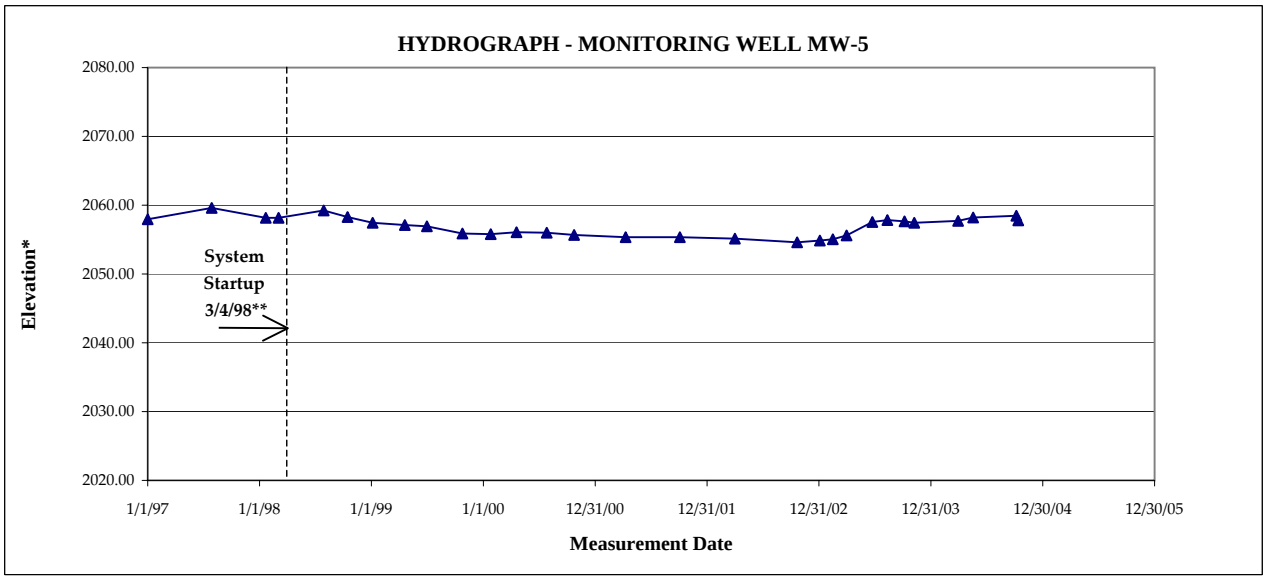




* Elevation in Feet above Mean Sea Level

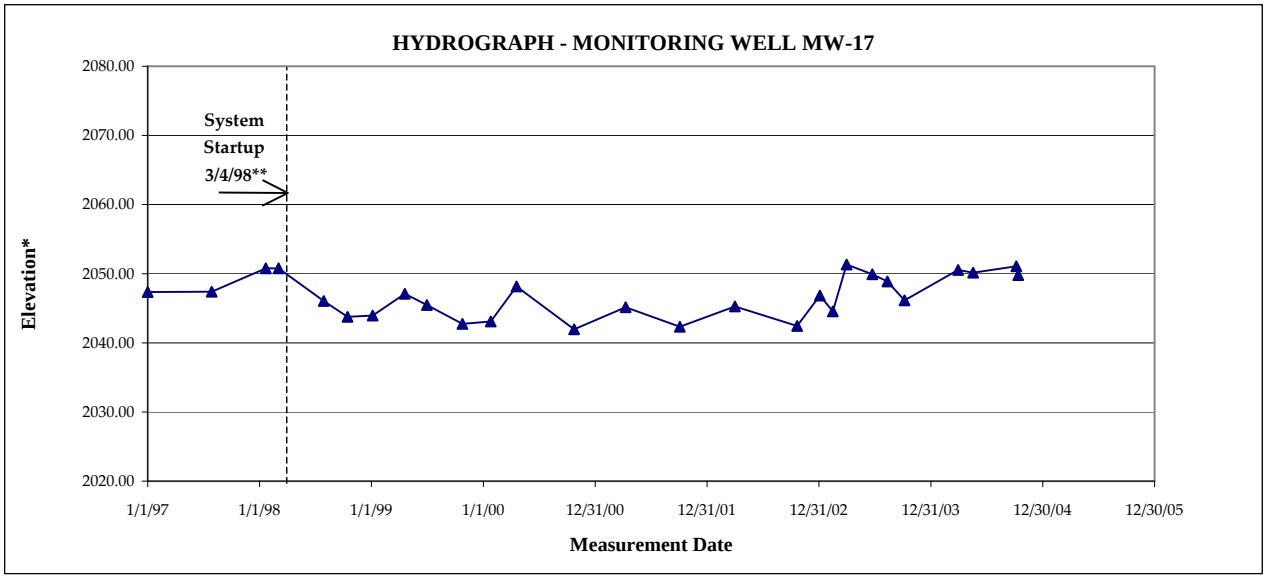
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

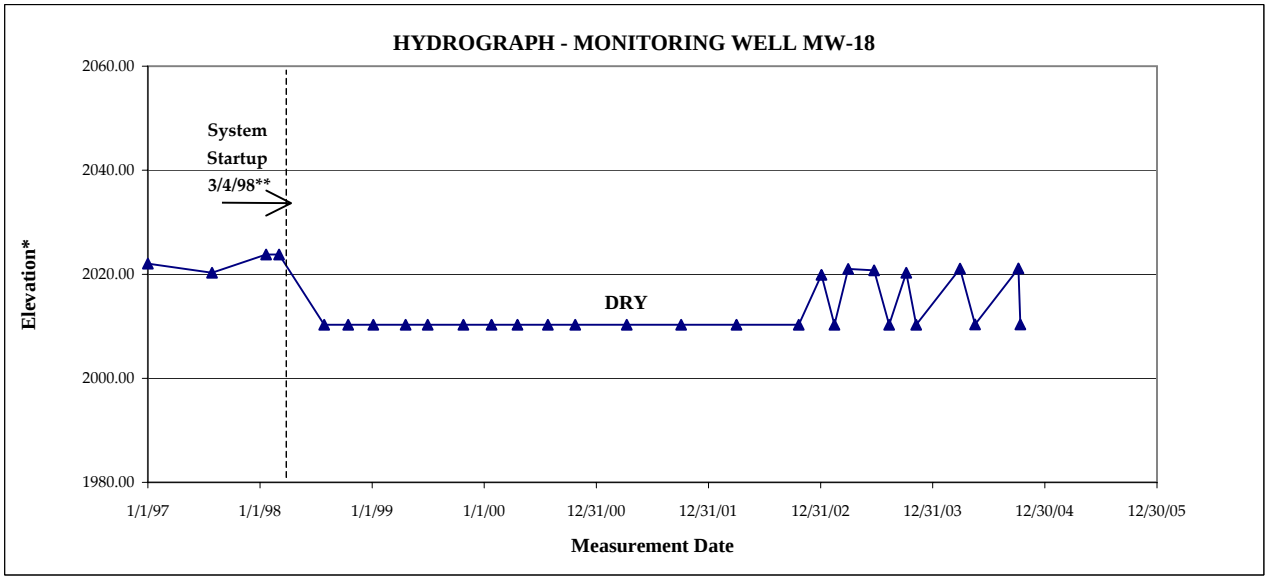




* Elevation in Feet above Mean Sea Level

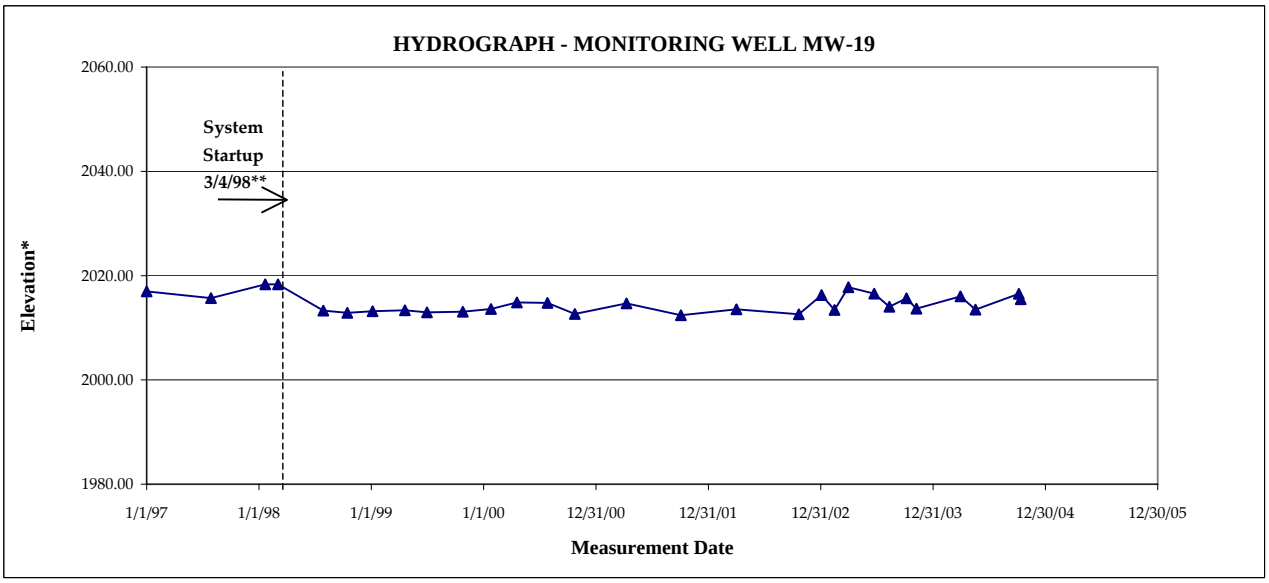
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

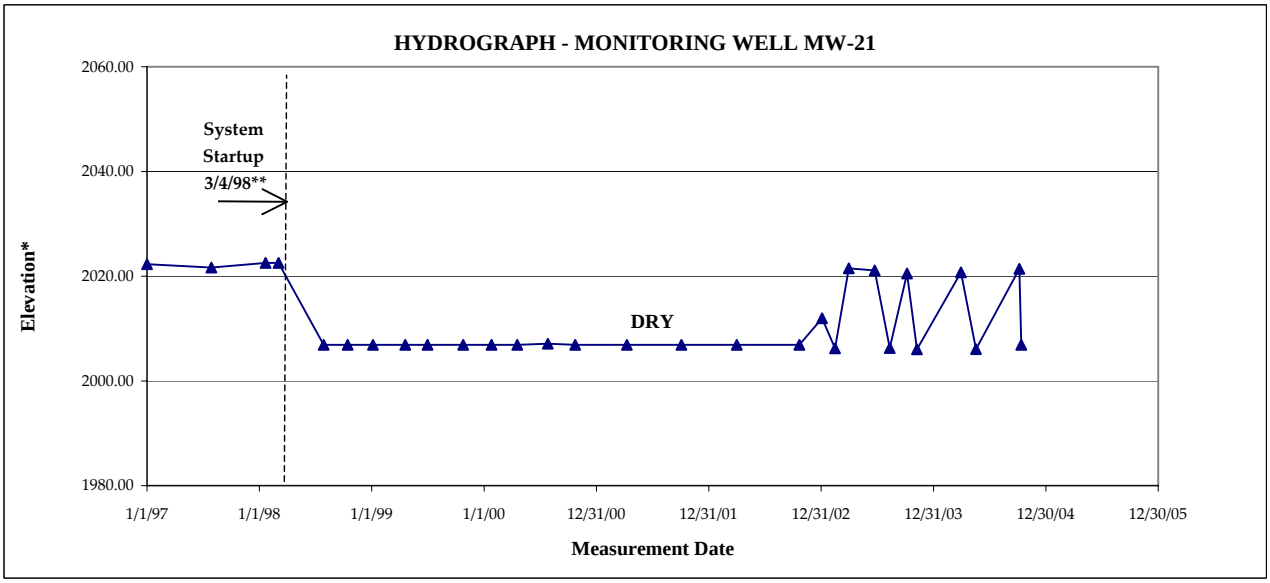




* Elevation in Feet above Mean Sea Level

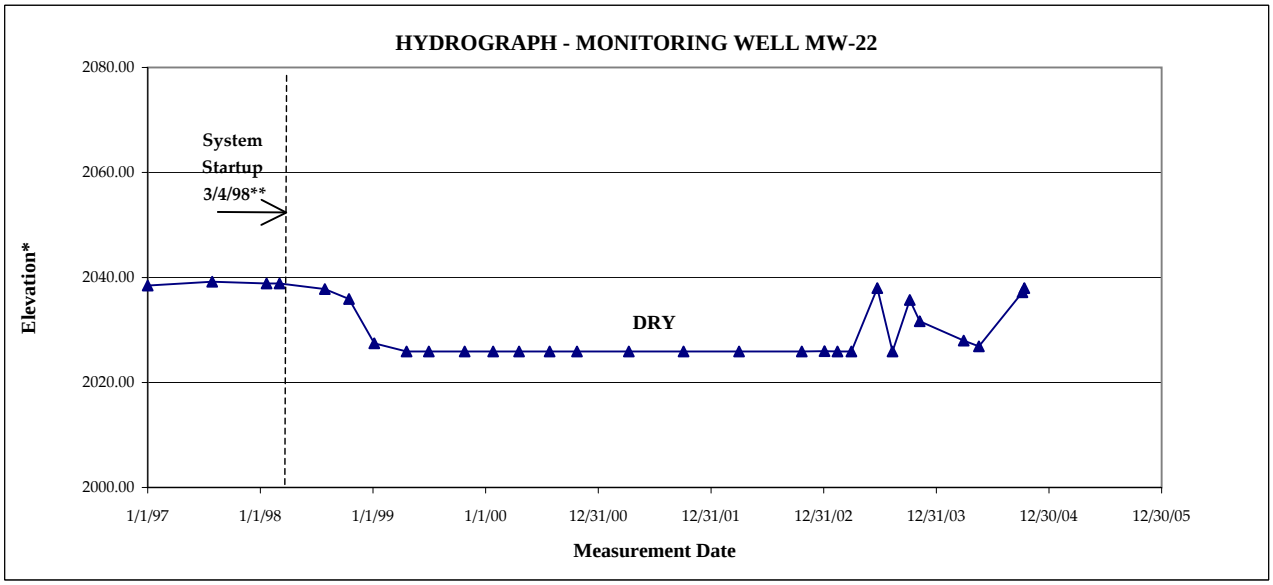
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

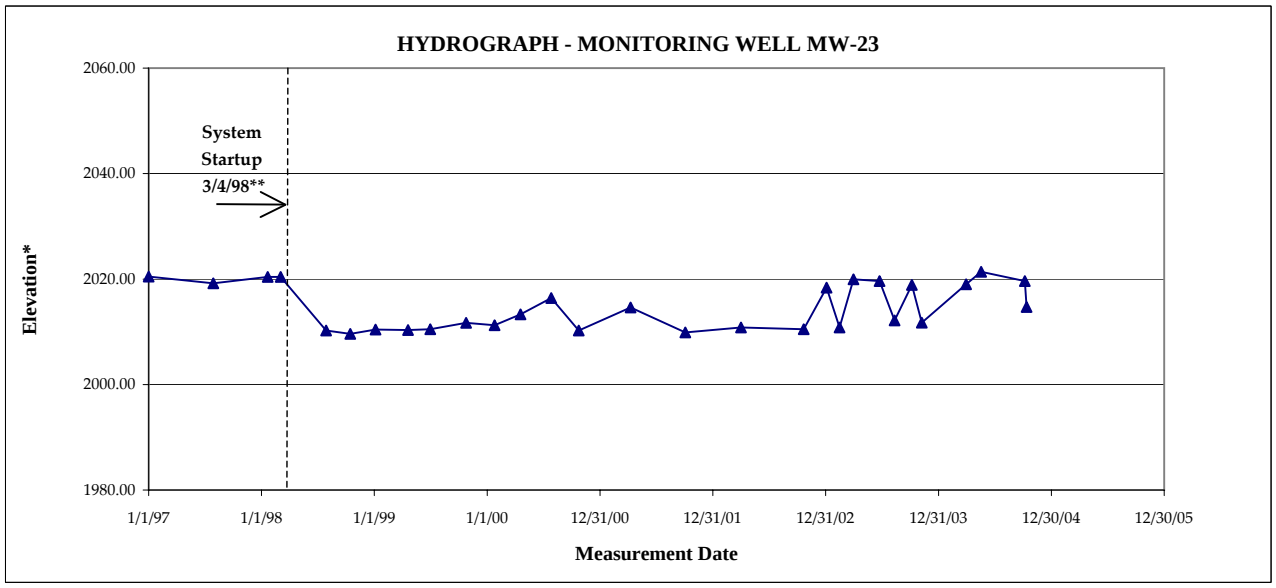




* Elevation in Feet above Mean Sea Level

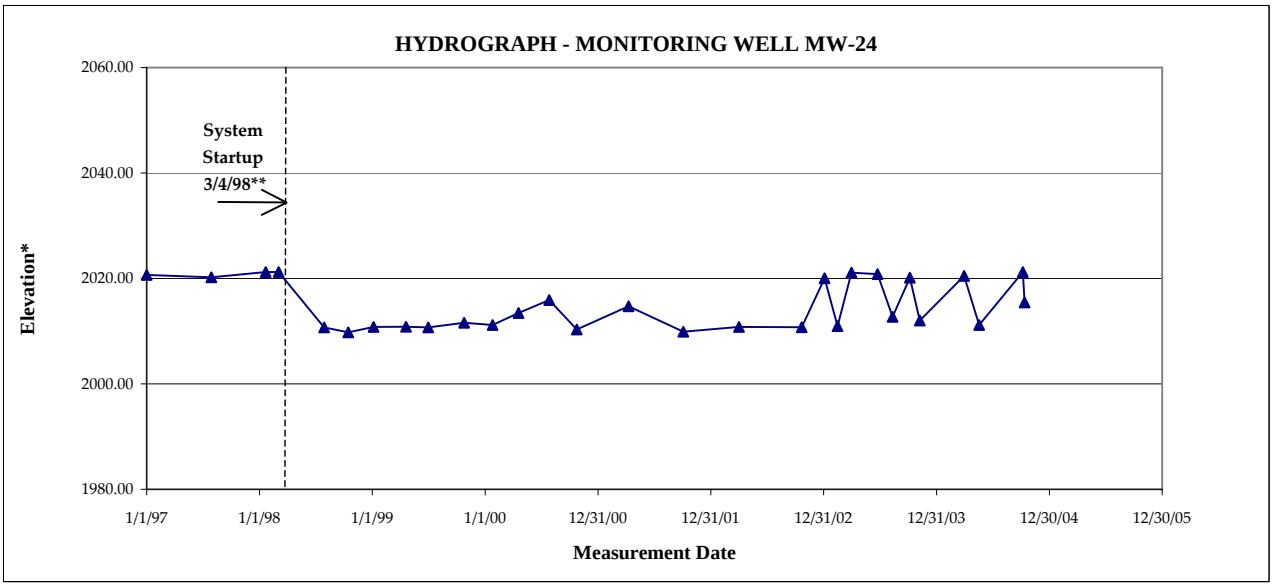
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

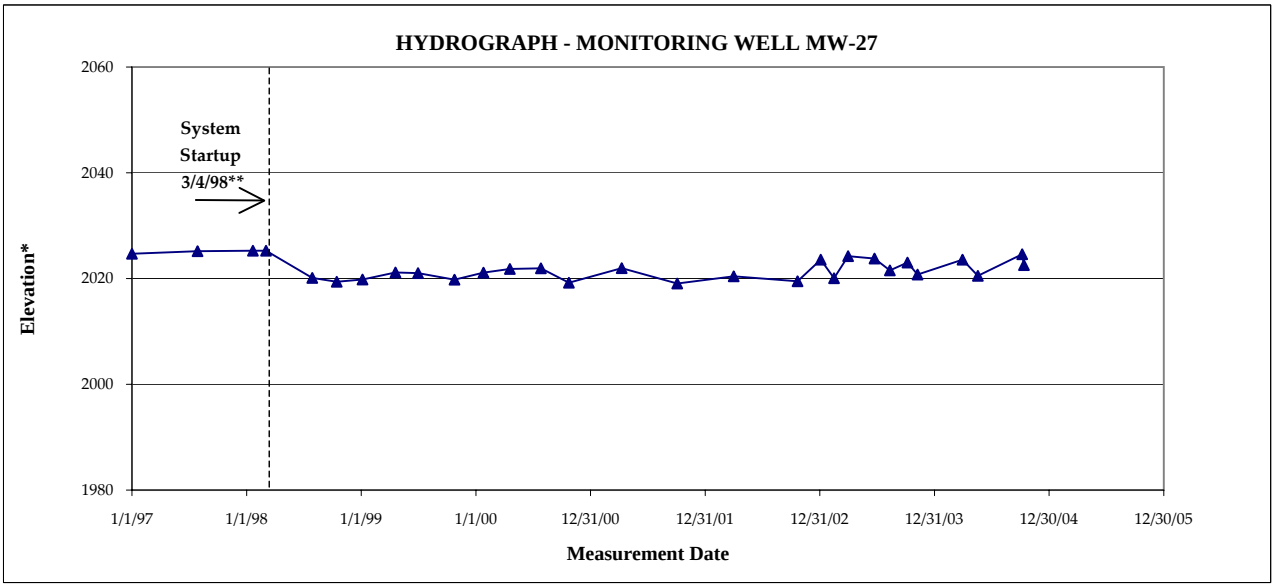




* Elevation in Feet above Mean Sea Level

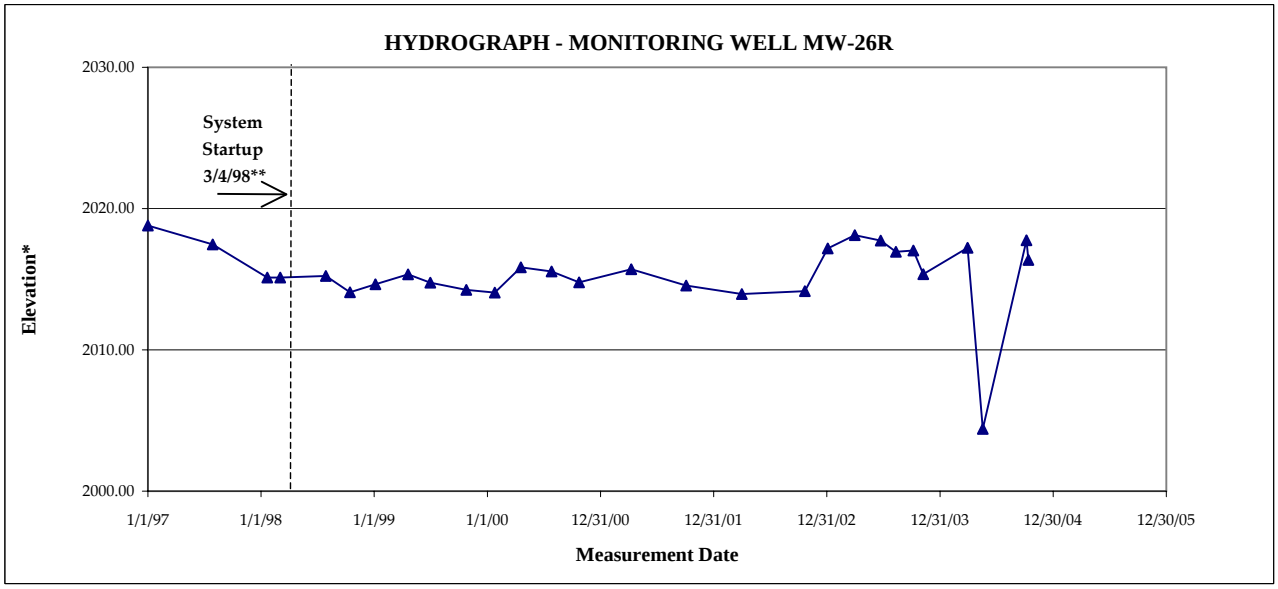
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up





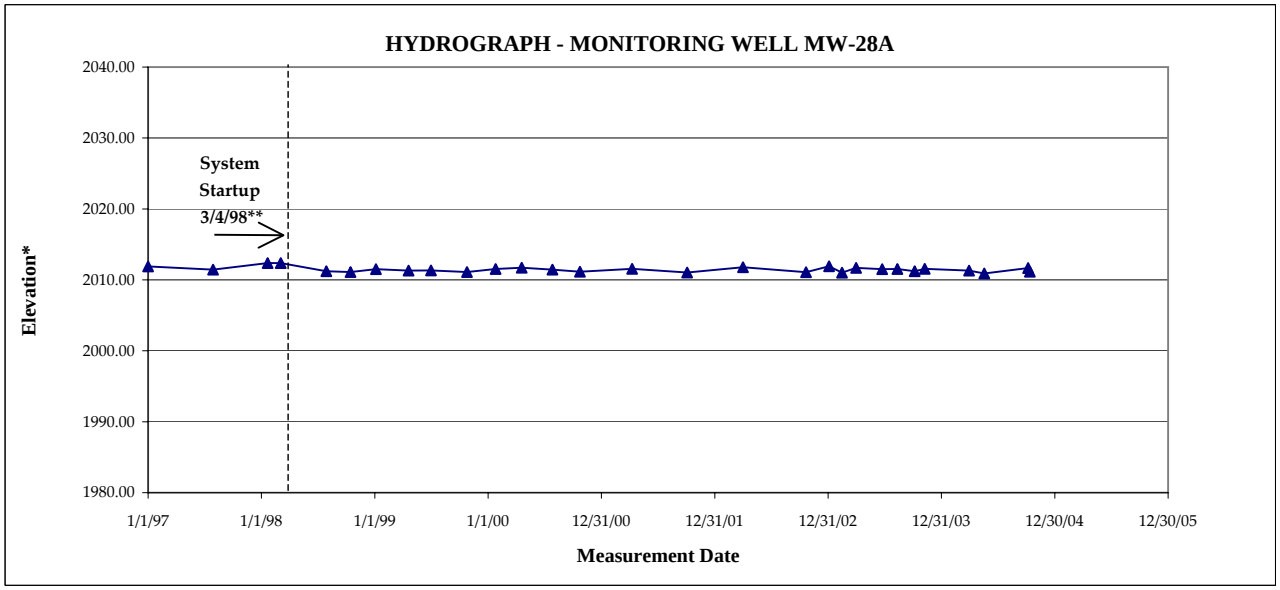
* Elevation in Feet above Mean Sea Level

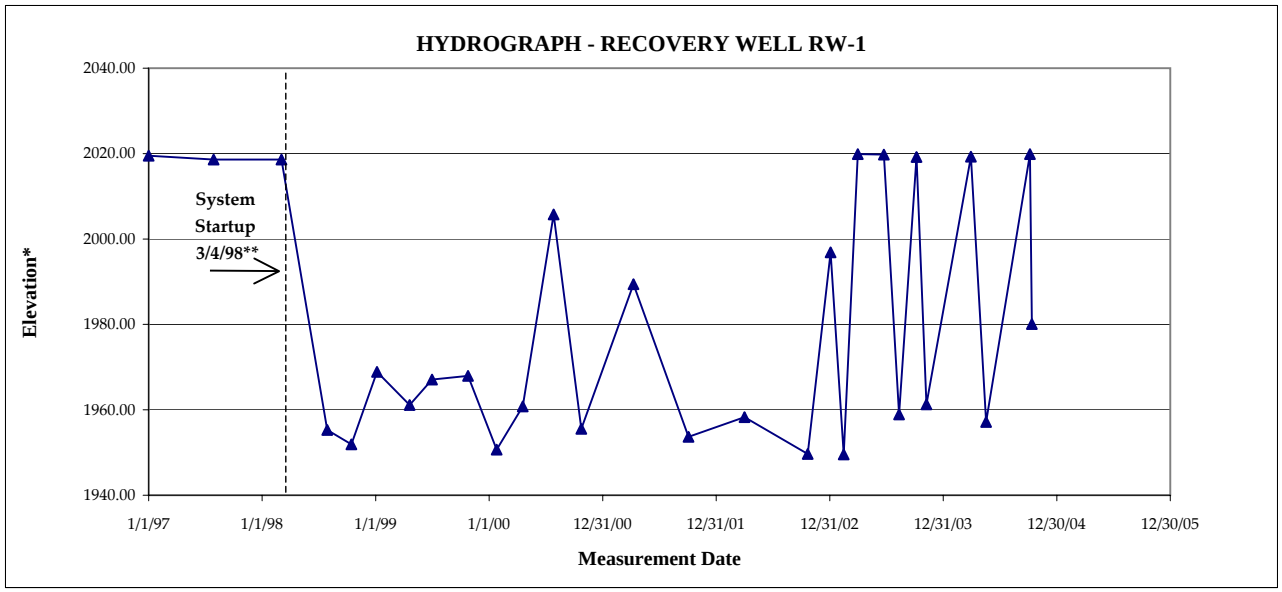
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up



* Elevation in Feet above Mean Sea Level

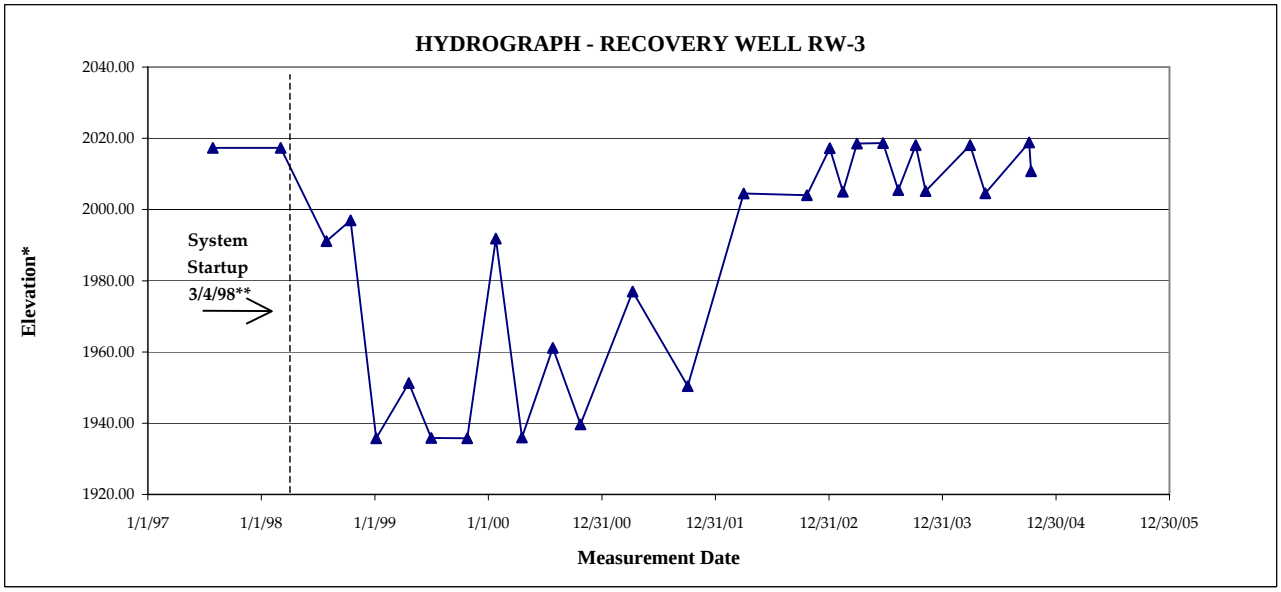
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

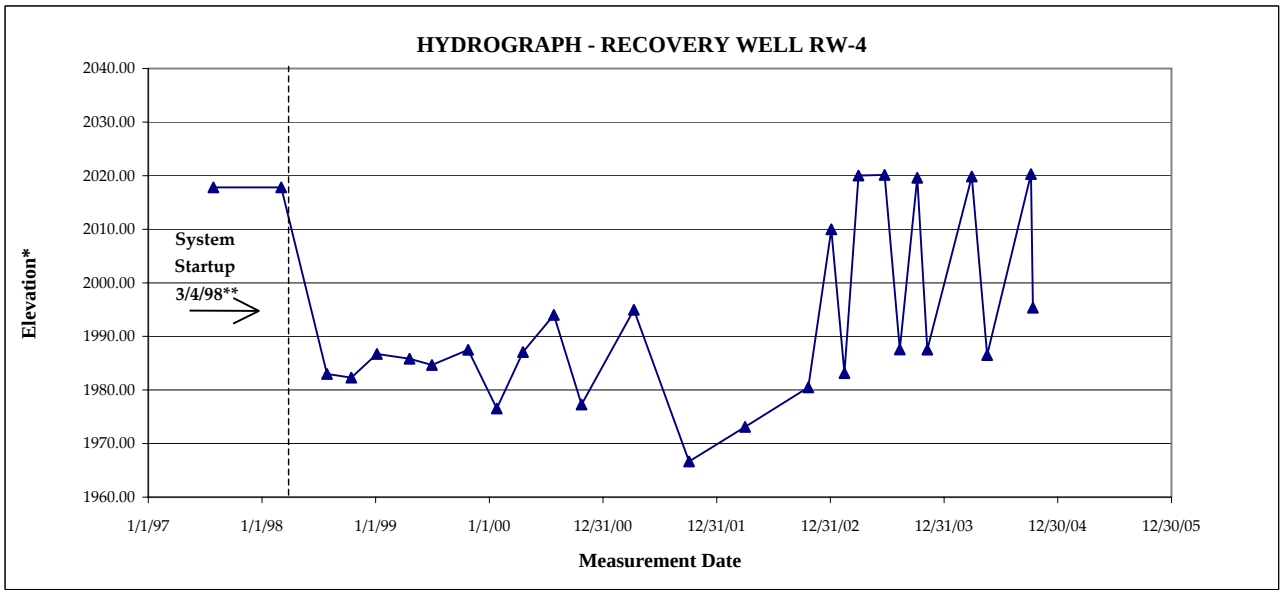




* Elevation in Feet above Mean Sea Level

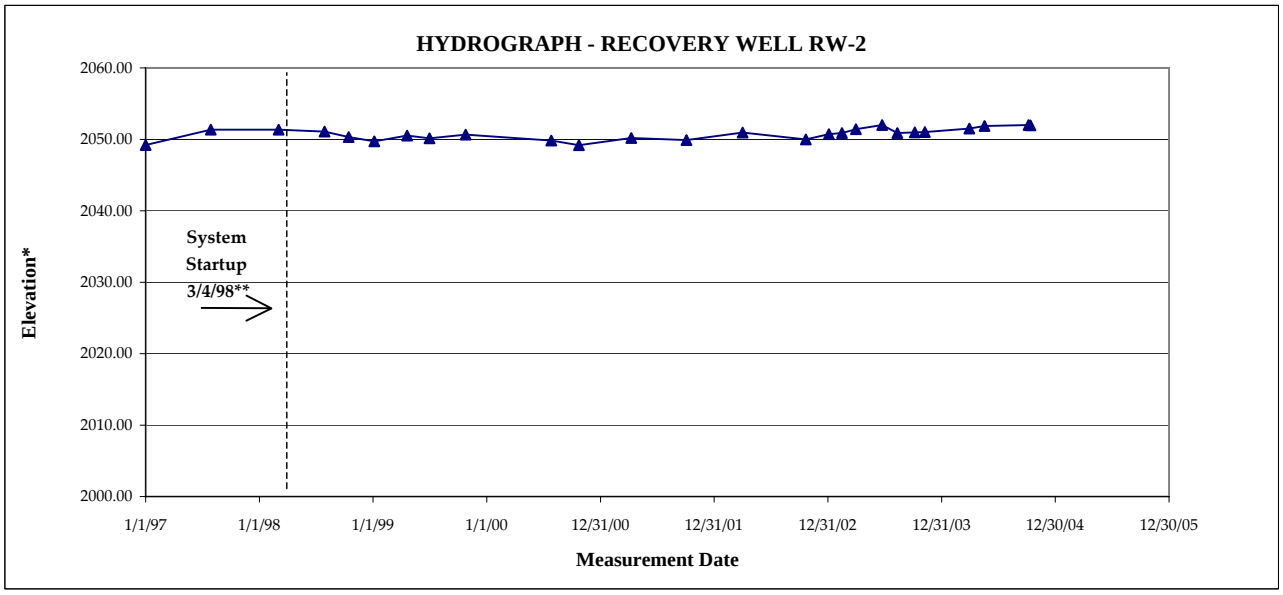
** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

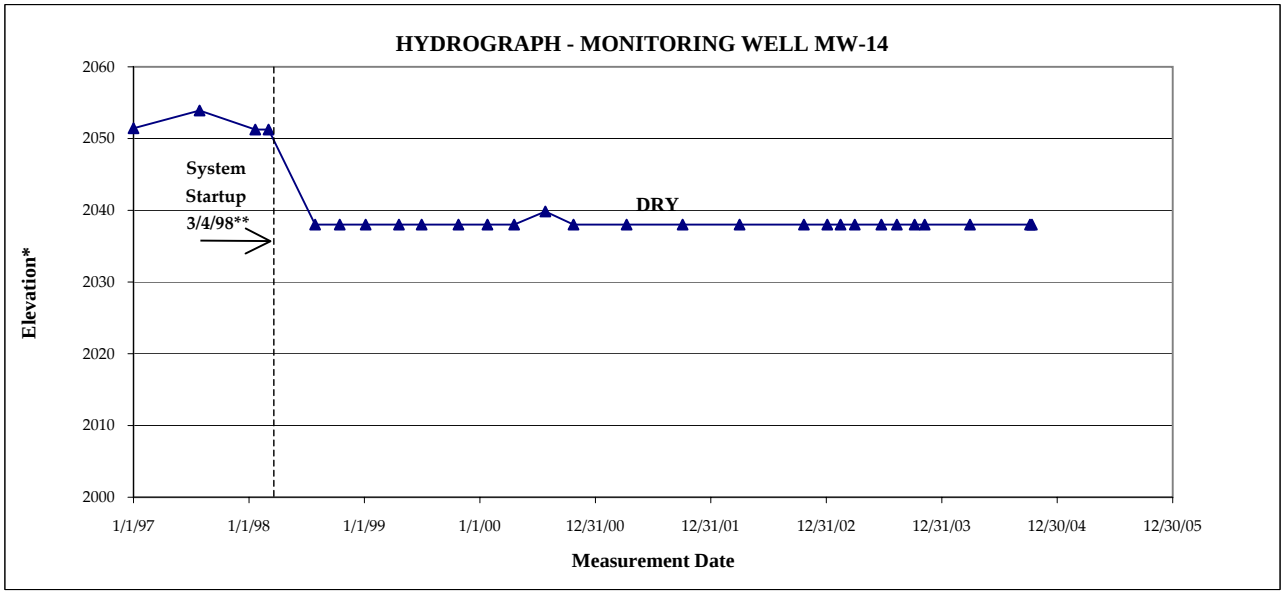




* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up





* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

Appendix B
Laboratory Analytical Reports

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SAMPLE SUMMARY

Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
9279798-001	924879380	SW-1	Water	10/12/04 11:00	10/22/04 09:30
9279798-002	924879398	SW-2	Water	10/12/04 11:30	10/22/04 09:30
9279798-003	924879422	SW-3	Water	10/12/04 12:00	10/22/04 09:30
9279798-004	924879448	SW-4	Water	10/12/04 12:30	10/22/04 09:30
9279798-005	924879463	MW-10	Water	10/12/04 13:50	10/22/04 09:30
9279798-006	924879539	MW-9	Water	10/12/04 14:15	10/22/04 09:30
9279798-007	924879562	MW-8	Water	10/12/04 14:30	10/22/04 09:30
9279798-008	924879570	MW-7	Water	10/12/04 14:15	10/22/04 09:30
9279798-009	924879588	MW-2	Water	10/12/04 15:10	10/22/04 09:30
9279798-010	924879604	MW-6	Water	10/12/04 15:40	10/22/04 09:30
9279798-012	924879661	MW-11	Water	10/12/04 17:00	10/22/04 09:30
9279798-013	924879679	MW-1	Water	10/13/04 09:30	10/22/04 09:30
9279798-014	924879687	MW-22	Water	10/13/04 10:50	10/22/04 09:30
9279798-015	924879737	MW-27	Water	10/12/04 16:15	10/22/04 09:30
9279798-016	924879794	MW-4	Water	10/13/04 12:30	10/22/04 09:30
9279798-017	924879810	MW-5	Water	10/13/04 14:00	10/22/04 09:30
9279798-018	924879869	MW-15	Water	10/14/04 10:00	10/22/04 09:30
9279798-019	924879893	MW-15A	Water	10/14/04 11:15	10/22/04 09:30
9279798-020	924879901	MW-16	Water	10/14/04 10:45	10/22/04 09:30
9279798-021	924879927	MW-16A	Water	10/14/04 11:45	10/22/04 09:30
9279798-022	924879943	MW-20	Water	10/14/04 13:30	10/22/04 09:30
9279798-023	924879950	MW-12	Water	10/14/04 14:00	10/22/04 09:30
9279798-024	924879968	MW-13	Water	10/14/04 14:10	10/22/04 09:30
9279798-025	924879976	MW-17	Water	10/14/04 14:25	10/22/04 09:30
9279798-026	924880024	MW-28	Water	10/14/04 09:25	10/22/04 09:30
9279798-027	924880032	MW-28A	Water	10/14/04 09:40	10/22/04 09:30
9279798-028	924880057	MW-19	Water	10/13/04 14:50	10/22/04 09:30
9279798-029	924880073	MW-26R	Water	10/13/04 15:40	10/22/04 09:30
9279798-030	924880099	MW-23	Water	10/13/04 16:10	10/22/04 09:30
9279798-031	924880131	RBLK-04401	Water	10/13/04 14:00	10/22/04 09:30
9279798-032	924880206	DU-04401	Water	10/13/04	10/22/04 09:30
9279798-033	924880214	DU-04402	Water	10/13/04	10/22/04 09:30
9279798-034	924880248	TBLK-04401	Water	10/13/04	10/22/04 09:30
9279798-035	924880263	RW-1	Water	10/12/04 10:20	10/22/04 09:30
9279798-036	924880289	RW-4	Water	10/12/04 10:00	10/22/04 09:30
9279798-037	924880305	MW-24	Water	10/12/04 09:45	10/22/04 09:30

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SAMPLE ANALYTE COUNT

Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
9279798-001	924879380	SW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-002	924879398	SW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-003	924879422	SW-3	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-004	924879448	SW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-005	924879463	MW-10	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-006	924879539	MW-9	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-007	924879562	MW-8	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-008	924879570	MW-7	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-009	924879588	MW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-010	924879604	MW-6	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-012	924879661	MW-11	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-013	924879679	MW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-014	924879687	MW-22	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-015	924879737	MW-27	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-016	924879794	MW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-017	924879810	MW-5	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-018	924879869	MW-15	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-019	924879893	MW-15A	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-020	924879901	MW-16	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-021	924879927	MW-16A	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-022	924879943	MW-20	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-023	924879950	MW-12	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-024	924879968	MW-13	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-025	924879976	MW-17	8260X WL92	GC/MS VOCs by 8260, low level	9
9279798-026	924880024	MW-28	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-027	924880032	MW-28A	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-028	924880057	MW-19	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-029	924880073	MW-26R	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-030	924880099	MW-23	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-031	924880131	RBLK-04401	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-032	924880206	DU-04401	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-033	924880214	DU-04402	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-034	924880248	TBLK-04401	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-035	924880263	RW-1	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-036	924880289	RW-4	8260X WL92	GC/MS VOCs by 8260, low level	10
9279798-037	924880305	MW-24	8260X WL92	GC/MS VOCs by 8260, low level	10

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879679 | Project Sample Number: 9279798-013 | Date Collected: 10/13/04 09:30
Client Sample ID: MW-1 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 10:10	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 10:10	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 10:10	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 10:10	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 10:10	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/25/04 10:10	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/25/04 10:10	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/25/04 10:10	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/25/04 10:10	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879588
Client Sample ID: MW-2

Project Sample Number: 9279798-009
Matrix: Water

Date Collected: 10/12/04 15:10
Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 08:27	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 08:27	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 08:27	MSF	156-60-5		
Trichloroethene	3.1	ug/l	1.0	10/25/04 08:27	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 08:27	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/25/04 08:27	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/25/04 08:27	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		10/25/04 08:27	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		10/25/04 08:27	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879794 | Project Sample Number: 9279798-016 | Date Collected: 10/13/04 12:30
Client Sample ID: MW-4 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	200	ug/l	1.0	10/25/04 11:26	MSF	540-59-0		
cis-1,2-Dichloroethene	190	ug/l	2.0	10/25/04 11:26	MSF	156-59-2		
trans-1,2-Dichloroethene	11.	ug/l	1.0	10/25/04 11:26	MSF	156-60-5		
Trichloroethene	280	ug/l	2.0	10/25/04 11:26	MSF	79-01-6		
Vinyl chloride	1.3	ug/l	1.0	10/25/04 11:26	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/25/04 11:26	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 11:26	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/25/04 11:26	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/25/04 11:26	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879810 | Project Sample Number: 9279798-017 | Date Collected: 10/13/04 14:00
Client Sample ID: MW-5 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	340	ug/l	1.0	10/25/04 11:52	MSF	540-59-0		
cis-1,2-Dichloroethene	330	ug/l	50.	10/25/04 11:52	MSF	156-59-2		
trans-1,2-Dichloroethene	13.	ug/l	1.0	10/25/04 11:52	MSF	156-60-5		
Trichloroethene	5900	ug/l	50.	10/25/04 11:52	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 11:52	MSF	75-01-4		
Toluene-d8 (S)	116	%		10/25/04 11:52	MSF	2037-26-5	1	
4-Bromofluorobenzene (S)	93	%		10/25/04 11:52	MSF	460-00-4		
Dibromofluoromethane (S)	106	%		10/25/04 11:52	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		10/25/04 11:52	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879604 | Project Sample Number: 9279798-010 | Date Collected: 10/12/04 15:40
Client Sample ID: MW-6 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 08:53	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 08:53	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 08:53	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 08:53	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 08:53	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/25/04 08:53	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 08:53	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/25/04 08:53	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	91	%		10/25/04 08:53	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879570 | Project Sample Number: 9279798-008 | Date Collected: 10/12/04 14:15
Client Sample ID: MW-7 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 08:01	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 08:01	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 08:01	MSF	156-60-5		
Trichloroethene	2.2	ug/l	1.0	10/25/04 08:01	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 08:01	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/25/04 08:01	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 08:01	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/25/04 08:01	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		10/25/04 08:01	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879562 | Project Sample Number: 9279798-007 | Date Collected: 10/12/04 14:30
Client Sample ID: MW-8 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 07:36	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 07:36	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 07:36	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 07:36	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 07:36	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/25/04 07:36	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 07:36	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/25/04 07:36	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		10/25/04 07:36	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879539 | Project Sample Number: 9279798-006 | Date Collected: 10/12/04 14:15
Client Sample ID: MW-9 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	9.7	ug/l	1.0	10/24/04 02:47	MSF	540-59-0		
cis-1,2-Dichloroethene	9.7	ug/l	1.0	10/24/04 02:47	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 02:47	MSF	156-60-5		
Trichloroethene	190	ug/l	1.0	10/24/04 02:47	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/24/04 02:47	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/24/04 02:47	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/24/04 02:47	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		10/24/04 02:47	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		10/24/04 02:47	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879463 | Project Sample Number: 9279798-005 | Date Collected: 10/12/04 13:50
Client Sample ID: MW-10 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	8.5	ug/l	1.0	10/24/04 02:21	MSF	540-59-0		
cis-1,2-Dichloroethene	8.5	ug/l	1.0	10/24/04 02:21	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 02:21	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/24/04 02:21	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/24/04 02:21	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/24/04 02:21	MSF	2037-26-5		
4-Bromofluorobenzene (S)	101	%		10/24/04 02:21	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/24/04 02:21	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		10/24/04 02:21	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879661 | Project Sample Number: 9279798-012 | Date Collected: 10/12/04 17:00
Client Sample ID: MW-11 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 09:44	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 09:44	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 09:44	MSF	156-60-5		
Trichloroethene	1.7	ug/l	1.0	10/25/04 09:44	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 09:44	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/25/04 09:44	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 09:44	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/25/04 09:44	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		10/25/04 09:44	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879950 | Project Sample Number: 9279798-023 | Date Collected: 10/14/04 14:00
Client Sample ID: MW-12 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 20:10	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 20:10	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 20:10	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 20:10	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 20:10	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/25/04 20:10	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/25/04 20:10	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/25/04 20:10	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		10/25/04 20:10	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879968 | Project Sample Number: 9279798-024 | Date Collected: 10/14/04 14:10
Client Sample ID: MW-13 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 20:36	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 20:36	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 20:36	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 20:36	MSF	79-01-6		
Vinyl chloride	6.8	ug/l	1.0	10/25/04 20:36	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/25/04 20:36	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/25/04 20:36	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/25/04 20:36	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		10/25/04 20:36	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879869
Client Sample ID: MW-15

Project Sample Number: 9279798-018
Matrix: Water

Date Collected: 10/14/04 10:00
Date Received: 10/22/04 09:30

GC/MS Volatiles

GC/MS VOCs by 8260, low level — Method: EPA 8260

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 18:00	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 18:00	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 18:00	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 18:00	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 18:00	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/25/04 18:00	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 18:00	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		10/25/04 18:00	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		10/25/04 18:00	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879893 | Project Sample Number: 9279798-019 | Date Collected: 10/14/04 11:15
Client Sample ID: MW-15A | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 18:26	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 18:26	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 18:26	MSF	156-60-5		
Trichloroethene	1.1	ug/l	1.0	10/25/04 18:26	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 18:26	MSF	75-01-4		
Toluene-d8 (S)	94	%		10/25/04 18:26	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/25/04 18:26	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/25/04 18:26	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		10/25/04 18:26	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879901
Client Sample ID: MW-16

Project Sample Number: 9279798-020
Matrix: Water

Date Collected: 10/14/04 10:45
Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 18:52	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 18:52	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 18:52	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 18:52	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 18:52	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/25/04 18:52	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 18:52	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/25/04 18:52	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/25/04 18:52	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879927 | Project Sample Number: 9279798-021 | Date Collected: 10/14/04 11:45
Client Sample ID: MW-16A | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 19:18	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 19:18	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 19:18	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 19:18	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 19:18	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/25/04 19:18	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 19:18	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/25/04 19:18	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/25/04 19:18	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879976 | Project Sample Number: 9279798-025 | Date Collected: 10/14/04 14:25
Client Sample ID: MW-17 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 21:03	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 21:03	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 21:03	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 21:03	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 21:03	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/25/04 21:03	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/25/04 21:03	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/25/04 21:03	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/25/04 21:03	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880057
Client Sample ID: MW-19

Project Sample Number: 9279798-028
Matrix: Water

Date Collected: 10/13/04 14:50
Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 05:01	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 05:01	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 05:01	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 05:01	MSF	127-18-4		
Trichloroethene	8.5	ug/l	1.0	10/25/04 05:01	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 05:01	MSF	75-01-4		
Toluene-d8 (S)	103	%		10/25/04 05:01	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/25/04 05:01	MSF	460-00-4		
Dibromofluoromethane (S)	97	%		10/25/04 05:01	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	87	%		10/25/04 05:01	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880206 Project Sample Number: 9279798-032 Date Collected: 10/13/04 00:00
Client Sample ID: DU-04401 (mw-19) Matrix: Water Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 06:44	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 06:44	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 06:44	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 06:44	MSF	127-18-4		
Trichloroethene	7.8	ug/l	1.0	10/25/04 06:44	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 06:44	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/25/04 06:44	MSF	2037-26-5		
4-Bromofluorobenzene (S)	100	%		10/25/04 06:44	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/25/04 06:44	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		10/25/04 06:44	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879943 | Project Sample Number: 9279798-022 | Date Collected: 10/14/04 13:30
Client Sample ID: MW-20 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	4.1	ug/l	1.0	10/25/04 19:44	MSF	540-59-0		
cis-1,2-Dichloroethene	4.1	ug/l	1.0	10/25/04 19:44	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 19:44	MSF	156-60-5		
Trichloroethene	8.0	ug/l	1.0	10/25/04 19:44	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 19:44	MSF	75-01-4		
Toluene-d8 (S)	95	%		10/25/04 19:44	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/25/04 19:44	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/25/04 19:44	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/25/04 19:44	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879687 | Project Sample Number: 9279798-014 | Date Collected: 10/13/04 10:50
Client Sample ID: MW-22 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 10:35	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 10:35	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 10:35	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 10:35	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 10:35	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/25/04 10:35	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 10:35	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/25/04 10:35	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		10/25/04 10:35	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880099 | Project Sample Number: 9279798-030 | Date Collected: 10/13/04 16:10
Client Sample ID: MW-23 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 05:53	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 05:53	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 05:53	MSF	156-60-5		
Tetrachloroethene	3.4	ug/l	1.0	10/25/04 05:53	MSF	127-18-4		
Trichloroethene	2.1	ug/l	1.0	10/25/04 05:53	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 05:53	MSF	75-01-4		
Toluene-d8 (S)	102	%		10/25/04 05:53	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 05:53	MSF	460-00-4		
Dibromofluoromethane (S)	96	%		10/25/04 05:53	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		10/25/04 05:53	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880305 | Project Sample Number: 9279798-037 | Date Collected: 10/12/04 09:45
Client Sample ID: MW-24 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/26/04 06:31	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/26/04 06:31	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/26/04 06:31	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/26/04 06:31	MSF	127-18-4		
Trichloroethene	4.2	ug/l	1.0	10/26/04 06:31	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/26/04 06:31	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/26/04 06:31	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/26/04 06:31	MSF	460-00-4		
Dibromofluoromethane (S)	106	%		10/26/04 06:31	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/26/04 06:31	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880073 | Project Sample Number: 9279798-029 | Date Collected: 10/13/04 15:40
Client Sample ID: MW-26R | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	14.	ug/l	1.0	10/25/04 05:27	MSF	540-59-0		
cis-1,2-Dichloroethene	14.	ug/l	1.0	10/25/04 05:27	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 05:27	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 05:27	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/25/04 05:27	MSF	79-01-6		
Vinyl chloride	9.0	ug/l	1.0	10/25/04 05:27	MSF	75-01-4		
Toluene-d8 (S)	102	%		10/25/04 05:27	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/25/04 05:27	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/25/04 05:27	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		10/25/04 05:27	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880214
Client Sample ID: DU-04402 (MW-26R)

Project Sample Number: 9279798-033
Matrix: Water

Date Collected: 10/13/04 00:00
Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	14.	ug/l	1.0	10/25/04 07:10	MSF	540-59-0		
cis-1,2-Dichloroethene	14.	ug/l	1.0	10/25/04 07:10	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 07:10	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 07:10	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/25/04 07:10	MSF	79-01-6		
Vinyl chloride	8.4	ug/l	1.0	10/25/04 07:10	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/25/04 07:10	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/25/04 07:10	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/25/04 07:10	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	87	%		10/25/04 07:10	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879737 | Project Sample Number: 9279798-015 | Date Collected: 10/12/04 16:15
Client Sample ID: MW-27 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 11:01	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 11:01	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 11:01	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/25/04 11:01	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 11:01	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/25/04 11:01	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/25/04 11:01	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		10/25/04 11:01	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/25/04 11:01	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880024 | Project Sample Number: 9279798-026 | Date Collected: 10/14/04 09:25
Client Sample ID: MW-28 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 21:29	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 21:29	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 21:29	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 21:29	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/25/04 21:29	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 21:29	MSF	75-01-4		
Toluene-d8 (S)	94	%		10/25/04 21:29	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/25/04 21:29	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		10/25/04 21:29	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		10/25/04 21:29	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880032 | Project Sample Number: 9279798-027 | Date Collected: 10/14/04 09:40
Client Sample ID: MW-28A | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	3.3	ug/l	1.0	10/25/04 21:55	MSF	540-59-0		
cis-1,2-Dichloroethene	3.3	ug/l	1.0	10/25/04 21:55	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 21:55	MSF	156-60-5		
Tetrachloroethene	16.	ug/l	1.0	10/25/04 21:55	MSF	127-18-4		
Trichloroethene	10.	ug/l	1.0	10/25/04 21:55	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 21:55	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/25/04 21:55	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/25/04 21:55	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/25/04 21:55	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		10/25/04 21:55	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880263 | Project Sample Number: 9279798-035 | Date Collected: 10/12/04 10:20
Client Sample ID: RW-1 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	29.	ug/l	1.0	10/25/04 12:18	MSF	540-59-0		
cis-1,2-Dichloroethene	28.	ug/l	1.0	10/25/04 12:18	MSF	156-59-2		
trans-1,2-Dichloroethene	1.0	ug/l	1.0	10/25/04 12:18	MSF	156-60-5		
Tetrachloroethene	18.	ug/l	1.0	10/25/04 12:18	MSF	127-18-4		
Trichloroethene	1100	ug/l	10.	10/25/04 12:18	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 12:18	MSF	75-01-4		
Toluene-d8 (S)	102	%		10/25/04 12:18	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/25/04 12:18	MSF	460-00-4		
Dibromofluoromethane (S)	106	%		10/25/04 12:18	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		10/25/04 12:18	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880289 | Project Sample Number: 9279798-036 | Date Collected: 10/12/04 10:00
Client Sample ID: RW-4 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	3.5	ug/l	1.0	10/26/04 06:05	MSF	540-59-0		
cis-1,2-Dichloroethene	3.5	ug/l	1.0	10/26/04 06:05	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/26/04 06:05	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/26/04 06:05	MSF	127-18-4		
Trichloroethene	200	ug/l	1.0	10/26/04 06:05	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/26/04 06:05	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/26/04 06:05	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/26/04 06:05	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/26/04 06:05	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		10/26/04 06:05	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879380 | Project Sample Number: 9279798-001 | Date Collected: 10/12/04 11:00
Client Sample ID: SW-1 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/24/04 00:37	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 00:37	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 00:37	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/24/04 00:37	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/24/04 00:37	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/24/04 00:37	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/24/04 00:37	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/24/04 00:37	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		10/24/04 00:37	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879398 | Project Sample Number: 9279798-002 | Date Collected: 10/12/04 11:30
Client Sample ID: SW-2 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/24/04 01:03	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 01:03	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 01:03	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/24/04 01:03	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/24/04 01:03	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/24/04 01:03	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/24/04 01:03	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		10/24/04 01:03	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		10/24/04 01:03	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879422 | Project Sample Number: 9279798-003 | Date Collected: 10/12/04 12:00
Client Sample ID: SW-3 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/24/04 01:29	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 01:29	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 01:29	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/24/04 01:29	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/24/04 01:29	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/24/04 01:29	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/24/04 01:29	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/24/04 01:29	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		10/24/04 01:29	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924879448
Client Sample ID: SW-4

Project Sample Number: 9279798-004
Matrix: Water

Date Collected: 10/12/04 12:30
Date Received: 10/22/04 09:30

GC/MS Volatiles

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/24/04 01:55	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 01:55	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/24/04 01:55	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/24/04 01:55	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/24/04 01:55	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/24/04 01:55	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/24/04 01:55	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/24/04 01:55	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		10/24/04 01:55	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880248 | Project Sample Number: 9279798-034 | Date Collected: 10/13/04 00:00
Client Sample ID: TBLK-04401 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 17:34	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 17:34	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 17:34	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 17:34	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/25/04 17:34	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 17:34	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/25/04 17:34	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/25/04 17:34	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/25/04 17:34	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	91	%		10/25/04 17:34	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

Lab Sample No: 924880131 | Project Sample Number: 9279798-031 | Date Collected: 10/13/04 14:00
Client Sample ID: RBLK-04401 | Matrix: Water | Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/25/04 06:18	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 06:18	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/25/04 06:18	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/25/04 06:18	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/25/04 06:18	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/25/04 06:18	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/25/04 06:18	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/25/04 06:18	MSF	460-00-4		
Dibromofluoromethane (S)	97	%		10/25/04 06:18	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		10/25/04 06:18	MSF	17060-07-0		

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

PARAMETER FOOTNOTES

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	High surrogate recovery was confirmed as a matrix effect by a second analysis.

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Lab Project Number: 9279798
Client Project ID: SKF Girmes Site/70144.34

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Compound concentration exceeds the calibration range of the instrument (CLP E-Flag).

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Charlotte Certification IDs

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SC	99006
FL NELAP	E87627

9279798

75030

CHAIN OF CUSTODY RECORD

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.34

Project/Client: SKF Girmes Site

Project Manager/Contact Person: Dan Madison, Britney Barns, Mike Parker, Mark Bailey

Filtered (Yes/No) ND

Preserved (Code) E

Analyses Requested: VOC 40ml.

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 04 Date	Time	Sample Station ID	Total Number of Containers	MATRIX									Comments:
001	10-12	11:00	SW-1	3	GW	3								852270 See work order 924879380
002	10-12	11:30	SW-2	3	GW	3								924879398
003	10-12	12:00	SW-3	3	GW	3								924879422
004	10-12	12:30	SW-4	3	GW	3								924879448
005	10-12	13:50	MW-10	3	GW	3								924879463
006	10-12	14:15	MW-9	3	GW	3								924879539
007	10-12	14:30	MW-8	3	GW	3								924879562
008	10-12	14:15	MW-7	3	GW	3								924879570
009	10-12	15:10	MW-2	3	GW	3								924879588
010	10-12	15:40	MW-6	3	GW	3								924879604

SPECIAL INSTRUCTIONS Fedex# 8473 5945 0966

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Earl Ellison	10-14-04	Fedex	10-14-04
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Fed Ex	10/15/04 9:30	L. Moore	10/15/04 9:30
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
L. Moore	10/20/04 10:00	J. Elliott	10/20 0930

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 1°C

Temp Blank Y (N)

Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

CHAIN OF CUSTODY RECORD

75031

RMT
30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.34
Project/Client: SKF Gimes Site
Project Manager/Contact Person: Dan Madison, Britney Barnes, Mike Parton, Mark Bailey

Filtered (Yes/No) NO
Preserved (Code) E

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 04 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC	HOML							Comments: 852270
011	10-12	16:15	MW-27 924879638	3	GW	3								See Work Order
012	10-12	17:00	MW-11	3	GW	3								924879661
013	10-13	09:30	MW-1	3	GW	3								924879679
014	10-13	10:50	MW-22	3	GW	3								924879687
015	10-12	16:15	MS/MSD MW-27	6	GW	6								924879737
016	10-13	12:30	MW-4	3	GW	3								924879794
017	10-13	14:00	MW-5	3	GW	3								924879810
018	10-13	14:50	MW-19	3	GW	3								924880057
019	10-13	15:40	MW-26R	3	GW	3								924880073
020	10-13	16:10	MW-23	3	GW	3								924880099

SPECIAL INSTRUCTIONS fedex# 8473 5945 0966

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Earl Ellison	10-14-04	Fedex	10-14-04
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	10/15/04 9:30	[illegible]	10/15/04 9:30
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[illegible]	10/21/04 16:00	J. Elliott	10/22 930

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: 10°C
Temp Blank Y (N)
Receipt pH (Wet/Metals) _____

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

CHAIN OF CUSTODY RECORD

75033

RMT
30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.34
Project/Client: SKF Grimes Site
Project Manager/Contact Person: Dan Madison, Britney Barnes, Mike Pantier, Mark Bailey

Filtered (Yes/No) NO
Preserved (Code) E

Lab No.	Yr. 04 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC 40mL								Comments: 852270
021	10-14	09:25	MW-28 9248800 24	3	GW	3								See Work Order
022	10-14	09:40	MW-28A	3	GW	3								92488 0032
023	10-14	10:00	MW-15	3	GW	3								924879869
024	10-14	11:15	MW-15A	3	GW	3								924879893
025	10-14	10:45	MW-16	3	GW	3								924879901
026	10-14	11:45	MW-16A	3	GW	3								924879927
027	10-14	13:30	MW-20	3	GW	3								924879943
028	10-14	14:00	MW-12	3	GW	3								924879950
029	10-14	14:10	MW-13	3	GW	3								924879968
030	10-14	14:25	MW-17	3	GW	3								924879976

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS Fedex# 8473 5945 0966

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Earl Ellison	10-14-04	Fedex	10-14-04
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	10/15/04 9:30	L. Williams	10/15/04 9:30
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
L. Williams	10/21/04 16:00	J. Elliott	10/22 930

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: Temp Blank Y ☒ 1°C
Receipt pH (Wet/Metals)

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

CHAIN OF CUSTODY RECORD

75032

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.34 | Project/Client: SKF Girmes Site

Project Manager/Contact Person: Dan Madison, Britney Barnes, Mike Parker, Mark Bailey

Filtered (Yes/No) no

Preserved (Code) E

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 04 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOC 40mL								Comments: 852270
031	10-13	14:00	RBLK-04401 924880131	3	DI	3								See Work Order
032		1'	DU-04401	3	GW	3								924880206
033			DU-04402	3	GW	3								924880214
034			TBLK 04401 924880248	3	DI	3								Non Euchem blank.
035	10-12	10:20	RW-1	3	GW	3								924880263 4 10/15/04
036	10-12	10:00	RW-4	3	GW	3								924880289
			~~MW~~ DEE											~~924880305~~ KAK
037	10/12	9:45	MW-24 **											924880305
														** Rec'd. on COC added by hand

SPECIAL INSTRUCTIONS fedex# 8473 5945 0966

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Earl Elliott	10-14-04	fedex	10-14-04
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FedEx	10/15/04 9:30	L. Williams	10/15/04
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
L. Williams	10/22/04 16:00	J. Elliott	10/22 930

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 1°C

Temp Blank Y ☑

Receipt pH (Wet/Metals) _____

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES WERE INCLUDED AS PART OF THE BASE MAP.

NORTH CAROLINA LICENSED SEAL 249 GEOLOGIST DAN O. MADISON, JR.
12/13/04

0 100 200 300 400

SCALE IN FEET

JECT MGR:	D.O. MADISON	RMT	Patewood Plaza One, Suite 100 30 Patewood Drive Greenville, South Carolina 864-281-0030
PARED BY:	B.C. BARNES		
WN BY:	A.R. RICE		
CKED BY:		**CONFIGURATION OF WATER TABLE OCTOBER 5, 2004 GIRMES SITE, FORMERLY SKF USA ASHEVILLE, NORTH CAROLINA**	
ROVED BY:			
ROVED BY:			
ROVED BY:			
E:	DECEMBER 2004	SCALE AS NOTED	PLATE NO. 1
NO:	70144.34		

RMT®
Integrated Environmental Solutions

30 Patewood Drive, Suite 100
Patewood Plaza One
Greenville, SC 29615-3535
Telephone: 864-281-0030
Fax: 864-281-0288

www.rmtinc.com

June 22, 2005

Ms. Laura Kay Dechant, Hydrogeologist
Groundwater Section
North Carolina Department of Environment and Natural Resources
Division of Environmental Management
50 Woodfin Place
Asheville, North Carolina 28801

6/05

Subject: Groundwater Monitoring Report
Girmes Site, Formerly SKF USA Inc. (SKF)
Groundwater Incident No. 10032
Buncombe County, North Carolina

Dear Kay:

Enclosed is the groundwater monitoring report for the March/April 2004 sampling event at the Girmes site (formerly SKF) in Asheville, North Carolina. We are scheduled to conduct the next groundwater sampling event in October 2004.

If you have questions, please call me at (864) 281-0030.

Sincerely,

RMT North Carolina, Inc.

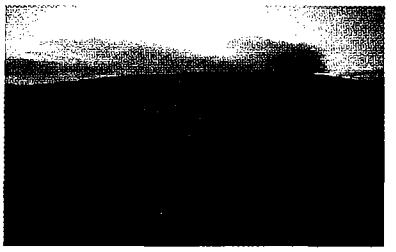
Michael B. Parker

Michael B. Parker, P.E.
Senior Client Service Manager

Attachment

cc with enclosure: William McGlocklin
Billy Clarke
Leanne Campbell
Dan Madison
File 00-70144.36

30 Patewood Drive, Suite 100
Greenville, South Carolina 29615-3535
Telephone (864) 281-0030
Fax (864) 281-0288



Groundwater Monitoring Report for the April 2005 Sampling Event Groundwater Incident No. 10032

Girmes Site, Formerly SKF USA Inc.

Buncombe County, North Carolina

June 2005

Michael B. Parker, P.E.
Senior Client Service Manager

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Certification

The hydrogeology work for the Girmes Site, formerly SKF USA Inc., in Buncombe County, North Carolina, was performed by an RMT, Inc. consulting hydrogeologist in support of RMT North Carolina, Inc.

NORTH CAROLINA LICENSED SEAL 249 GEOLOGIST DAN O. MADISON, JR.

Dan O. Madison, Jr., P.G.
RMT, Inc.

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Executive Summary

SKF USA Inc. (SKF) operates a groundwater recovery and treatment system at the former J.L. deBall Girmes of America (Girmes) site in Asheville, North Carolina. The system operated continuously from March 1998 until November 11, 2002. Since November 2002, the recovery system has operated on a pulsed pumping cycle. Each cycle consists of six weeks of system operation followed by six weeks of system shut down.

Groundwater and surface water samples are collected at the site on a semiannual basis. Groundwater elevations are measured in monitoring and recovery wells during each sampling event. The latest sampling event was conducted during the week of April 4, 2005. On the northeast side of the Girmes facility, trichloroethene (TCE) was detected in five wells (MW-2, MW-4, MW-5, MW-9, and MW-20) at concentrations exceeding the North Carolina 2L standard. 1,2-Dichloroethene (1,2-DCE) was detected in two wells (MW-4 and MW-5) at concentrations exceeding the 2L standard. Vinyl chloride was detected in wells MW-4 and MW-13 at concentrations exceeding the 2L standard.

On the southwest side of the Girmes facility, one well (MW-14) was dry and could not be sampled. Five of the remaining monitoring wells (MW-21, MW-23, MW-24, MW-26R, and MW-28A) and recovery wells RW-1 and RW-4 had TCE concentrations exceeding the 2L standard. 1,2-DCE was not detected in either the monitoring wells or the recovery wells on the southwest side of the Girmes facility at concentrations exceeding the 2L standard. Vinyl chloride was detected in well MW-26R at a concentration exceeding the 2L standard.

None of the surface water samples had detections of TCE, 1,2-DCE, or vinyl chloride.

The estimated amount of groundwater that was recovered and treated during November 2005 through April 2005 is 3.44 million gallons. It is estimated that over 37 pounds of TCE were removed during that period. Pulse pumping of the groundwater recovery system has increased the amount of TCE removed on an annual basis while significantly reducing the volume of water treated. It is recommended that pulse pumping of the recovery system continue in 2005.

Section 1
Introduction

The Girmes site is a former textile plant located on Old Highway 74 East in Asheville, North Carolina. Girmes owned the site from 1973 until 2001 when it was purchased by LMC, LLC. The site was formerly occupied by SKF from approximately 1960 to 1973. The North Carolina Department of Environment and Natural Resources (NC DENR) issued SKF a Notice of Violation (NOV) on April 2, 1993 (Groundwater Incident Number 10032). In response to the NOV and associated correspondence, SKF conducted comprehensive site assessment (CSA) activities in 1993 and 1994. Volatile organic compounds (VOCs), in particular TCE, 1,2-DCE, and vinyl chloride, were found in groundwater at the site. The results of the CSA were submitted to NC DENR in November 1994. Following the CSA, a corrective action plan (CAP) to address the VOC-impacted groundwater was prepared and submitted to NC DENR in October 1996.

RMT North Carolina, Inc. (RMT) was retained by SKF to implement the CAP. A groundwater recovery system consisting of three groundwater recovery wells and an air stripper unit was installed in 1997 and early 1998. The system began operation on March 4, 1998.

The CAP specified that groundwater elevations were to be measured in all wells on a quarterly basis. Water samples were to be collected from all 29 monitoring wells, 3 recovery wells, and 4 surface water stations, on a semiannual basis. Thirteen of these monitoring wells, along with the three recovery wells, were also to be sampled quarterly. The CAP specified that the samples were to be analyzed for TCE, 1,2-DCE, and vinyl chloride.

On December 11, 2000, NC DENR approved reducing the monitoring frequency from quarterly to semiannually. Beginning in 2001, the 29 monitoring wells, 3 recovery wells, and 4 surface water stations were sampled on a semiannual basis. Groundwater elevations were also measured on a semiannual basis. Water samples and elevations are now collected in April and October of each year.

In August 2002, RMT proposed to switch the operation of the groundwater recovery system from continuous pumping to a pulsed pumping schedule in an effort to increase contaminant recovery. In October 2002, RMT proposed further modifications to the pumping cycle. Under the pulsed pumping schedule, the groundwater recovery system would operate one cycle per quarter. Each cycle consists of 6 weeks of pumping followed by 6 weeks of no pumping.

Ms. Kay Dechant of NC DENR approved the modified pulse pumping plan on October 14, 2002, and the first pumping cycle was initiated on November 11, 2002.

The latest semiannual sampling event was conducted during the week of April 4, 2005. This report presents results of the April 2005 sampling event.

Section 2
Groundwater Elevations

The recovery system has been operating on a pulsed pumping cycle since November 11, 2002. During this monitoring period, groundwater levels were measured on April 4, 2005, prior to system start-up on April 5, 2005, and prior to the groundwater sampling event. Water levels are summarized in Table 1 along with pre-startup elevations measured in January 1998, and historical water levels measured since system startup.

Water levels measured on April 4, 2005, were used to construct the water table map shown on Plate 1. These water levels reflect water table conditions near the end of the system-off cycle. As specified in the CAP, hydrographs were also prepared for bedrock wells MW-4, MW-5, MW-14, MW-17, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-27, and MW-28A. These hydrographs are presented in Appendix A.

The hydrographs for wells MW-14, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, and MW-27 and historical water table maps have shown a cone of depression around the recovery wells during times of system operation. As expected, the April 2005 (see Plate 1) water levels, measured before the recovery system was restarted following an "off" cycle, do not show this cone of depression around the recovery system.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		01/21/98*	07/29/98	10/15/98	01/05/99	04/20/99	07/01/99
MW-1	2,123.16	2,066.52	2,070.69	2,069.22	2,065.99	2,065.31	2,064.71
MW-2	2,074.52	2,053.45	2,053.59	2,052.65	2,052.87	2,052.94	2,053.45
MW-4	2,122.38	2,061.38	2,062.27	2,061.36	2,060.89	2,061.75	2,061.39
MW-5	2,121.44	2,058.17	2,059.24	2,058.29	2,057.45	2,057.11	2,056.94
MW-6	2,102.22	2,058.96	2,060.80	2,059.50	2,058.56	2,058.31	2,057.82
MW-7	2,071.17	2,052.76	2,052.82	2,052.42	2,052.34	2,052.44	2,052.36
MW-8	2,075.22	2,054.34	2,054.60	2,053.57	2,053.26	2,053.89	2,054.10
MW-9	2,072.29	2,053.32	2,054.37	2,053.61	2,053.15	2,054.50	2,053.45
MW-10	2,076.30	2,052.95	2,033.79	2,050.70	2,051.08	2,053.25	2,051.79
MW-11	2,109.60	2,046.88	2,044.25	2,041.25	2,039.26	2,039.45	2,038.37
MW-12	2,040.65	2,038.44	2,032.49	2,031.57	2,033.09	2,031.37	2,033.56
MW-13	2,044.67	2,037.38	2,033.76	2,031.99	2,031.49	2,033.42	2,032.25
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,046.02	2,046.09	2,045.67	2,045.25	2,045.75	2,045.25
MW-15A	2,058.16	2,047.38	2,046.75	2,046.11	2,045.73	2,046.20	2,045.95
MW-16	2,059.22	2,052.79	2,052.74	2,052.75	2,052.70	2,052.77	2,052.79
MW-16A	2,059.33	2,053.16	2,053.04	2,053.07	2,053.15	2,053.08	2,052.96
MW-17	2,056.71	2,050.77	2,046.05	2,043.77	2,043.96	2,047.10	2,045.47
MW-18	2,036.36	2,023.81	<2010.30	<2010.30	<2010.30	<2010.30	<2010.30
MW-19	2,037.74	2,018.32	2,013.29	2,012.86	2,013.18	2,013.35	2,012.96
MW-20	2,027.36	2,013.59	2,012.86	2,012.30	2,012.28	2,012.59	2,012.27
MW-21	2,036.74	2,022.53	<2006.90	<2006.90	<2006.90	<2006.90	<2006.90
MW-22	2,082.12	2,038.87	2,037.80	2,035.89	2,027.47	<2025.90	<2025.90
MW-23	2,027.54	2,020.41	2,010.26	2,009.62	2,010.42	2,010.34	2,010.49
MW-24	2,035.05	2,021.21	2,010.71	2,009.78	2,010.80	2,010.82	2,010.72
MW-26R	2,021.35	2,015.12	2,015.23	2,014.08	2,014.64	2,015.35	2,014.76
MW-27	2,051.08	2,025.26	2,020.13	2,019.38	2,019.83	2,021.15	2,021.03
MW-28	2,022.48	2,012.11	2,011.33	2,011.37	2,011.70	2,012.22	2,011.57
MW-28A	2,022.69	2,012.36	2,011.22	2,011.11	2,011.52	2,011.30	2,011.33
RW-1	2,031.70	NM	1,955.30	1,951.93	1,968.90	1,961.13	1,967.09
RW-2	2,071.70	NM	2,051.09	2,050.32	2,049.72	2,050.52	2,050.15
RW-3	2,033.40	NM	1,991.13	1,996.98	1,935.75	1,951.25	1,935.88
RW-4	2,032.10	NM	1,982.98	1,982.30	1,986.74	1,985.84	1,984.70

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		10/25/99	01/25/00	04/18/00	08/04/00	10/23/00	04/09/01
MW-1	2,123.16	2,063.46	2,064.29	2,062.12	2,062.11	2,061.57	2,060.56
MW-2	2,074.52	2,052.39	2,052.28	2,053.06	2,052.65	2,052.18	NM
MW-4	2,122.38	2,060.63	2,060.43	2,061.84	2,060.73	2,060.30	2,060.67
MW-5	2,121.44	2,055.88	2,055.78	2,056.08	2,056.01	2,055.68	2,055.34
MW-6	2,102.22	2,056.72	2,056.37	2,056.94	2,056.42	2,056.02	2,055.79
MW-7	2,071.17	2,051.88	2,051.97	2,052.55	2,052.35	2,051.73	2,052.15
MW-8	2,075.22	2,052.65	2,052.46	2,054.46	2,053.82	2,053.47	2,053.96
MW-9	2,072.29	2,052.67	2,052.98	2,053.75	2,053.39	2,052.41	2,053.29
MW-10	2,076.30	2,049.77	2,052.32	2,055.15	2,052.30	2,051.37	2,053.76
MW-11	2,109.60	2,037.19	2,036.91	2,037.79	2,038.05	2,036.62	2,035.70
MW-12	2,040.65	2,028.13	2,030.41	2,036.74	NM	2,026.78	2,034.46
MW-13	2,044.67	2,030.23	2,030.32	2,034.76	2,032.18	2,029.64	2,032.54
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	2,039.83	<2040.20	<2040.20
MW-15	2,058.15	2,044.59	2,044.50	2,047.26	NM	2,044.33	2,047.66
MW-15A	2,058.16	2,045.61	2,045.55	2,046.20	NM	2,045.06	2,045.81
MW-16	2,059.22	2,052.61	2,052.77	2,052.51	NM	2,052.62	2,052.76
MW-16A	2,059.33	2,052.89	2,052.96	2,052.84	NM	2,052.81	2,052.95
MW-17	2,056.71	2,042.74	2,043.09	2,048.16	NM	2,041.97	2,045.15
MW-18	2,036.36	<2010.30	<2010.30	<2010.30	<2010.30	<2010.30	<2010.30
MW-19	2,037.74	2,013.09	2,013.61	2,014.85	2,014.77	2,012.66	2,014.69
MW-20	2,027.36	2,011.89	2,011.77	2,012.61	2,012.12	2,011.57	2,012.24
MW-21	2,036.74	<2006.90	<2006.90	<2006.90	2,007.11	<2006.90	<2006.90
MW-22	2,082.12	<2025.90	<2025.90	<2025.90	<2025.90	<2025.90	<2025.90
MW-23	2,027.54	2,011.70	2,011.25	2,013.30	2,016.40	2,010.26	2,014.60
MW-24	2,035.05	2,011.58	2,011.17	2,013.45	2,015.90	2,010.33	2,014.72
MW-26R	2,021.35	2,014.25	2,014.05	2,015.84	2,015.55	2,014.78	2,015.71
MW-27	2,051.08	2,019.80	2,021.11	2,021.81	2,021.95	2,019.20	2,021.96
MW-28	2,022.48	2,011.64	2,012.47	2,011.97	2,011.65	2,011.55	2,011.80
MW-28A	2,022.69	2,011.11	2,011.54	2,011.72	2,011.44	2,011.15	2,011.55
RW-1	2,031.70	1,967.95	1,950.66	1,960.80	2,005.76	1,955.56	1,989.42
RW-2	2,071.70	NM	NM	2,050.65	2,049.83	2,049.19	2,050.18
RW-3	2,033.40	1,935.77	1,991.85	1,936.00	1,961.15	1,939.67	1,976.97
RW-4	2,032.10	1,987.49	1,976.54	1,987.07	1,994.01	1,977.30	1,994.98

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea leve

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		10/03/01	04/01/02	10/21/02	01/03/03	02/14/03	03/31/03
MW-1	2,123.16	2,059.85	2,059.20	2,058.11	2,058.43	2,058.17	<2056.03
MW-2	2,074.52	2,052.32	2,052.43	2,051.96	2,052.42	2,052.13	2,052.56
MW-4	2,122.38	2,060.60	2,061.03	2,059.58	2,060.86	2,062.00	2,062.89
MW-5	2,121.44	2,055.35	2,055.13	2,054.60	2,054.85	2,055.04	2,055.61
MW-6	2,102.22	2,055.31	2,054.24	2,054.65	2,055.44	2,054.76	2,055.34
MW-7	2,071.17	2,051.89	2,052.12	2,051.75	2,052.07	2,051.87	2,052.18
MW-8	2,075.22	2,052.65	2,053.34	2,052.58	2,056.57	2,053.34	2,053.99
MW-9	2,072.29	2,052.96	2,053.71	2,052.83	2,050.62	2,053.52	2,054.11
MW-10	2,076.30	2,053.34	2,056.66	2,054.94	2,055.18	2,055.64	2,056.51
MW-11	2,109.60	2,034.17	2,036.35	2,033.34	2,035.15	2,035.79	2,038.43
MW-12	2,040.65	2,027.51	2,032.83	2,028.36	2,034.33	2,033.16	2,036.75
MW-13	2,044.67	2,030.29	2,032.07	2,030.47	2,034.73	2,031.78	2,036.92
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,044.68	2,044.85	2,044.46	2,045.42	2,045.51	2,045.86
MW-15A	2,058.16	2,045.27	2,045.81	2,043.00	2,046.14	NM	2,046.52
MW-16	2,059.22	2,052.60	2,052.62	2,052.50	2,052.62	2,052.52	2,052.62
MW-16A	2,059.33	2,052.80	2,054.65	2,052.71	2,052.88	2,053.37	2,053.03
MW-17	2,056.71	2,042.34	2,045.26	2,042.44	2,046.83	2,044.54	2,051.33
MW-18	2,036.36	<2010.30	<2010.30	<2010.30	2,019.88	<2010.30	2,021.02
MW-19	2,037.74	2,012.39	2,013.55	2,012.59	2,016.28	2,013.43	2,017.76
MW-20	2,027.36	2,011.79	2,012.21	2,011.78	2,012.43	2,012.05	2,012.74
MW-21	2,036.74	<2006.90	<2006.90	<2006.90	2,011.95	<2006.90	2,021.51
MW-22	2,082.12	<2025.90	<2025.90	<2025.90	2,025.97	<2025.90	<2025.90
MW-23	2,027.54	2,009.88	2,010.81	2,010.50	2,018.37	2,010.83	2,019.94
MW-24	2,035.05	2,009.90	2,010.79	2,010.73	2,020.03	2,010.97	2,021.10
MW-26R	2,021.35	2,014.55	2,013.95	2,014.16	2,017.18	NM	2,018.12
MW-27	2,051.08	2,019.06	2,020.42	2,019.50	2,023.57	2,020.05	2,024.24
MW-28	2,022.48	2,011.57	2,012.73	2,011.63	2,012.18	2,011.47	2,011.89
MW-28A	2,022.69	2,011.03	2,011.79	2,011.08	2,011.91	2,011.02	2,011.70
RW-1	2,031.70	1,953.68	1,958.29	1,949.65	1,996.87	1,949.55	2,019.87
RW-2	2,071.70	2,049.89	2,050.96	2,049.99	2,050.72	2,050.89	2,051.43
RW-3	2,033.40	1,950.43	2,004.52	2,004.01	2,017.20	2,005.00	2,018.52
RW-4	2,032.10	1,966.66	1,973.11	1,980.49	2,010.00	1,983.13	2,020.02

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea leve

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT					
		06/26/03	08/11/03	10/06/03	11/07/03	03/29/04	05/17/04
MW-1	2,123.16	<2056.03	2,061.71	2,061.84	2,061.64	2,061.54	2,061.81
MW-2	2,074.52	2,053.32	2,053.38	2,052.77	2,052.69	2,052.83	2,052.97
MW-4	2,122.38	2,062.90	2,062.57	2,062.23	2,061.79	2,063.54	2,062.90
MW-5	2,121.44	2,057.56	2,057.84	2,057.65	2,057.45	2,057.73	2,058.22
MW-6	2,102.22	2,056.90	2,057.00	2,056.37	2,056.37	2,056.26	2,056.77
MW-7	2,071.17	2,052.75	2,052.72	2,052.26	2,052.31	2,052.39	2,052.52
MW-8	2,075.22	2,054.81	2,054.51	2,053.72	2,053.75	2,055.18	2,055.10
MW-9	2,072.29	2,054.87	2,054.58	2,054.06	2,053.85	2,054.46	2,054.94
MW-10	2,076.30	2,055.56	2,054.71	2,053.36	2,054.01	2,054.64	2,055.19
MW-11	2,109.60	2,041.65	2,041.00	2,040.15	2,039.62	2,041.93	2,042.55
MW-12	2,040.65	2,035.62	2,034.65	2,031.28	2,031.81	2,034.84	2,034.87
MW-13	2,044.67	2,036.62	2,035.70	2,033.80	2,034.27	2,035.01	2,034.96
MW-14	2,119.88	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,046.52	2,046.40	2,046.01	2,045.65	2,046.19	2,046.17
MW-15A	2,058.16	2,047.26	2,047.21	2,046.52	2,046.44	2,046.74	2,046.06
MW-16	2,059.22	2,052.65	2,052.62	2,052.61	2,052.57	2,052.60	2,052.61
MW-16A	2,059.33	2,052.90	2,052.83	2,052.84	2,052.88	2,052.97	2,052.99
MW-17	2,056.71	2,049.92	2,048.88	2,046.15	NM	2,050.55	2,050.16
MW-18	2,036.36	2,020.74	<2010.30	2,020.29	<2010.30	2,021.09	2,010.35
MW-19	2,037.74	2,016.54	2,014.03	2,015.66	2,013.65	2,016.02	2,013.47
MW-20	2,027.36	2,013.30	2,013.13	2,012.52	2,012.58	2,012.55	2,012.61
MW-21	2,036.74	2,021.09	2,006.29	2,020.51	2,006.02	2,020.74	2,006.06
MW-22	2,082.12	2,037.97	<2025.90	2,035.72	2,031.65	2,027.98	2,026.87
MW-23	2,027.54	2,019.63	2,012.17	2,018.88	2,011.72	2,019.02	2,021.39
MW-24	2,035.05	2,020.81	2,012.72	2,020.15	2,012.03	2,020.48	2,011.16
MW-26R	2,021.35	2,017.73	2,016.94	2,017.03	2,015.36	2,017.23	2,004.40
MW-27	2,051.08	2,023.77	2,021.53	2,023.04	2,020.75	2,023.57	2,020.52
MW-28	2,022.48	2,011.65	2,011.59	2,011.60	2,011.84	2,011.66	2,011.44
MW-28A	2,022.69	2,011.51	2,011.54	2,011.22	2,011.55	2,011.31	2,010.90
RW-1	2,031.70	2,019.75	1,958.92	2,019.20	1,961.28	2,019.27	1,957.15
RW-2	2,071.70	2,052.00	2,050.88	2,050.97	2,051.01	2,051.52	2,051.87
RW-3	2,033.40	2,018.65	2,005.44	2,018.07	2,005.19	2,018.06	2,004.55
RW-4	2,032.10	2,020.14	1,987.55	2,019.59	1,987.53	2,019.85	1,986.52

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea leve

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER ELEVATION AND DATE OF MEASUREMENT		
		10/05/04	10/11/04	04/04/05
MW-1	2,123.16	2,062.06	2,062.16	2,063.53
MW-2	2,074.52	2,053.52	2,053.34	2,053.43
MW-4	2,122.38	2,062.63	2,062.73	2,063.20
MW-5	2,121.44	2,058.46	2,057.78	2,059.44
MW-6	2,102.22	2,057.02	2,057.11	2,057.29
MW-7	2,071.17	2,052.78	2,053.03	2,052.92
MW-8	2,075.22	2,055.47	2,055.19	2,056.88
MW-9	2,072.29	2,055.07	2,055.00	2,056.01
MW-10	2,076.30	2,054.75	2,054.52	2,056.49
MW-11	2,109.60	2,042.59	2,042.87	2,044.28
MW-12	2,040.65	2,036.36	2,035.32	2,037.40
MW-13	2,044.67	2,037.05	2,035.97	2,038.06
MW-14	2,119.88	<2040.20	<2040.20	<2040.20
MW-15	2,058.15	2,046.44	2,046.40	2,046.41
MW-15A	2,058.16	2,046.91	2,047.72	2,046.87
MW-16	2,059.22	2,052.64	2,052.71	2,052.90
MW-16A	2,059.33	2,053.01	2,052.93	2,052.82
MW-17	2,056.71	2,051.08	2,049.80	2,053.05
MW-18	2,036.36	2,021.13	<2010.30	2,021.72
MW-19	2,037.74	2,016.52	2,015.47	2,019.08
MW-20	2,027.36	2,013.68	2,013.38	2,013.16
MW-21	2,036.74	2,021.41	<2006.90	2,022.01
MW-22	2,082.12	2,037.19	2,037.97	2,036.88
MW-23	2,027.54	2,019.61	2,014.71	2,019.89
MW-24	2,035.05	2,021.22	2,015.46	2,021.76
MW-26R	2,021.35	2,017.76	2,016.37	2,017.33
MW-27	2,051.08	2,024.59	2,022.53	2,024.90
MW-28	2,022.48	2,011.58	2,011.39	2,011.75
MW-28A	2,022.69	2,011.66	2,011.15	2,011.57
RW-1	2,031.70	2,019.87	1,980.09	2,020.48
RW-2	2,071.70	2,052.00	2,051.97	2,052.75
RW-3	2,033.40	2,018.83	2,010.75	2,019.12
RW-4	2,032.10	2,020.30	1,995.35	2,020.97

Elevations are in feet above mean sea level

[1] Top of casing measured in feet above mean sea level

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Section 3
Groundwater and Surface Water Quality

Groundwater samples were collected from 28 monitoring wells and from two recovery wells, RW-1 and RW-4, on April 5 through April 7, 2005. Recovery well RW-3 has been off-line since April 2002 because of low yield and related operational problems; thus, no groundwater samples have been collected at this location. Surface water samples were also collected from the four surface water stations (SW-1, SW-2, SW-3, and SW-4). Sampling locations are shown on Figure 1 and Plate 1. Monitoring well MW-14 was dry at that time due to drawdown and could not be sampled. Groundwater samples were analyzed for TCE, 1,2-DCE, and vinyl chloride. In addition, eight monitoring wells and two recovery wells (RW-1 and RW-4) were analyzed for tetrachloroethene (PCE). Analytical results are summarized in Table 2. Laboratory analytical reports are presented in Appendix B. Table 3 and Table 4 present summaries of historical concentrations of TCE and 1,2-DCE.

3.1 Standard Monitoring Program

During the April sampling event, 18 monitoring wells were sampled on the northeast side of the Girmes facility (Plate 1). TCE was detected in samples collected from six wells, with the concentrations exceeding the North Carolina (NC) 2L standard of 0.0028 mg/L in five of the wells (MW-2, MW-4, MW-5, MW-9, and MW-20). TCE concentrations increased in well MW-9. Three wells (MW-5, MW-7, and MW-15A) had a decrease in TCE concentrations since last sampled in October 2004. The TCE concentrations remained relatively unchanged in the four monitoring wells MW-2, MW-4, MW-11, and MW-20.

TCE concentrations in wells MW-2, MW-4, and MW-9 have exhibited temporal fluctuations over time but overall have declining trends. TCE concentrations in MW-4 and MW-9 have declined an order of magnitude since first sampled in November 1993. TCE concentrations in MW-2 have declined two orders of magnitude over the same time period. TCE concentrations in MW-5 and MW-20 both exhibited increasing trends until 2000 and have declined an order of magnitude since 2000.

1,2-DCE was detected in samples collected from five monitoring wells. The detected concentrations exceeded the NC 2L standard of 0.07 mg/L in two wells (MW-4 and MW-5). The 1,2-DCE concentration decreased in well MW-5 since last sampled in October 2004. The 1,2-DCE concentrations remained relatively unchanged in the four monitoring wells MW-4, MW-9, MW-10, and MW-20.

The 1,2-DCE concentrations in MW-4 have fluctuated over time but have exhibited an overall declining trend since first sampled in November 1993. The 1,2-DCE concentrations in MW-5 increased between November 1993 and October 2002 but have exhibited a decreasing trend since that time.

Vinyl chloride was detected in samples collected from two monitoring wells (MW-4 and MW-13). The detected concentrations exceeded the NC 2L standard of 0.000015 mg/L. Historically, vinyl chloride has been detected in most samples collected from MW-13, and in some of the samples collected from MW-4 since October 1999.

On the southwest side of the Girmes facility, 10 monitoring wells (MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-26R, MW-27, MW-28, and MW-28A) and 2 recovery wells (RW-1 and RW-4) were sampled. Monitoring well MW-14 was dry and could not be sampled. Recovery well RW-3 was not operating during the April 2005 sampling event and therefore was not sampled.

TCE was detected in groundwater samples collected from five monitoring wells (MW-21, MW-23, MW-24, MW-26R, and MW-28A) and both recovery wells, at concentrations exceeding the NC 2L standards. TCE was also detected in one monitoring well (MW-18) at a concentration below the NC 2L standard. 1,2-DCE was detected in groundwater samples collected from three of the monitoring wells (MW-21, MW-26R, and MW-28A) and in both recovery wells (RW-1 and RW-4), at concentrations below the NC 2L standard.

TCE concentrations increased in samples collected from monitoring well MW-26R, and recovery well RW-4, since last sampled in October 2004. TCE concentrations detected in samples collected from monitoring well MW-19 and recovery well RW-1 have decreased since last sampled in October 2004. TCE concentrations in monitoring wells MW-21, MW-23, MW-24, and MW-28A have remained generally unchanged since they were last sampled.

Monitoring wells MW-21 and MW-24, and recovery wells RW-1 and RW-4 are located on the Girmes facility property on the northeast side of Gashes Creek. TCE concentrations in both MW-21 and MW-24 have declined two to three orders of magnitude since first sampled in 1994. TCE concentrations in recovery wells RW-1 and RW-2 fluctuate over time (between 0.13 mg/L and 1.9 mg/L in MW-21 and between 0.034 mg/L and 0.4 mg/L in MW-24).

Monitoring wells MW-23, MW-26R, and MW-28A are located on the southwest side of Gashes Creek. TCE concentrations in MW-23 increased from 3.5 mg/L in August 1994 to 14 mg/L in early 1996. Since 1996, concentrations in MW-23 have declined four orders of magnitude. TCE concentrations in MW-28A peaked at a concentration of 0.14 mg/L in early 1996 and have

declined an order of magnitude since that time. TCE concentrations in MW-26R have fluctuated between none detected to 0.0096 mg/L.

Historically, the highest TCE concentration found on the southwest side of the Girmes facility was in monitoring well MW-23, opposite Gashes Creek from the Girmes facility. In addition PCE has been found in monitoring wells on the southwest side of Gashes Creek (see Subsection 3.2). This information indicates that VOCs found on that southwest side of the Gashes Creek are the result of a release on that side of the creek and not related to groundwater quality at the Girmes facility. Concentrations of 1,2-DCE have increased in the sample collected from MW-26R since last sampled in October 2004. Concentrations of 1,2-DCE have decreased in the sample collected from recovery well RW-1 since last sampled in October 2004. The 1,2-DCE concentration in RW-4 has remained generally unchanged since it was last sampled.

Vinyl chloride was detected in the sample collected from monitoring well MW-26R on the southwest side of the Girmes facility at a concentration exceeding the NC 2L standard. Monitoring well MW-26R is located on Dotson's property on the southwest side of Gashes Creek. The detected concentration in monitoring well MW-26R, 0.023 mg/L, has increased since the previous sampling event and remains above the NC 2L standard.

Surface water samples were collected from four surface water stations during the April sampling event, SW-1, SW-2, SW-3, and SW-4. None of the surface water samples collected had detections of TCE, 1,2-DCE, or vinyl chloride.

3.2 Additional Analytical Parameter

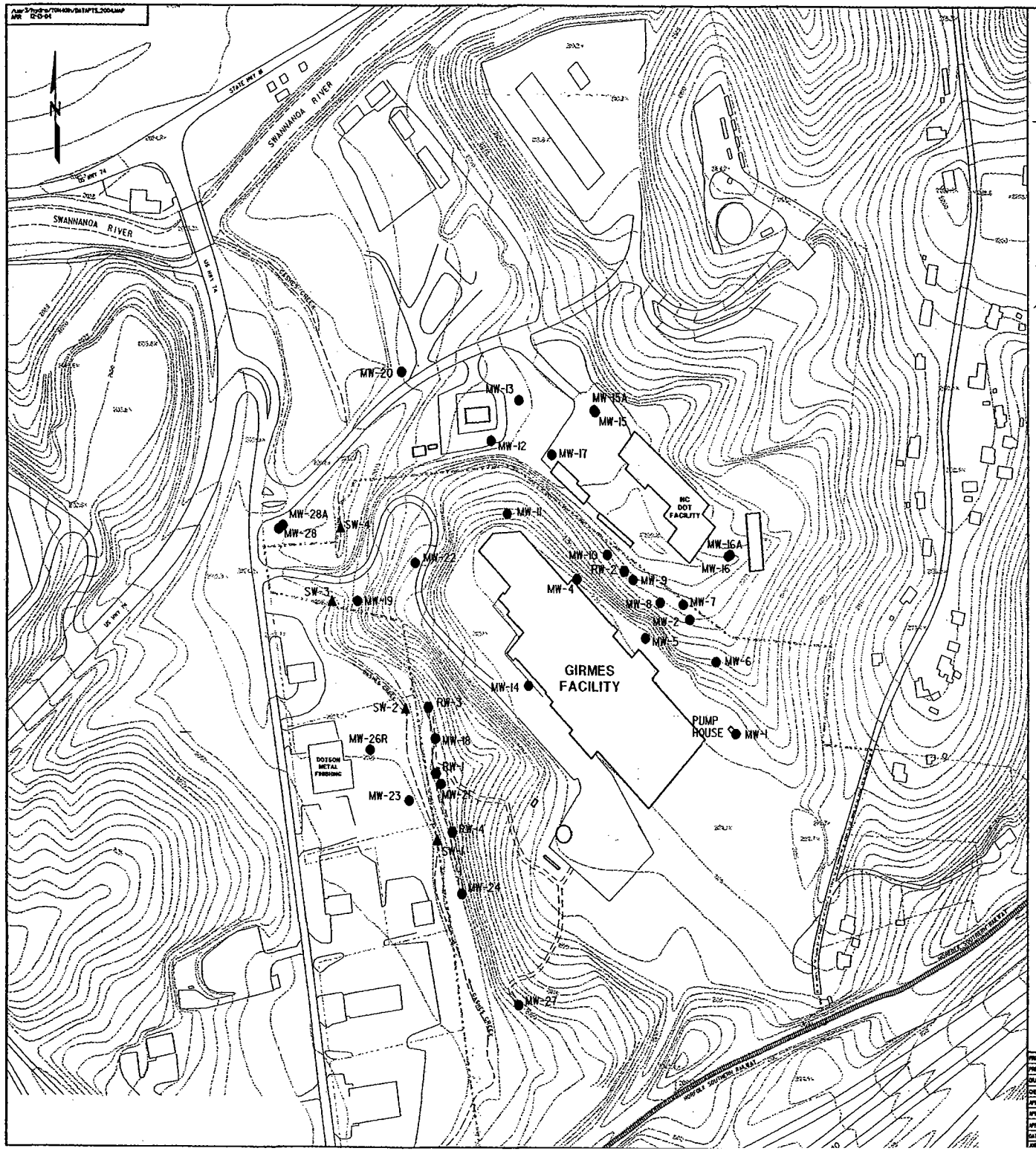
Since shortly after startup of the groundwater recovery system, PCE was found in the influent to the treatment system. Select monitoring wells sampled during the January 1999 monitoring event were analyzed for PCE in addition to the standard analytical parameters. The January 1999 analytical results, along with historical groundwater analytical data collected at the site during the CSA, led SKF to conclude that the PCE and other VOCs found on the southwest side of Gashes Creek have no relationship to the affected groundwater found on the Girmes facility.

In the groundwater monitoring report for the January 1999 sampling event, SKF modified the groundwater monitoring program to continue monitoring all of the wells specified in the CAP according to the specified schedule. In addition to TCE, 1,2-DCE, and vinyl chloride, recovery wells RW-1, RW-3, and RW-4 and select monitoring wells would also be sampled for PCE.

During the April 2005 sampling event, monitoring wells MW-18, MW-19, MW-21, MW-23, MW-24, MW-26R, MW-28, and MW-28A and the two operating recovery wells were analyzed for PCE. Analytical results are included in Table 2. PCE was detected in two monitoring wells

(MW-23 and MW-28A) at concentrations exceeding the NC 2L standards. The concentration of PCE detected in samples collected from monitoring wells MW-23 and MW-28A have decreased since last sampled in October 2004. The concentration of PCE in the sample collected from recovery well RW-01 has decreased to non-detect since last sampled in October 2004. When operating, recovery wells RW-1 and RW-4 recover groundwater from the southwest side of Gashes Creek.

The analytical results for PCE confirm the results from previous sampling events since January 1999. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility. However, SKF will continue to analyze groundwater samples from wells MW-18, MW-19, MW-21, MW-23, MW-24, MW-26R, MW-28, MW-28A, RW-1, RW-3, and RW-4 for PCE to monitor concentration trends and their effects on the groundwater recovery system.



LEGEND

▲ SW-1	SURFACE WATER SAMPLING LOCATION
● MW-15	MONITORING WELL LOCATION
----------	PROPERTY LINE - OTHER
900	TOPOGRAPHIC CONTOUR

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES WERE INCLUDED AS PART OF THE BASE MAP.

0 100 200 300 400
SCALE IN FEET

PROJECT MGR.	D.G. MADSON
PREPARED BY:	J. E. BEDFIELD
DRAWN BY:	J. E. BEDFIELD
CHECKED BY:	D.G. MADSON
APPROVED BY:	
APPROVED BY:	D. G. MADSON
APPROVED BY:	
DATE:	DECEMBER 2004
JOB NO.	7041

RMT
125 Bartlett Boulevard
P.O. Box 16720
Greenville, SC 29606
864-28-0020

LOCATION OF DATA POINTS

GIRMES SITE, formerly BKF SGA
ASHEVILLE, NORTH CAROLINA

SCALE: AS NOTED

FIGURE NO. 1

Table 2
Analytical Results for Groundwater and Surface Water Samples

STATION[1]	SAMPLEDATE	TCE	1,2-DCE, TOTAL	VINYL CHLORIDE	PCE
NC 2L Standard		**0.0028**	**0.07**	**0.000015**	**0.0007**
MW-01	04/06/05	<0.001	<0.001	<0.001	NA
MW-02	04/06/05	0.0031 j	<0.001	<0.001	NA
MW-04	04/05/05	0.28 j	0.18	0.0059	NA
MW-05	04/05/05	5.3 j	0.27	<0.05	NA
MW-06	04/06/05	<0.001	<0.001	<0.001	NA
MW-07	04/06/05	<0.001	<0.001	<0.001	NA
MW-08	04/06/05	<0.001	<0.001	<0.001	NA
MW-09	04/06/05	0.25 j	0.017	<0.001	NA
MW-10	04/06/05	<0.001	0.01	<0.001	NA
MW-11	04/06/05	0.0015 j	<0.001	<0.001	NA
MW-12	04/07/05	<0.001	<0.001	<0.001	NA
MW-13	04/07/05	<0.001	<0.001	0.0043	NA
MW-15	04/05/05	<0.001	<0.001	<0.001	NA
MW-15A	04/05/05	<0.001	<0.001	<0.001	NA
MW-16	04/07/05	<0.001	<0.001	<0.001	NA
MW-16A	04/07/05	<0.001	<0.001	<0.001	NA
MW-17	04/07/05	<0.001	<0.001	<0.001	NA
MW-18	04/05/05	0.0023 j	<0.001	<0.001	<0.001
MW-19	04/05/05	<0.001	<0.001	<0.001	<0.001
MW-20	04/07/05	0.0068 j	0.0058	<0.001	NA
MW-21	04/05/05	0.0093 j	0.0019	<0.001	<0.001
MW-22	04/05/05	<0.001	<0.001	<0.001	NA
MW-23	04/06/05	0.0038 j	<0.001	<0.001	0.0068
MW-23 (DU-05201)	04/06/05	0.0019 j	<0.001	<0.001	0.005
MW-24	04/05/05	0.0053 j	<0.001	<0.001	<0.001
MW-26R	04/06/05	0.0056 j	0.044	0.023	<0.001
MW-27	04/05/05	<0.001	<0.001	<0.001	NA
MW-28	04/07/05	<0.001	<0.001	<0.001	<0.001
MW-28A	04/07/05	0.011 j	0.0034	<0.001	0.022
RW-01	04/07/05	0.72	0.016	<0.01	<0.01
RW-04	04/07/05	0.24	0.0054	<0.001	<0.001
RW-04 (DU-05202)	04/07/05	0.27	0.006	<0.001	<0.001
SW-01	04/06/05	<0.001	<0.001	<0.001	NA
SW-02	04/06/05	<0.001	<0.001	<0.001	NA
SW-03	04/06/05	<0.001	<0.001	<0.001	NA
SW-04	04/06/05	<0.001	<0.001	<0.001	NA

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

j - Concentration considered an estimate based on data validation.

< - Concentration less than the Quantitation Limit.

NA - Not analyzed.

Shading indicates sample exceeds NC 2L Standard.

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	NOV-93	APR-94	AUG-94	SEP-94	JUN-95	JAN/FEB-96	JUN-96	JAN-97	JUL-97
MW-1	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-2	0.11	NA	NA	NA	0.058 D	0.088	0.037	0.052	0.035
MW-4	1.5	NA	NA	NA	0.95 D	0.74	0.71	0.64	0.45 D
MW-5	6.4	NA	NA	NA	5.8 D	5.2	5.6	7.3	7.1 D
MW-6	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-7	0.014	NA	NA	NA	ND	ND	0.0011	0.0064	0.015
MW-8	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-9	3.0	NA	NA	NA	1.8 D	2.7	1.9	2.2	1.9
MW-10	0.22	NA	NA	NA	0.042 E	ND	0.038(0.034)*	0.025	0.029
MW-11	ND	NA	NA	NA	0.0016	ND	0.0044	0.0022	0.0028
MW-12	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-13	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-14	0.52	NA	NA	NA	0.080 D	0.08	0.2	0.065	0.038
MW-15	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-15A	ND	NA	NA	NA	0.0026	ND	0.0022	ND	0.0089
MW-16	ND	NA	NA	NA	0.0012	ND	ND	ND	ND(ND)*
MW-16A	ND	NA	NA	NA	ND	ND	ND	ND(ND)*	ND
MW-17	0.0075(0.0076)*	NA	NA	NA	0.0039	ND	ND(ND)*	0.0006 Q	ND
MW-18		0.0033	0.0017	NA	ND	0.001	ND	0.0014/0.0013	0.0011
MW-19		0.0037	0.18	0.04	0.11 D	0.028	0.061	0.56	0.071
MW-20		ND	NA	NA	ND	ND	ND	ND	0.0032
MW-21		0.49	0.49	NA	0.35 D	0.32	0.42	0.29	0.35
MW-22		ND	NA	NA	ND	ND	ND	ND	ND
MW-23			3.5	5.7	11.0 D	14.0	13.0	12.0	8.7 D(8.3 D)*
MW-24			2.2	0.2	0.22 D	0.23	0.21	0.22	0.19 D
MW-26R								0.0005 Q	0.0013
MW-27			ND	NA	ND	ND	ND	ND	ND
MW-28					ND	ND	ND	ND	0.0015
MW-28A					0.054 D	0.14	0.076	0.072	0.083
RW-1					9.9/0.91**	0.26	0.77		1.0
RW-3									0.94
RW-4									0.4

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	JAN-98	JUL-98	OCT-98	JAN-99	APR-99	JUL-99	OCT-99	JAN-00	APR-00
MW-1	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-2	0.038	0.016	0.031	0.047	0.037	0.031	0.042	0.051	0.042
MW-4	0.52	0.27	0.39 D	0.56	0.45	0.3	0.36	0.38	0.29 (0.23)*
MW-5	7.2	8.0	8.4 D	9.2 (9.40)*	13.0 D	12.0 D	14 D	16	15 D
MW-6	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-7	0.017	NA	0.014	NA	0.022	NA	0.026 (0.024)	NA	0.0037
MW-8	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-9	1.4	0.82	0.53	0.49	0.88	0.73	0.58 D	0.36	0.65
MW-10	0.031	NA	0.025	NA	0.012	NA	0.018	NA	0.0042
MW-11	0.0018	NA	0.0023	NA	0.0031	NA	0.0035	NA	0.0033
MW-12	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-13	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-14	0.035	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-15	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-15A	0.0019	NA	ND (ND)*	NA	0.00085 J	NA	0.00054 J	NA	ND
MW-16	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-16A	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-17	ND	NA	ND	NA	ND	NA	0.00083 J	NA	ND
MW-18	ND	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-19	0.019	0.024	0.039	0.046	0.028	0.04	0.076	0.084 (0.076)*	0.0075
MW-20	0.0034	NA	0.014 (0.014)*	NA	0.015	NA	0.0094 (0.0086)	NA	0.02 (0.017)*
MW-21	0.31	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-22	ND	NA	ND	NA	DRY	NA	DRY	NA	NA
MW-23	10.0	1.6	0.33	0.2	0.1	0.086(0.087)*	0.084	0.046	0.051
MW-24	0.22	0.099	0.066	0.047	0.051	0.044(0.045)*	0.025	0.028	0.028
MW-26R	0.003	0.0017	ND	0.00076 J	0.0015	0.0013	0.00083 J	0.00062 J	0.0011
MW-27	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28A	0.067	0.036	0.031	0.03	0.023	0.023	0.017	0.016	0.013
RW-1		1.9 D	1.7	1.1	0.6	0.7	0.49 D	0.74	0.69
RW-3		0.63	0.84 D	0.7	0.59	0.71	0.6 D	0.71	0.62
RW-4		0.2	0.17	0.13	0.13	0.14	0.089	0.12 (0.12)*	0.17

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	JUL-00	OCT-00	APR-01	OCT-01	APR-02	OCT-02	APR-03	OCT-03	MAR-04
MW-1	NA	ND	ND	ND	ND	ND	DRY	ND	ND
MW-2	0.029	0.035	NA	0.024	0.031	0.026 k	0.014	0.012	0.0028
MW-4	0.26	0.45	0.32	0.46	0.33	0.41 k (0.42k)	0.34	0.28	0.38
MW-5	16	17 D	13	16	11 D	14 k	12	6.6	7
MW-6	NA	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	NA	0.0027	0.0009J	ND	ND	ND	ND	ND	ND
MW-8	NA	ND	0.0011	0.0011	0.0014	0.0013	0.00096J	ND	ND
MW-9	0.83	1	0.34	0.65	0.41	0.96 k	0.39	0.31	0.38
MW-10	NA	0.016	0.0038	0.0041	0.0011	0.002	0.001	0.0029	0.00079 J
MW-11	NA	0.003	0.0023	0.0036	0.0029	0.0031	0.004	0.0027	0.0025
MW-12	NA	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	0.00053 J	ND	ND	ND	0.074	ND
MW-14	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	NA	ND	ND	ND	ND	ND	ND	ND	ND
MW-15A	NA	ND	0.0015	ND	ND	ND	ND	ND	ND
MW-16	NA	ND	ND	ND	ND	ND	ND	ND	ND
MW-16A	NA	ND	ND	0.00052 J	ND	ND (0.00072Jj)	0.0006J	0.00039 J	ND
MW-17	NA	0.0011	0.00057J (0.00054J)	0.0033	0.0044	0.01	ND	ND	ND
MW-18	NA	NA	NA	NA	NA	NA	0.0055	0.0078	0.0067
MW-19	0.036	0.092	0.016	0.11	0.064	0.18 k	0.0038	0.044	0.02
MW-20	NA	0.018	0.011	0.012	0.012	0.0091	0.012	0.007	0.0063
MW-21	NA	NA	NA	NA	NA	NA	0.012	0.0014	0.0085
MW-22	NA	NA	NA	NA	NA	NA	NA	ND	ND
MW-23	0.014	0.017	0.041	0.0099	0.027	0.028 k	0.0082	0.004	0.0022
MW-24	0.017	0.013 (0.014)	0.012	0.0066	0.0047	0.0062	0.014	0.011	0.0078
MW-26R	ND	ND	0.0025	0.0096	ND	0.00076 J	0.00061J	0.00041 J	0.0014
MW-27	NA	ND	ND	ND	ND	ND	ND	ND	ND
MW-28	NA	ND	ND	ND	ND (ND)	ND	ND	0.00024 J	ND
MW-28A	0.013	0.01	0.0085	0.0059	0.0058	0.0065	0.0055	ND	0.0079
RW-1	0.13	1.3	0.6	0.54	0.16	0.51 k	0.2	1.1 D	0.44
RW-3	0.56	0.61	0.57	0.63	NA	NA	NA	NA	NA
RW-4	0.39 D (0.39 D)	0.13	0.19 (0.16)	0.077	0.034 (0.034)	0.066 Nk	0.05	0.18	0.2

Table 3

Historical Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE	
	OCT-04	APR-05
MW-1	ND	ND
MW-2	0.0031	0.0031 j
MW-4	0.28	0.28 j
MW-5	5.9	5.3 j
MW-6	ND	ND
MW-7	0.0022	ND
MW-8	ND	ND
MW-9	0.19	0.25 j
MW-10	ND	ND
MW-11	0.0017	0.0015 j
MW-12	ND	ND
MW-13	ND	ND
MW-14	NA	NA
MW-15	ND	ND
MW-15A	0.0011	ND
MW-16	ND	ND
MW-16A	ND	ND
MW-17	ND	ND
MW-18	NA	0.0023 j
MW-19	0.0085	ND
MW-20	0.008	0.0068 j
MW-21	NA	0.0093 j
MW-22	ND	ND
MW-23	0.0021	0.0038 j
MW-24	0.0042	0.0053 j
MW-26R	ND	0.0056 j
MW-27	ND	ND
MW-28	ND	ND
MW-28A	0.01	0.011 j
RW-1	1.1	0.72
RW-3	NA	NA
RW-4	0.2	0.24

Table 3
Historical Trichloroethene Concentrations Detected in Groundwater

Qualifiers

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

D - Analyte value from diluted analysis.

E - Analyte concentration exceeds calibration range.

J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.

j - Concentration considered an estimate based on data validation.

k - Analyte present; reported value may be biased high.

Q - The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ).
The results are qualified due to the uncertainty of analyte concentrations within this range.

NA - Not analyzed.

ND - Not detected.

* - Analytical results for duplicate samples shown in parentheses.

** - Analytical results for samples collected at the beginning/end of pumping tests.

< - Concentration less than the Quantitation Limit.

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	NOV-93	APR-94	AUG-94	SEP-94	JUN-95	JAN/FEB-96	JUN-96	JAN-97	JUL-97
MW-1	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-2	0.025	NA	NA	NA	0.012	ND	0.0096	ND	0.004
MW-4	0.74	NA	NA	NA	0.67 D	0.36	0.71	ND	0.51 D
MW-5	ND	NA	NA	NA	0.085 E	ND	0.27	ND	0.2
MW-6	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-7	0.038	NA	NA	NA	ND	ND	ND	ND	0.001 J
MW-8	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-9	ND	NA	NA	NA	0.045 E	ND	ND	ND	0.043
MW-10	1.2	NA	NA	NA	0.60 D	0.38	0.45(0.39)*	ND	0.47
MW-11	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-12	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-13	ND	NA	NA	NA	0.003	ND	0.0044	0.022	0.002
MW-14	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-15	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-15A	ND	NA	NA	NA	ND	ND	ND	ND	ND
MW-16	ND	NA	NA	NA	ND	ND	ND	ND	ND(ND)*
MW-16A	ND	NA	NA	NA	ND	ND	ND	ND(ND)*	ND
MW-17	ND(ND)*	NA	NA	NA	ND	ND	ND(ND)*	ND	ND
MW-18		0.0086	0.0036	NA	0.0026	ND	ND	0.0011 Q(0.0013 Q)*	0.0012 J
MW-19		ND	ND	0.019	0.0085	ND	0.004	ND	0.0038
MW-20		ND	NA	NA	0.0029	ND	0.26	ND	0.0043
MW-21		0.13	0.14	NA	0.25 D	0.20	ND	ND	0.13
MW-22		ND	NA	NA	ND	ND	0.68	ND	ND
MW-23			ND	ND	0.38	ND	ND	ND	0.28 D(0.27 D)*
MW-24			ND	ND	0.003	ND	ND	ND	0.0024
MW-26R								0.003 Q	0.0063
MW-27			ND	NA	ND	ND	ND	ND	
MW-28					ND	ND	ND	ND	
MW-28A					0.0073	0.018	0.033	0.011	0.011
RW-1					0.56/0.24**	0.08	0.2	NA	0.013
RW-3									ND
RW-4									0.0085 J

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE								
	JAN-98	JUL-98	OCT-98	JAN-99	APR-99	JUL-99	OCT-99	JAN-00	APR-00
MW-1	ND	NA	<0.002	NA	ND	NA	ND	NA	ND
MW-2	0.0035	0.0022	0.0024	0.003	0.0024	0.002	0.003	0.003	0.0029
MW-4	0.52	0.38	0.39 D	0.76	0.55	0.33	0.41	0.38	0.26 (0.26)*
MW-5	0.15	0.13	0.12	0.15	0.19	0.19 D	0.22	0.26	0.23
MW-6	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-7	ND	NA	0.00086 J	NA	ND	NA	0.0013 J (0.0013 J)*	NA	ND
MW-8	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-9	0.03	0.019	0.012	0.011	ND	0.015	0.016	0.0082	0.012
MW-10	0.47	NA	0.4	NA	0.2	NA	0.3	NA	0.065
MW-11	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-12	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-13	ND	0.0014 J	0.00093 J	ND	DRY	ND	DRY	ND	ND
MW-14	ND	NA	DRY	NA	ND	NA	NA	NA	ND
MW-15	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-15A	ND	NA	ND (ND)*	NA	ND	NA	ND	NA	ND
MW-16	ND	NA	ND	0.002	ND	NA	ND	NA	ND
MW-16A	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-17	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-18	ND	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-19	ND	0.0012 J	0.0015 J	NA	ND	ND	0.0035	0.0037 (0.0031)*	ND
MW-20	0.0054	NA	0.0071 (0.0075)*	NA	0.007	NA	0.0056 (0.0056)*	NA	0.0077 (0.0066)*
MW-21	0.13	NA	DRY	NA	DRY	NA	DRY	NA	NA
MW-22	ND	NA	ND	NA	DRY	NA	DRY	NA	NA
MW-23	0.34	0.11	0.025	0.016	0.017	0.011(0.011)*	0.012	0.0069	0.0078
MW-24	ND	0.0013 J	0.0081J	0.00056 J	ND	ND(ND)*	ND	ND	ND
MW-26R	0.0081	0.016	0.018	0.028	0.067	0.076	0.064	0.058	0.077
MW-27	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28	ND	NA	ND	NA	ND	NA	ND	NA	ND
MW-28A	0.0086	0.0052	0.0067	0.0068	0.0045	0.0039	0.0033	0.0029	0.0023
RW-1		0.05	0.062	0.042	0.024	0.027	0.024	0.024	0.021
RW-3		0.038	0.022	0.045	0.045	0.051	0.061	0.057	0.042
RW-4		0.0053	0.0046	0.0031	0.0036	0.0034	0.0025	0.0032 (0.0033)*	0.0041

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE							
	OCT-00	APR-01	OCT-01	APR-02	OCT-02	APR-03	OCT-03	MAR-04
MW-1	ND	ND	ND	ND	ND	DRY	ND	ND
MW-2	0.0022	NA	0.0011 J	0.0017 J	0.0014 J	ND	0.0051	ND
MW-4	0.59	0.63	0.71	0.44	0.63 (0.61)	0.33	0.28	0.18
MW-5	0.3	0.3	0.29	0.34	0.46	0.44	0.36	0.36
MW-6	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	ND	ND	ND	ND	ND	ND	ND	ND
MW-8	ND	ND	ND	ND	ND	ND	ND	ND
MW-9	0.022	0.0079	0.014	0.012	0.024	0.011	0.014	0.016
MW-10	0.22	0.094	0.085	0.021	0.029	0.0095	ND	0.011
MW-11	ND	ND	ND	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	ND	ND	ND	0.0032	ND
MW-14	NA	NA	NA	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	ND	ND	ND	ND
MW-15A	ND	ND	ND	ND	ND	ND	ND	ND
MW-16	ND	ND	ND	ND	ND	ND	ND	ND
MW-16A	ND	ND	ND	ND	ND (ND)	ND	ND	ND
MW-17	ND	ND (ND)	ND	0.00084 J	0.0021	ND	ND	ND
MW-18	ND	NA	NA	NA	NA	ND	0.0027	ND
MW-19	0.0036	0.00058J	0.0035	0.0023	0.006	ND	0.0018 J	ND
MW-20	0.0066	0.0053	ND	0.0055	0.0046	0.0049	0.0037	0.0036
MW-21	NA	NA	NA	NA	NA	0.0059	0.017	0.0026
MW-22	NA	NA	NA	NA	NA	NA	ND	ND
MW-23	0.002	0.005	0.0016 J	0.0036	0.0029	ND	ND	ND
MW-24	ND	ND	ND	ND	ND	ND	ND	ND
MW-26R	0.045	0.064	0.16	0.17	0.13	0.075	0.033	0.033
MW-27	ND	ND	ND	ND	ND	ND	ND	ND
MW-28	ND	ND	ND	ND (ND)	ND	ND	ND	ND
MW-28A	0.0019 J	0.0016J	0.0012 J	ND	0.0016 J	0.0015J	ND	0.0026
RW-1	0.034	0.018	0.014	0.015	0.016	0.01	0.027	0.011
RW-3	0.047	0.05	0.047	NA	NA	NA	NA	NA
RW-4	0.0031	0.0048 (0.0044)	0.0015 J	ND (ND)	0.0012 J	0.0022	0.004	0.0037

Table 4

Historical 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE	
	OCT-04	APR-05
MW-1	ND	ND
MW-2	ND	ND
MW-4	0.2	0.18
MW-5	0.34	0.27
MW-6	ND	ND
MW-7	ND	ND
MW-8	ND	ND
MW-9	0.0097	0.017
MW-10	0.0085	0.01
MW-11	ND	ND
MW-12	ND	ND
MW-13	ND	ND
MW-14	NA	NA
MW-15	ND	ND
MW-15A	ND	ND
MW-16	ND	ND
MW-16A	ND	ND
MW-17	ND	ND
MW-18	NA	ND
MW-19	ND	ND
MW-20	0.0041	0.0058
MW-21	NA	0.0019
MW-22	ND	ND
MW-23	ND	ND
MW-24	ND	ND
MW-26R	0.014	0.044
MW-27	ND	ND
MW-28	ND	ND
MW-28A	0.0033	0.0034
RW-1	0.029	0.016
RW-3	NA	NA
RW-4	0.0035	0.0054

Table 4
Historical 1,2-Dichloroethene Concentrations Detected in Groundwater

Qualifiers

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

D - Analyte value from diluted analysis.

E - Analyte concentration exceeds calibration range.

J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.

Q - The analyte has been detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ).
The results are qualified due to the uncertainty of analyte concentrations within this range.

NA - Not analyzed.

ND - Not detected.

* - Analytical results for duplicate samples shown in parentheses.

** - Analytical results for samples collected at the beginning/end of pumping tests.

< - Concentration less than the Quantitation Limit.

Section 4
Recovery System Performance

The groundwater recovery system is designed to use three recovery wells to capture affected groundwater. Water from these wells is pumped to an air stripper, where VOCs are removed, and treated water is discharged into Gashes Creek per National Pollutant Discharge Elimination System (NPDES) Permit No. NC0086088. During the April 2002 sampling event it was discovered that the pump in well RW-3 was not operating. Attempts to restart the pump were unsuccessful. Well RW-3 has a yield of about ½ gallon per minute (gpm). Such a low flow in combination with the amount of vertical head between the pump and the land surface results in stress on the pump and its electrical system. This, in turn, results in increased maintenance. The remaining two wells (RW-1 and RW-4) recover approximately 15 and 7 gpm, respectively, and account for nearly all the yield from the groundwater recovery system. Since recovery well RW-3 contributes very little to the overall yield of the groundwater recovery system, it has remained offline since April 2002 and groundwater recovery continues to include only wells RW-1 and RW-4.

The groundwater recovery system is now operating on a pulse pumping cycle of "on" for 6 weeks, followed by "off " for 6 weeks. This pulsed pumping cycle operational mode was initiated on November 11, 2002. The dates that the system was turned on and off during the past six months are summarized as follows:

Summary of Pulsed Pumping Cycles

RECOVERY SYSTEM SHUT DOWN	RECOVERY SYSTEM START UP
November 11, 2002	January 3, 2003
February 14, 2003	April 2, 2003
May 13, 2003	July 1, 2003
August 12, 2003	October 7, 2003
November 13, 2003	January 5, 2004
February 17, 2004	April 1, 2004
May 18, 2004	July 6, 2004
August 16, 2004	October 5, 2004
November 18, 2004	January 3, 2005
February 16, 2005	April 5, 2005

Influent and effluent to the stripper is sampled on a monthly basis during "on" pumping cycles. Effluent flow is recorded continuously. The analytical results for the influent and effluent are used along with the flow data to estimate the amount of trichloroethene removed each month. Monthly volumes of treated groundwater and the estimated amount of TCE removed since system startup in March 1998 through April 2005 are summarized in Table 5. The estimated amount of groundwater that was recovered and treated during November 2004 through April 2005 is 3.44 million gallons. It is estimated that over 37 pounds of TCE were removed during November 2004 through April 2005. As shown on Table 5, the amount of water treated and TCE removed varied from month to month during this time period. This variance is due to the number of days that the system was in operation each month.

Table 6 summarizes the amount of water treated and the estimated amount of TCE removed each year since operation of the recovery system began in March 1998. For the years 1998 through 2002, the estimated amount of TCE removed declined from 167.7 pounds per year to 31.47 pounds per year. After pulse pumping of the system began in November 2002, the estimated amount of TCE increased to 38.3 pounds per year in 2003, even further to 55.0 pounds per year in 2004, and to 31.5 pounds per year in 2005 (through April 2005). While pulse pumping of the groundwater recovery system increased the amount of TCE removed, the volume of water removed during both years is significantly less than removed during years of full operation.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending April 30, 2005

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
02/98	0	0	0	Not operational
03/98	28	1.58	N/C	Startup 03/04/98
04/98	30	1.62	39.1	Normal operation
05/98	31	1.64	35.6	Normal operation
06/98	30	1.58	17.1	Normal operation
07/98	31	1.53	17.9	Normal operation. Adjusted pump rate for RW-4
08/98	31	1.42	14.2	RMT coordinating maintenance of pump controllers
09/98	30	1.47	13.5	Normal operation, pump controllers repaired/calibrated
10/98	31	1.40	11.7	Removed pump from RW-3. Pump will be cleaned and repaired, as needed.
11/98	30	1.30	11.9	RW-3 pump replaced
12/98	31	1.28	6.7	Normal operation
01/99	31	1.31	7.5	Auto dialer was reprogrammed. System inspected.
02/99	28	1.33	7.42	Normal operation
03/99	31	1.33	3.27	Normal operation. Calibrated flow meter and updated flow meter software.
04/99	30	1.35	1.90	Normal operation. System inspected during groundwater sampling.
05/99	31	1.46	10.7	Normal operation
06/99	30	1.39	7.06	Normal operation
07/99	31	1.46	7.05	Normal operation
08/99	31	1.42	7.1	Normal operation
09/99	30	1.33	6.6	Normal operation
10/99	31	1.35	4.5	Normal operation. System inspected during groundwater sampling.
11/99	30	1.31	6.1	Normal operation
12/99	31	1.29	6.0	Normal operation

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending April 30, 2005

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
01/00	31	1.19	5.2	Normal operation
02/00	29	1.17	5.8	Normal operation
03/00	31	1.25	6.6	Normal operation
04/00	30	1.08	6.3	Normal operation
05/00	31	0.661	1.05	Flow from RW-4 has declined. Field technician will adjust flow
06/00	30	0.693	1.9	Maintenance issues identified during site visit. Flow remains lower than normal
07/00	31	0.624 (2)	3.02	Pumps functional at a reduced rate. Meters are marginally functional.
08/00	31	0.725	4.6	Replacement equipment purchased, operation and maintenance (O&M) trip scheduled.
09/00	30	1.274	11.7	Repairs made on September 6 and 7. Flow restored to approximately 45,000 gpd.
10/00	31	1.27 (2)	12.7	Normal operation
11/00	30	1.10	17.4	Effluent flow meter calibrated, normal operation
12/00	31	1.03	5.5	Normal operation
1/01	31	1.02	3.9	Normal operation
2/01	28	0.97	2.7	Normal operation
3/01	31	0.85	2.8(2)	Normal operation
4/01	30	1.02	3.2	Flow rates adjusted and yield increased
5/01	31	1.05	5.2	Normal operation
6/01	30	1.11	4.4	Normal operation
7/01	31	1.14	3.8	Normal operation
8/01	31	1.14	3.6	Normal operation
9/01	30	1.06	3.9	Normal operation
10/01	31	1.06(1)	3.9(2)	Normal operation
11/01	30	1.03	3.8	Normal operation
12/01	31	1.08	3.9	Normal operation

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending April 30, 2005

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
01/02	31	1.06	3.0	Normal operation
02/02	28	0.95	2.6	Normal operation
03/02	31	1.07	3.5	Normal operation
04/02	30	1.03(2)	3.5(2)	Well RW-3 not operating
05/02	31	1.09	3.3	The pump in well RW-3 not operating.
06/02	30	1.02	3.3	The pump in well RW-3 not operating.
07/02	31	1.02	3.3	The pump in well RW-3 not operating.
08/02	31	1.1	3.4	The pump in well RW-3 not operating.
09/02	30	1.01	2.4	The pump in well RW-3 not operating.
10/02	31	1.02(2)	2.4(2)	The pump in well RW-3 not operating.
11/02	10	0.33	0.77	10 days of operation this month; system off-line
12/02	0(4)	0	0	System off-line for month of December.
01/03	29	1.12	9.3(2)	System was restarted the first week of January.
02/03	14	0.46	1.9(3)	System shut down February 14, 2003.
03/03	0(4)	0	0	System off-line for month of March.
04/03	30	1.21	1.4	Normal operation
05/03	13	0.50(2)	2(2)	13 days of operation this month; system off-line
06/03	0(4)	0	0	System off-line for month of June.
07/03	31	1.3	11.9	Normal operation
08/03	11	0.41	1.7	11 days of operation this month
09/03	0	0	0	System off-line for month of September.
10/03	26	0.99	7.5	26 days of operation for month of October
11/03	13	0.47	2.6	13 days of operation for month of November
12/03	0	0	0	System off-line for month of December
01/04	27	1.04	7.9	27 days of operation for month of January
02/04	17	0.61	4.6(2)	17 days of operation for month of February
03/04	0	0	0	System off-line for month of March
04/04	30	1.2	7.0	30 days of operation for month of April
05/04	18	0.67	5.1	18 days of operation for month of May
06/04	0	0	0	System off-line for month of June

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 5
Operations Summary for Period Beginning March 4, 1998, and Ending April 30, 2005

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
07/04	26	1.07	8.9	26 days of operation for month of July
08/04	16	0.63	5.2(2)	16 days of operation for month of August
09/04	0	0	0	System off-line for month of September
10/04	27	1.11	10.2	27 days of operation for month of October
11/04	18	0.66	6.1	18 days of operation for month of November
12/04	0	0	0	System off-line for month of December
01/05	29	1.18	13.7	29 days of operation for month of January
02/05	16	0.58	6.8	16 days of operation for month of February
03/05	0	0	0	System off-line for month of March
04/05	26	1.02	11.0	26 days of operation for month of April
	2,132	**81.72**	**525.54**	**Total since system startup**

(1) Not calculated, no influent sample collected.
(2) Estimate based on data collected during system restart. Flow rate and VOC recovery rate will likely decline during operation.
(3) Mass removal was based on TCE concentration of influent sample collected at time of shutdown (after 43 days of operation)
(4) Indicates system was off-line for entire month.

Table 6
Operations Summary by Year

YEAR	WATER TREATED (million gallons)	TCE REMOVED (pounds)
1998	14.82	167.7
1999	16.33	75.2
2000	12.067	81.77
2001	12.53	45.1
2002	10.7	31.47
2003	6.46	38.3
2004	6.99	55.0
2005 (1)	2.78	31.5

(1) January through April 2005

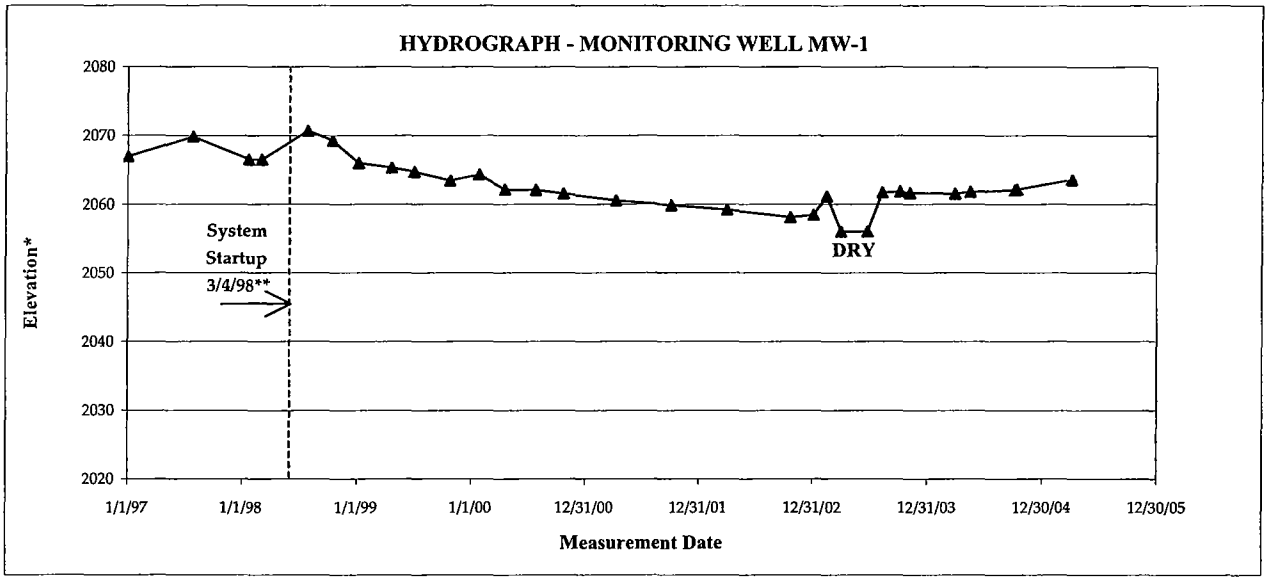
Section 5
Conclusions and Recommendations

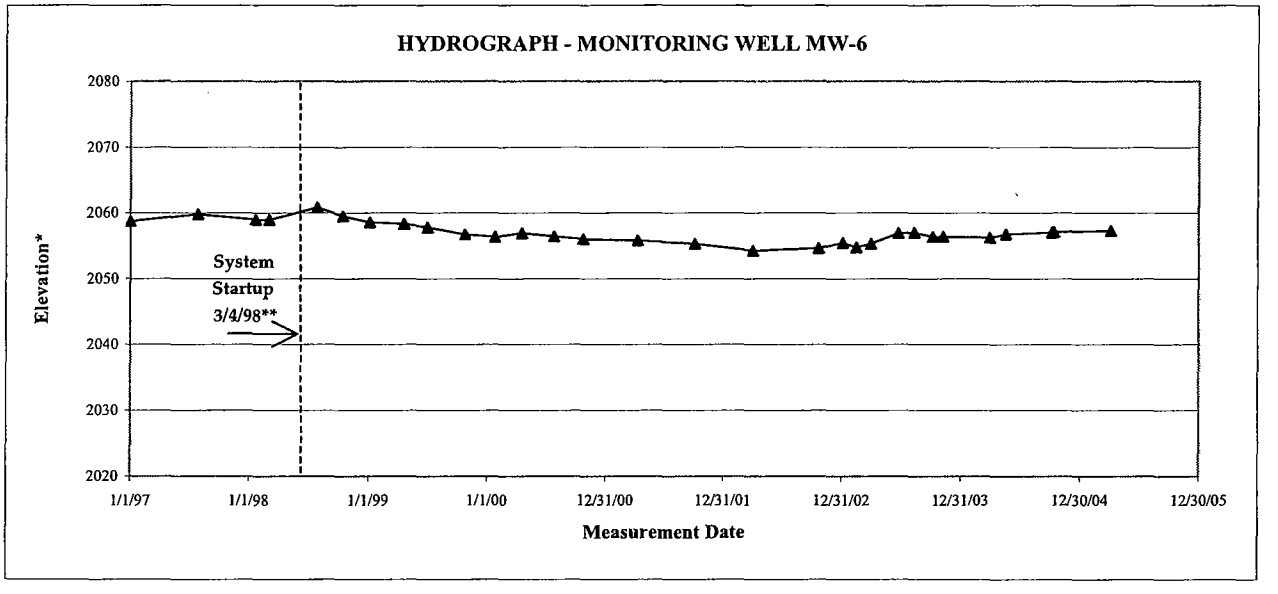
Data gathered during the past semiannual monitoring period indicates that the groundwater recovery system is operating effectively. Pulse pumping of the system appears to have increased the volume of VOCs removed annually while decreasing the volume of groundwater removed. Pulse pumping of the groundwater recovery system continues to save costs associated with operations and maintenance of the system. Recovered groundwater continues to be treated and discharged to Gashes Creek in compliance with the NPDES permit.

Based on these conclusions, RMT offers the following recommendations:

- Continue monitoring groundwater and surface water quality on a semiannual basis.
- Continue operating the groundwater recovery and treatment system on a 6-week on/ 6-week off pulse cycle.

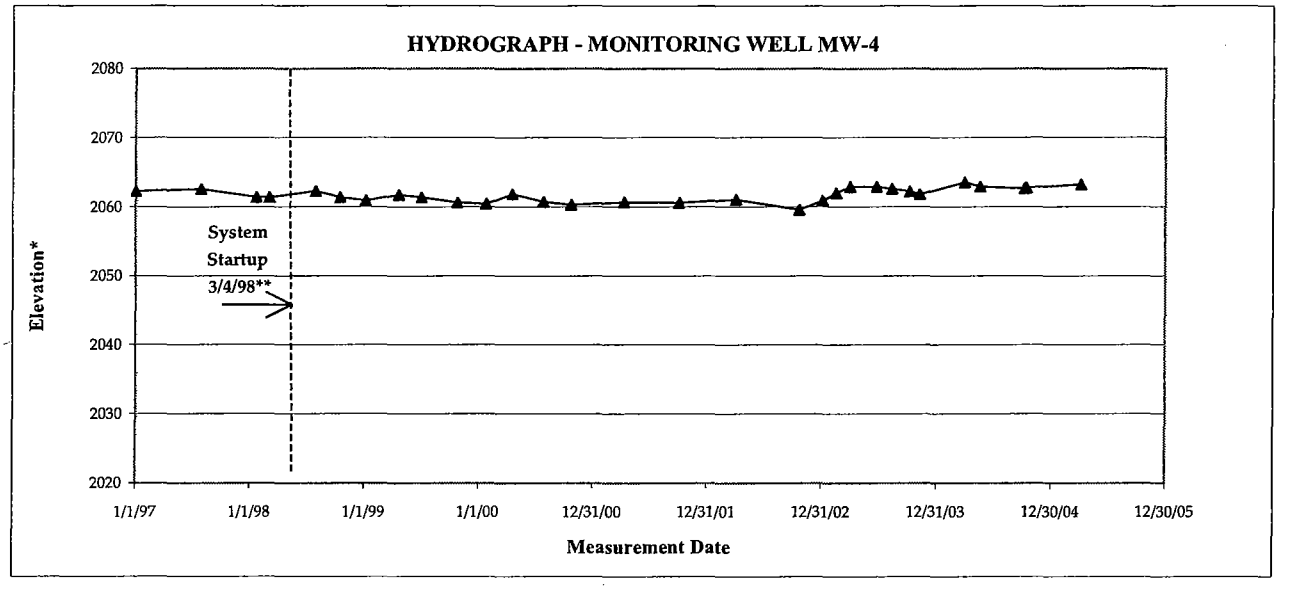
Appendix A
Hydrographs for Bedrock Wells

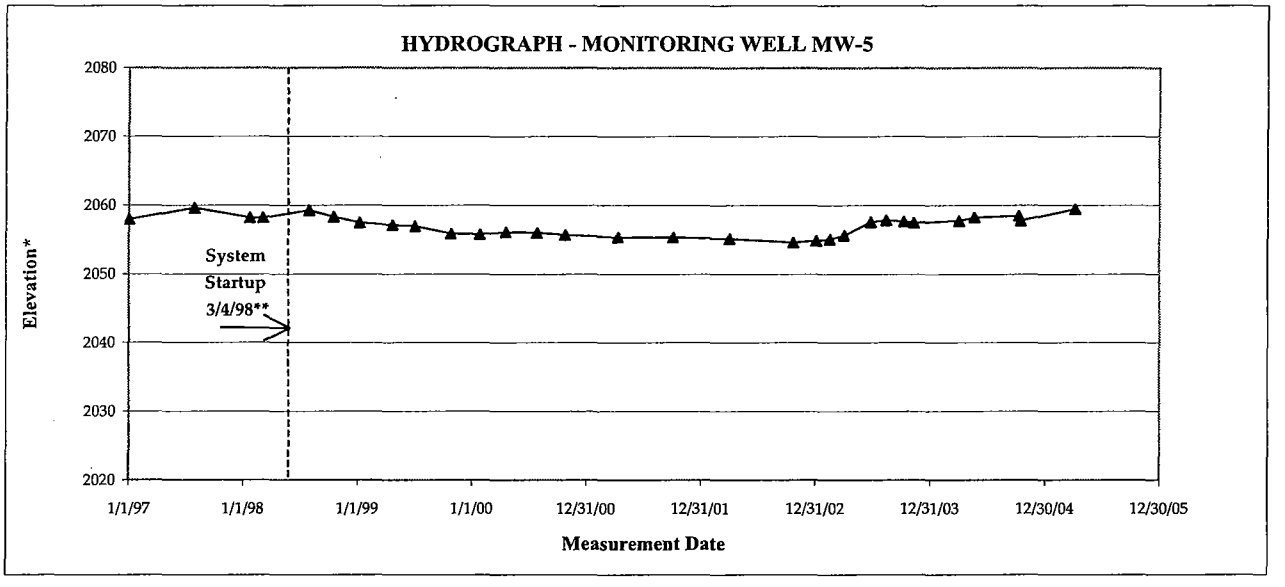




* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up





* Elevation in Feet above Mean Sea Level

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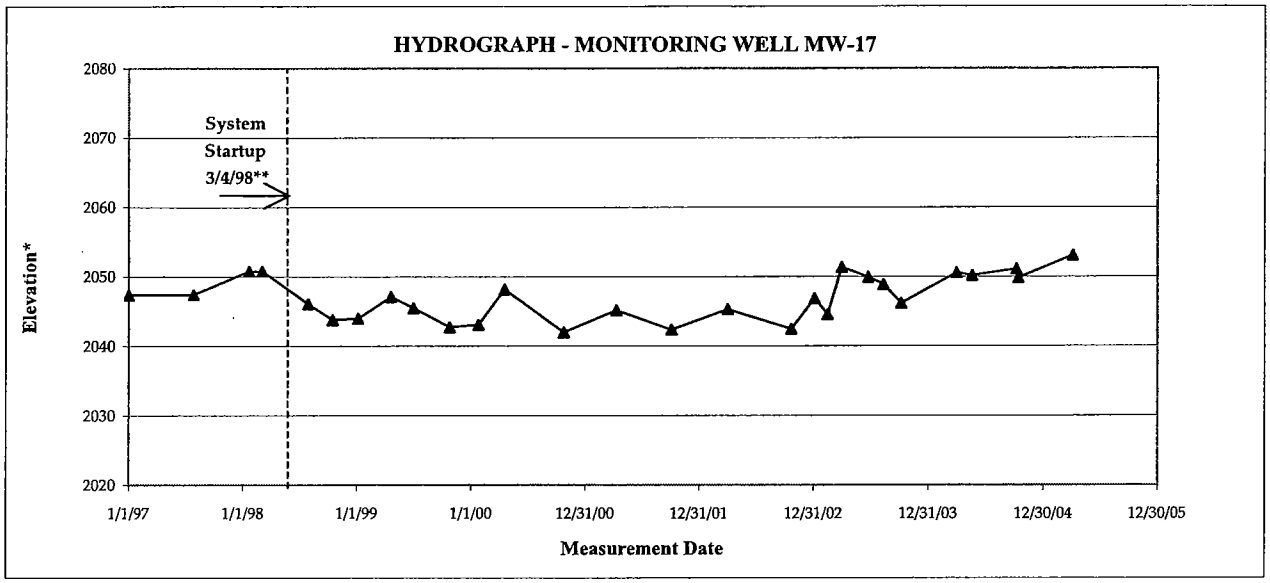

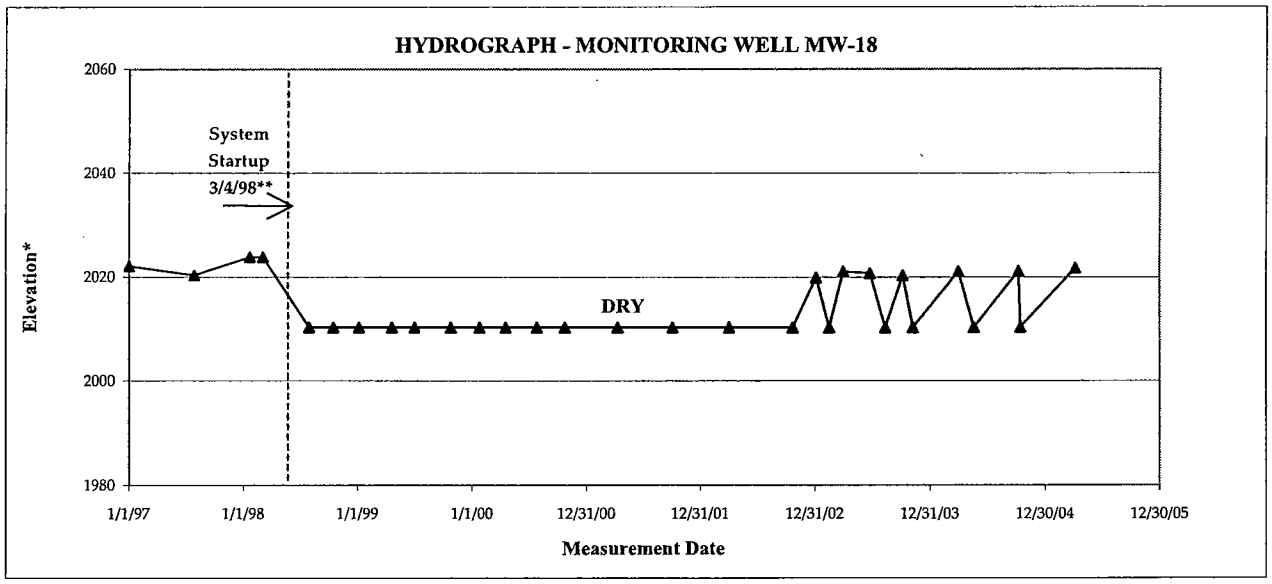

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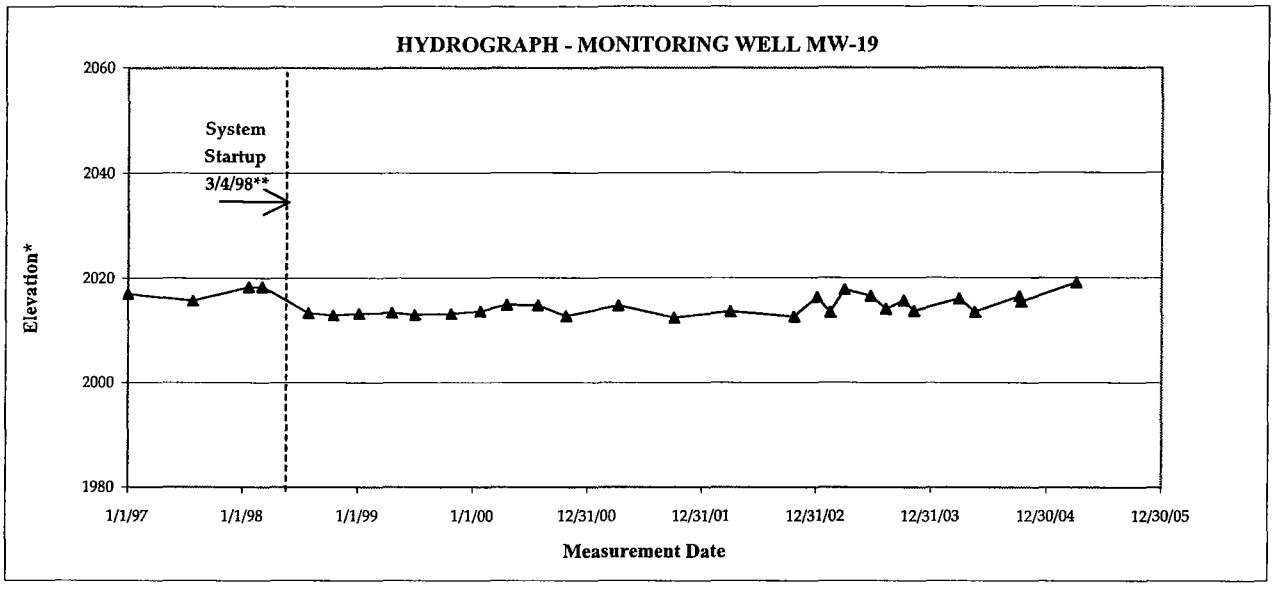

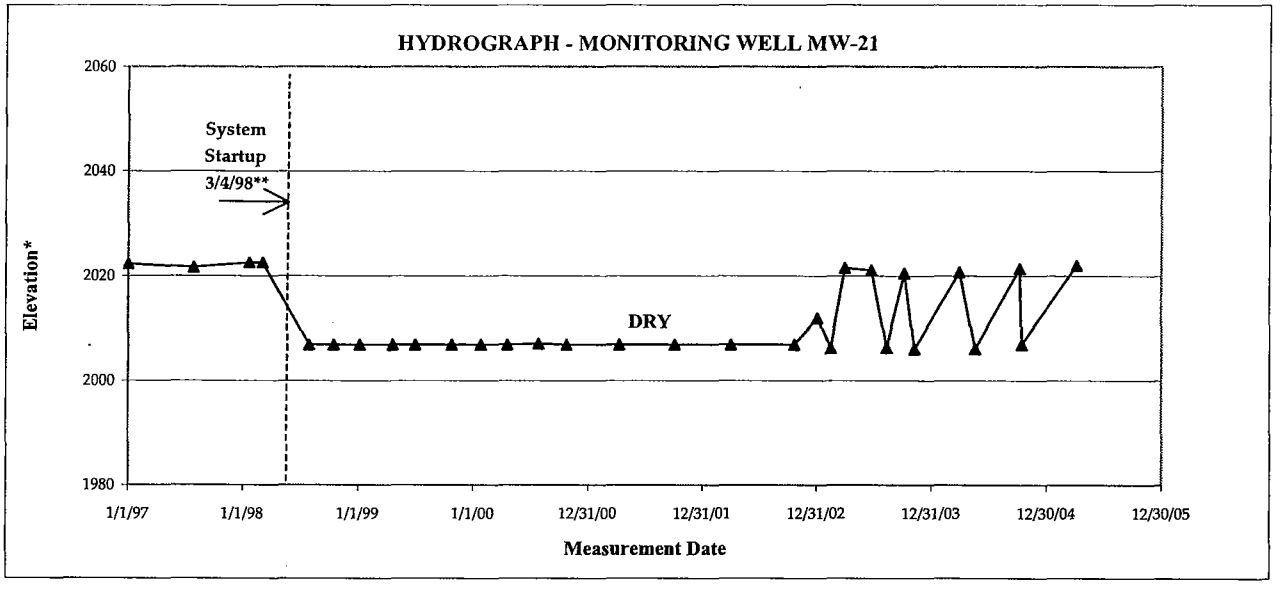

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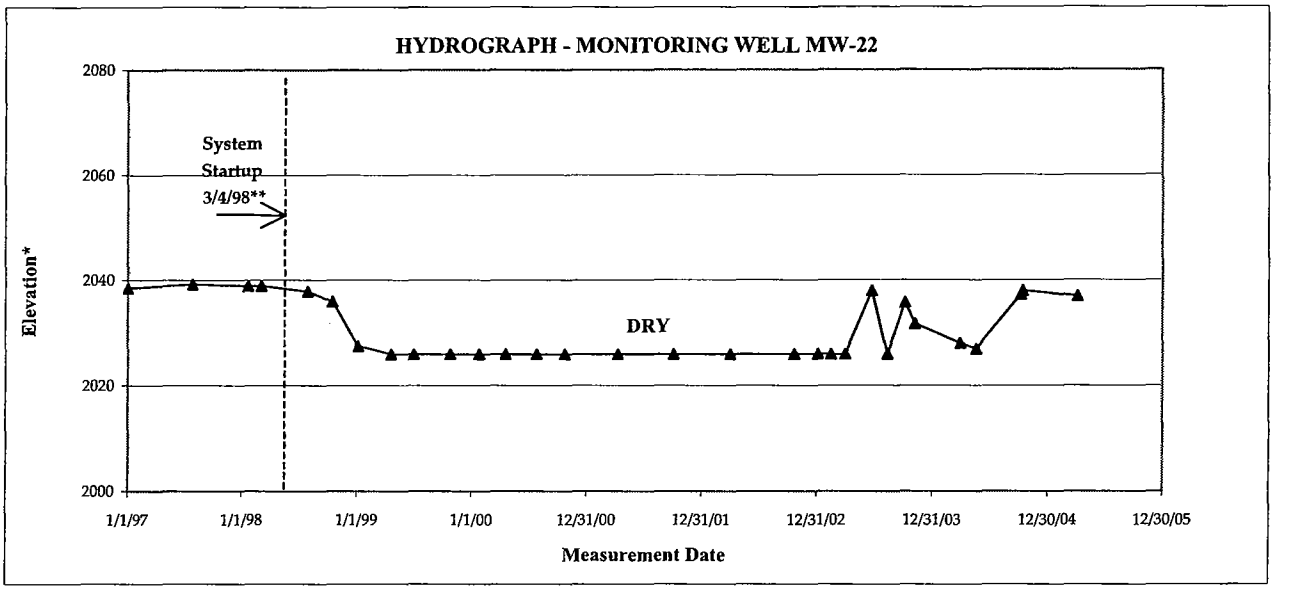

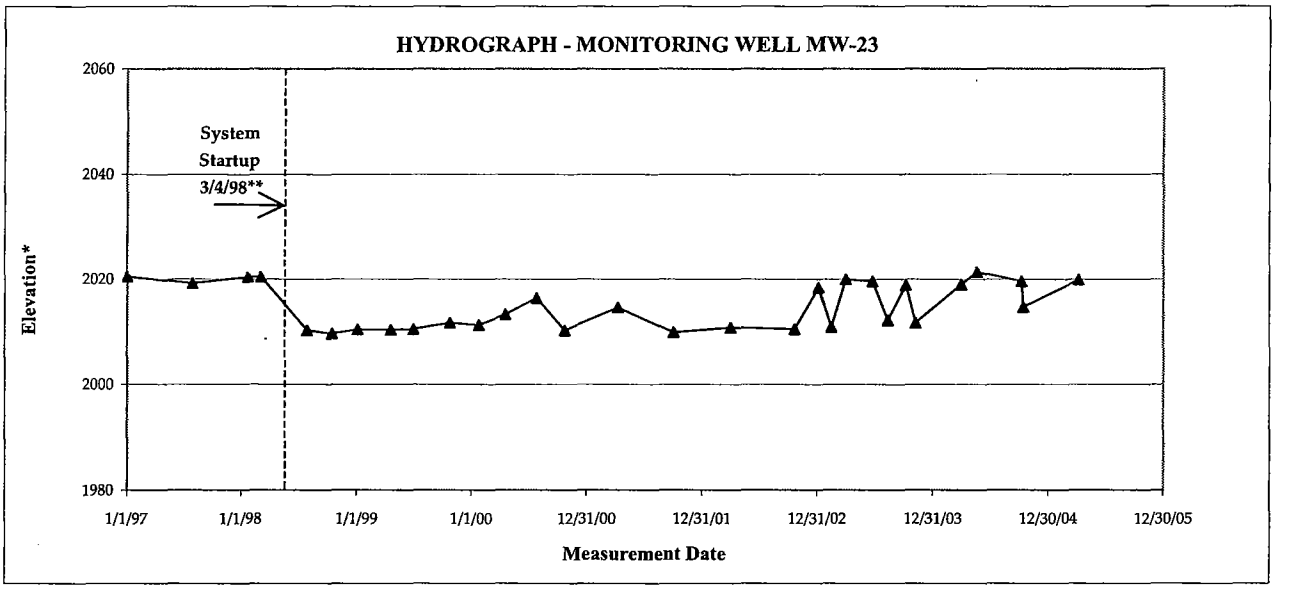

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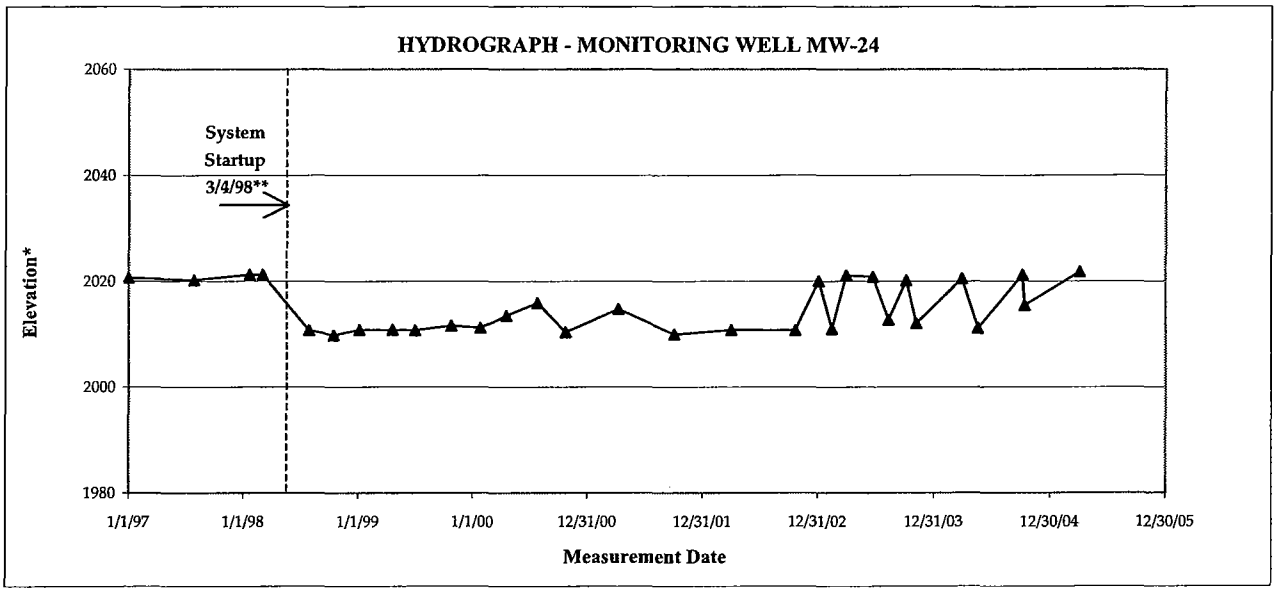
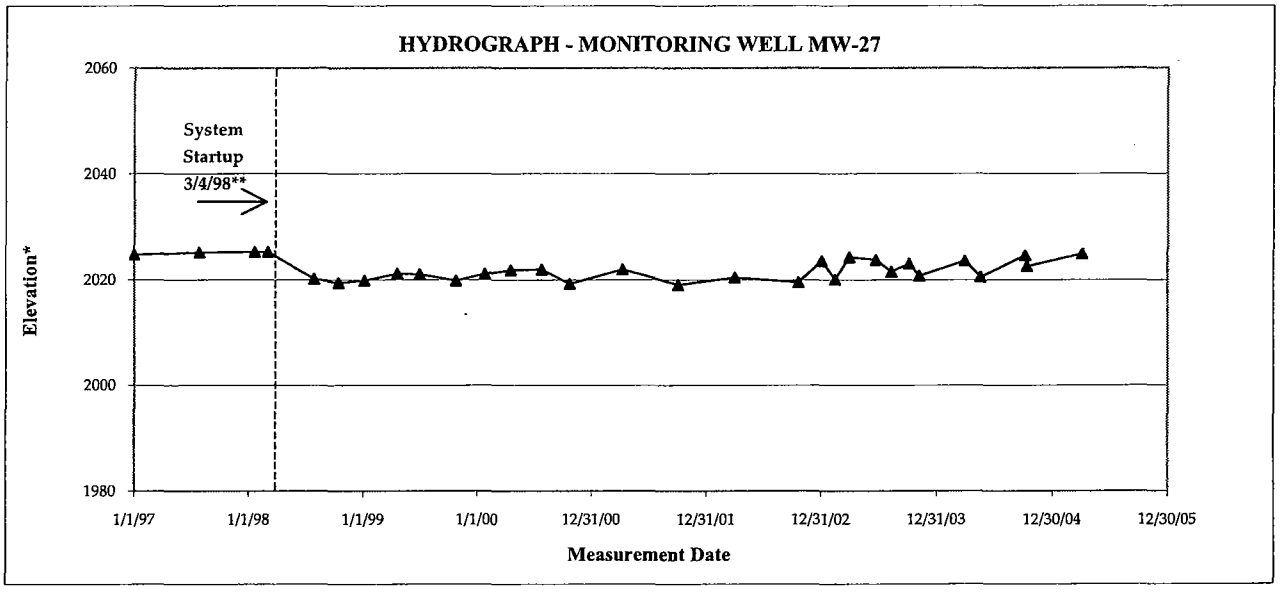
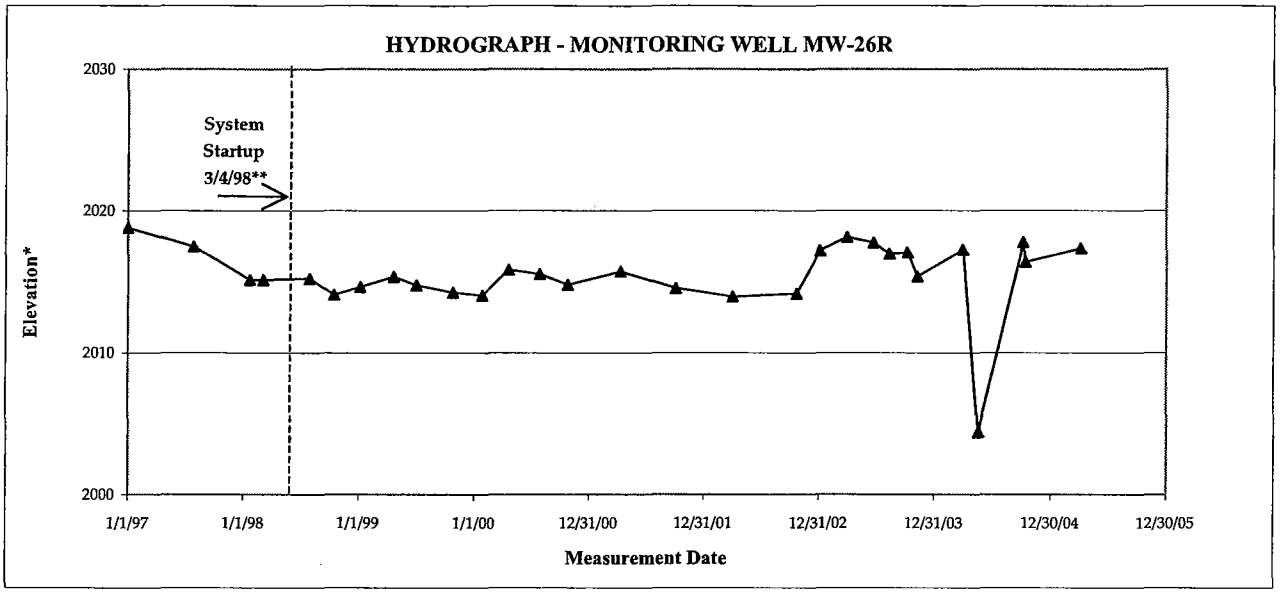




* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up



* Elevation in Feet above Mean Sea Level

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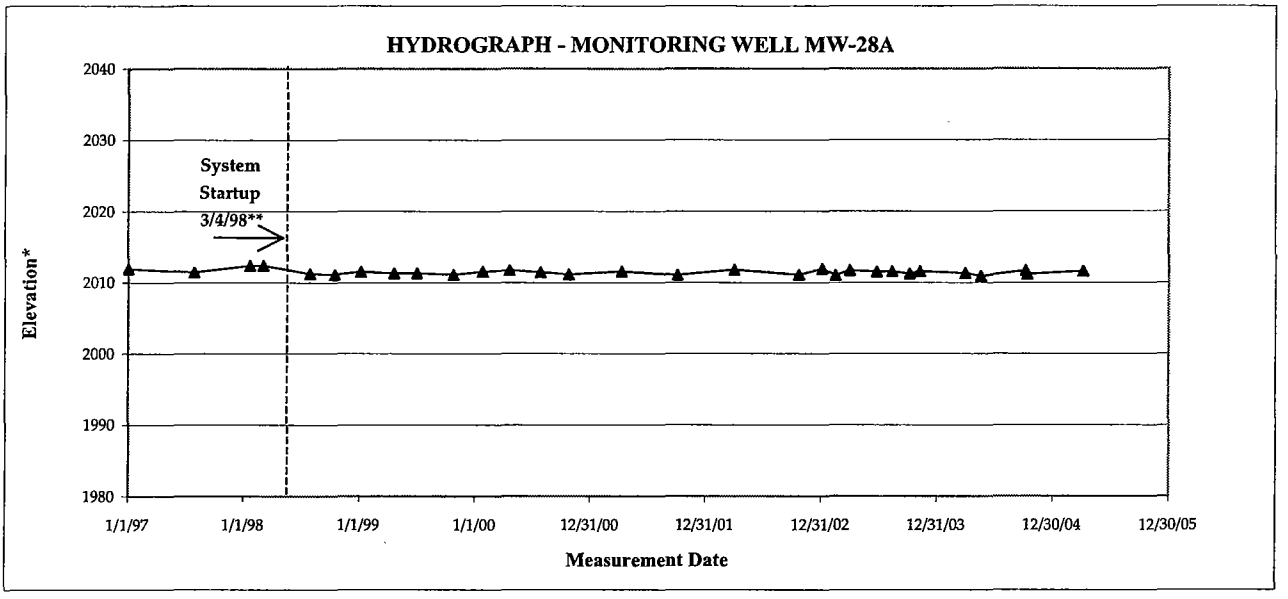

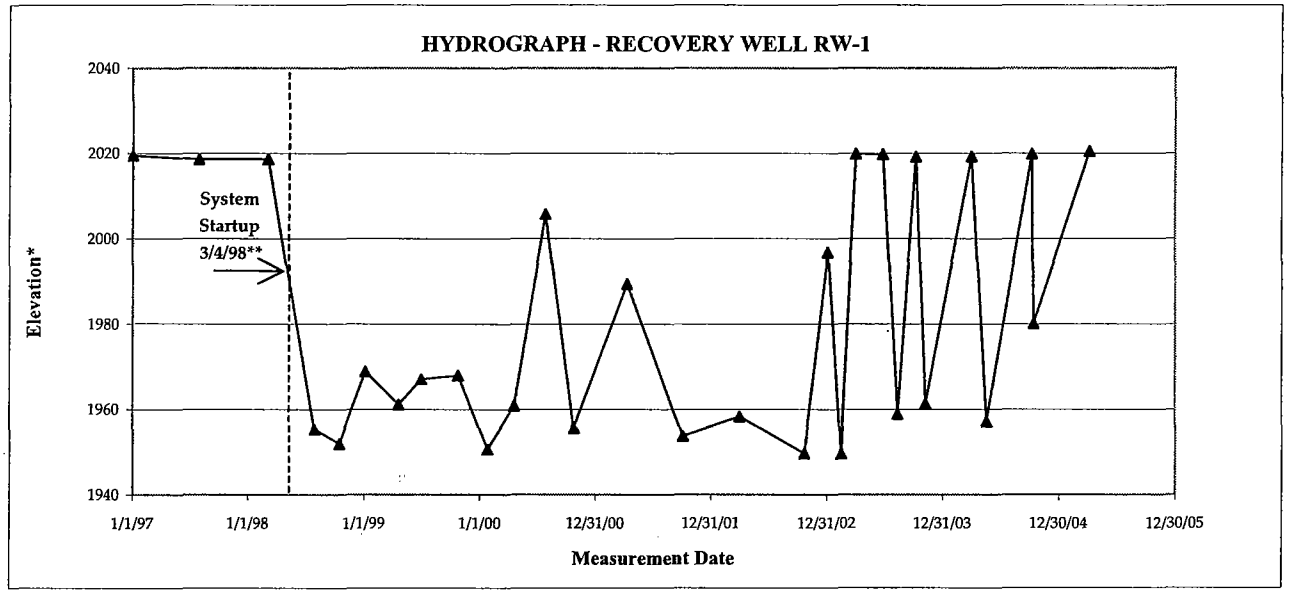

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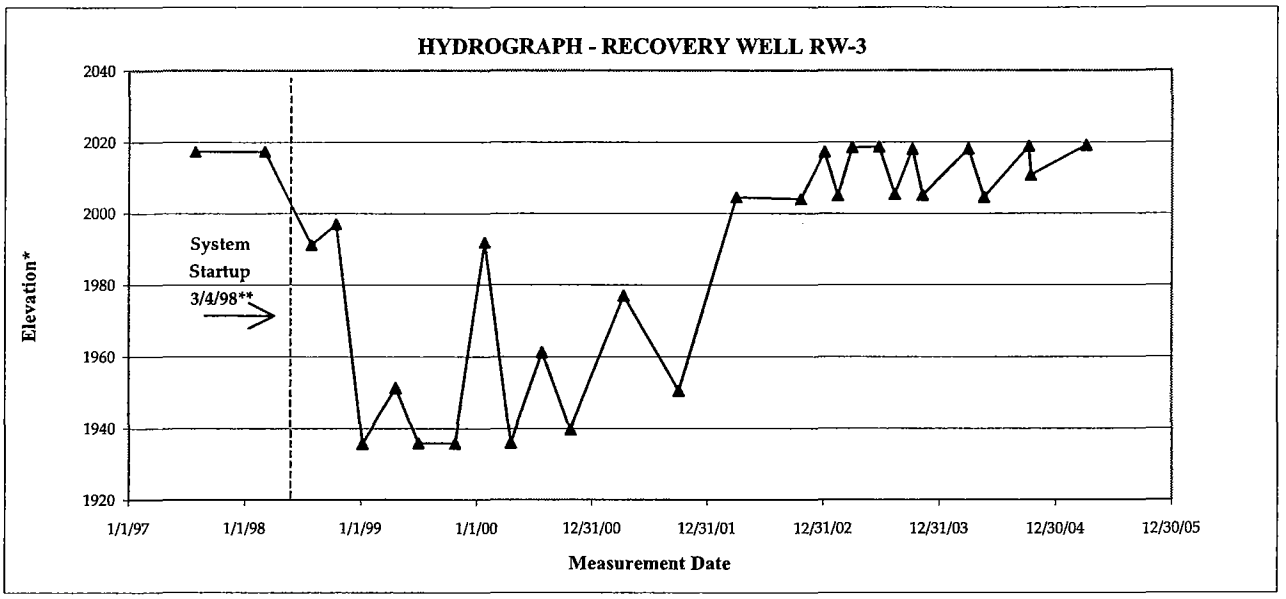

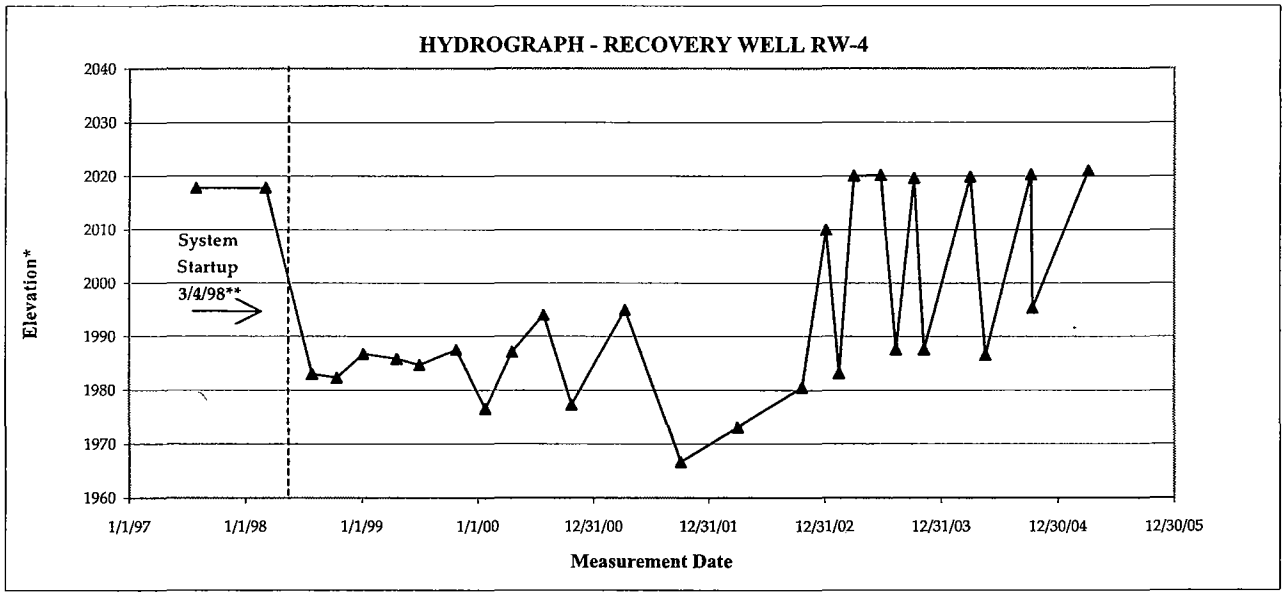

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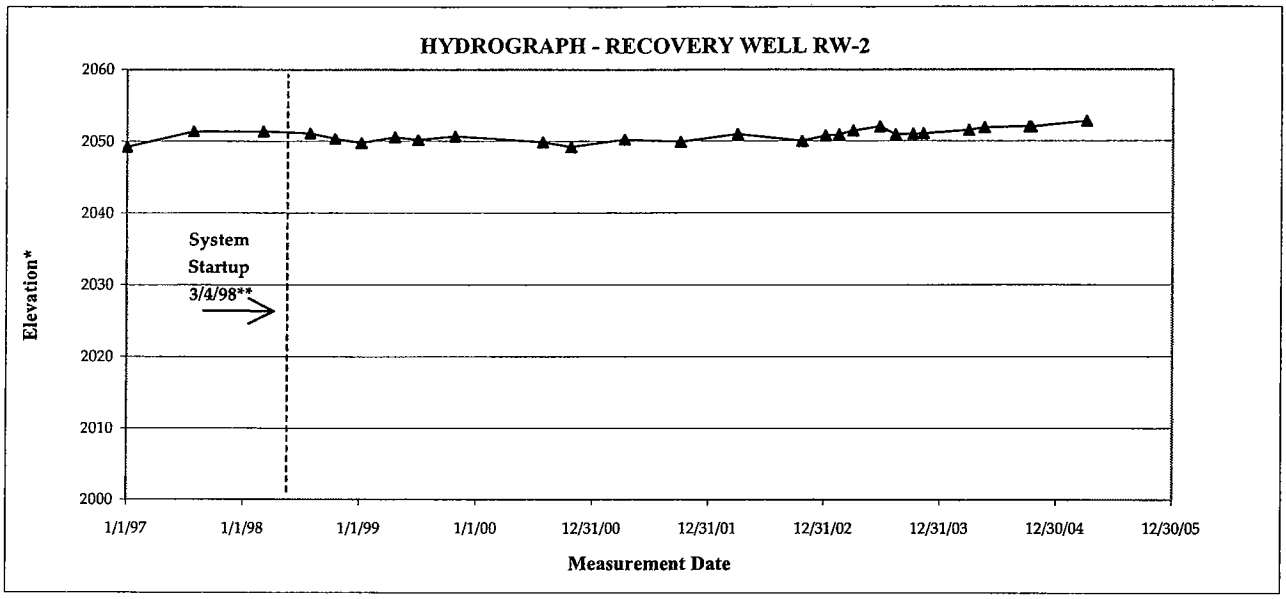

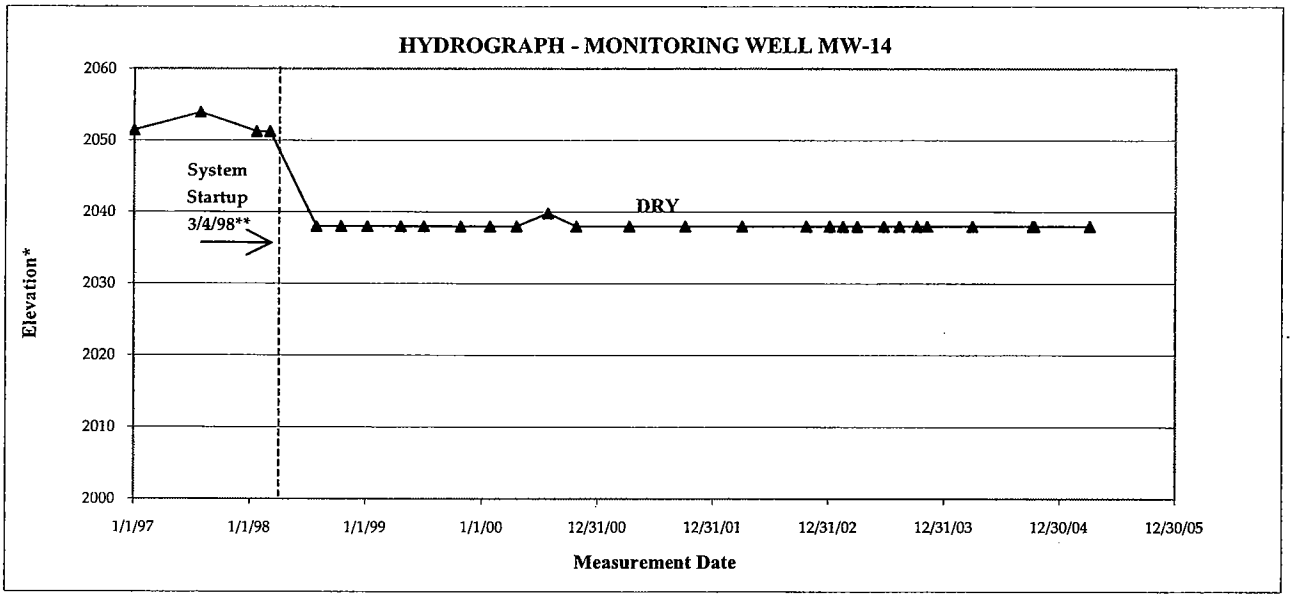

* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

Appendix B
Laboratory Analytical Reports

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

SAMPLE SUMMARY

Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
9292001-001	925498099	TBLK-05201	Water	04/05/05	04/12/05 09:30
9292001-002	925498123	MW-4	Water	04/05/05 09:35	04/12/05 09:30
9292001-003	925498131	MW-5	Water	04/05/05 10:15	04/12/05 09:30
9292001-004	925498149	MW-15A	Water	04/05/05 11:00	04/12/05 09:30
9292001-005	925498156	MW-15	Water	04/05/05 11:30	04/12/05 09:30
9292001-006	925498164	MW-24	Water	04/05/05 13:00	04/12/05 09:30
9292001-007	925498172	MW-21	Water	04/05/05 13:30	04/12/05 09:30
9292001-008	925498180	MW-18	Water	04/05/05 13:55	04/12/05 09:30
9292001-009	925498198	MW-22	Water	04/05/05 14:55	04/12/05 09:30
9292001-010	925498206	MW-19	Water	04/05/05 15:20	04/12/05 09:30
9292001-011	925498214	MW-27	Water	04/05/05 14:30	04/12/05 09:30
9292001-012	925498222	MW-10	Water	04/06/05 09:50	04/12/05 09:30
9292001-013	925498248	MW-8	Water	04/06/05 10:15	04/12/05 09:30
9292001-014	925498255	MW-9	Water	04/06/05 10:40	04/12/05 09:30
9292001-015	925498263	MW-7	Water	04/06/05 11:05	04/12/05 09:30
9292001-016	925498271	MW-2	Water	04/06/05 11:25	04/12/05 09:30
9292001-017	925498289	MW-6	Water	04/06/05 11:45	04/12/05 09:30
9292001-018	925498297	MW-1	Water	04/06/05 12:05	04/12/05 09:30
9292001-019	925498305	MW-11	Water	04/06/05 13:00	04/12/05 09:30
9292001-020	925498313	SW-4	Water	04/06/05 13:20	04/12/05 09:30
9292001-021	925498321	MW-12	Water	04/07/05 11:15	04/12/05 09:30
9292001-022	925498339	MW-13	Water	04/07/05 11:45	04/12/05 09:30
9292001-023	925498347	MW-17	Water	04/07/05 12:10	04/12/05 09:30
9292001-024	925498354	MW-16	Water	04/07/05 13:30	04/12/05 09:30
9292001-025	925498362	MW-16A	Water	04/07/05 13:35	04/12/05 09:30
9292001-026	925498370	RW-4	Water	04/07/05 14:55	04/12/05 09:30
9292001-027	925498388	DU-05202 (RW-04)	Water	04/07/05	04/12/05 09:30
9292001-028	925498396	RW-1	Water	04/07/05 15:10	04/12/05 09:30
9292001-029	925498404	SW-3	Water	04/06/05 13:35	04/12/05 09:30
9292001-030	925498412	SW-2	Water	04/06/05 13:50	04/12/05 09:30
9292001-031	925498420	SW-1	Water	04/06/05 14:05	04/12/05 09:30
9292001-032	925498446	MW-26R	Water	04/06/05 14:30	04/12/05 09:30
9292001-033	925498453	MW-23	Water	04/06/05 15:10	04/12/05 09:30
9292001-034	925498461	DU-05201 (MW-23)	Water	04/06/05	04/12/05 09:30
9292001-035	925498479	MW-28	Water	04/07/05 09:40	04/12/05 09:30
9292001-036	925498495	MW-28A	Water	04/07/05 10:15	04/12/05 09:30
9292001-037	925498503	MW-20	Water	04/07/05 10:35	04/12/05 09:30
9292001-038	925498511	RBLK-05201	Water	04/07/05 10:40	04/12/05 09:30

REPORT OF LABORATORY ANALYSIS

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Phone: 704.875.9092
Fax: 704.875.9091

SAMPLE ANALYTE COUNT

Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
9292001-001	925498099	TBLK-05201	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-002	925498123	MW-4	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-003	925498131	MW-5	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-004	925498149	MW-15A	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-005	925498156	MW-15	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-006	925498164	MW-24	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-007	925498172	MW-21	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-008	925498180	MW-18	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-009	925498198	MW-22	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-010	925498206	MW-19	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-011	925498214	MW-27	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-012	925498222	MW-10	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-013	925498248	MW-8	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-014	925498255	MW-9	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-015	925498263	MW-7	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-016	925498271	MW-2	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-017	925498289	MW-6	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-018	925498297	MW-1	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-019	925498305	MW-11	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-020	925498313	SW-4	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-021	925498321	MW-12	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-022	925498339	MW-13	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-023	925498347	MW-17	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-024	925498354	MW-16	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-025	925498362	MW-16A	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-026	925498370	RW-4	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-027	925498388	DU-05202	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-028	925498396	RW-1	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-029	925498404	SW-3	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-030	925498412	SW-2	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-031	925498420	SW-1	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-032	925498446	MW-26R	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-033	925498453	MW-23	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-034	925498461	DU-05201	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-035	925498479	MW-28	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-036	925498495	MW-28A	8260X WL92	GC/MS VOCs by 8260, low level	8
9292001-037	925498503	MW-20	8260X WL92	GC/MS VOCs by 8260, low level	7
9292001-038	925498511	RBLK-05201	8260X WL92	GC/MS VOCs by 8260, low level	8

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498099 Project Sample Number: 9292001-001 Date Collected: 04/05/05 00:00
Client Sample ID: TBLK-05201 Matrix: Water Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 15:06	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 15:06	BCK	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/14/05 15:06	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 15:06	BCK	75-01-4		
Toluene-d8 (S)	99	%		04/14/05 15:06	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/14/05 15:06	BCK	460-00-4		
Dibromofluoromethane (S)	97	%		04/14/05 15:06	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		04/14/05 15:06	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498123 Project Sample Number: 9292001-002 Date Collected: 04/05/05 09:35
Client Sample ID: MW-4 Matrix: Water Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	180	ug/l	1.0	04/13/05 17:11	BCK	540-59-0		
Trichloroethene	280	ug/l	2.0	04/13/05 17:11	BCK	79-01-6		
Vinyl chloride	5.9	ug/l	2.0	04/13/05 17:11	BCK	75-01-4		
Toluene-d8 (S)	98	%		04/13/05 17:11	BCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/13/05 17:11	BCK	460-00-4		
Dibromofluoromethane (S)	110	%		04/13/05 17:11	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		04/13/05 17:11	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498131 | Project Sample Number: 9292001-003 | Date Collected: 04/05/05 10:15
Client Sample ID: MW-5 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	270	ug/l	1.0	04/13/05 17:37	BCK	540-59-0		
Trichloroethene	5300	ug/l	50.	04/13/05 17:37	BCK	79-01-6		
Vinyl chloride	ND	ug/l	50.	04/13/05 17:37	BCK	75-01-4		
Toluene-d8 (S)	97	%		04/13/05 17:37	BCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/13/05 17:37	BCK	460-00-4		
Dibromofluoromethane (S)	103	%		04/13/05 17:37	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	87	%		04/13/05 17:37	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498149 | Project Sample Number: 9292001-004 | Date Collected: 04/05/05 11:00
Client Sample ID: MW-15A | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 15:32	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/14/05 15:32	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 15:32	BCK	75-01-4		
Toluene-d8 (S)	98	%		04/14/05 15:32	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/14/05 15:32	BCK	460-00-4		
Dibromofluoromethane (S)	100	%		04/14/05 15:32	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		04/14/05 15:32	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498156 | Project Sample Number: 9292001-005 | Date Collected: 04/05/05 11:30
Client Sample ID: MW-15 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 15:58	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/14/05 15:58	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 15:58	BCK	75-01-4		
Toluene-d8 (S)	98	%		04/14/05 15:58	BCK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		04/14/05 15:58	BCK	460-00-4		
Dibromofluoromethane (S)	98	%		04/14/05 15:58	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	%		04/14/05 15:58	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498164 | Project Sample Number: 9292001-006 | Date Collected: 04/05/05 13:00
Client Sample ID: MW-24 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/13/05 18:55	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/13/05 18:55	BCK	127-18-4		
Trichloroethene	5.3	ug/l	1.0	04/13/05 18:55	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/13/05 18:55	BCK	75-01-4		
Toluene-d8 (S)	97	%		04/13/05 18:55	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/13/05 18:55	BCK	460-00-4		
Dibromofluoromethane (S)	100	%		04/13/05 18:55	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	79	%		04/13/05 18:55	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498172 | Project Sample Number: 9292001-007 | Date Collected: 04/05/05 13:30
Client Sample ID: MW-21 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	1.9	ug/l	1.0	04/14/05 16:24	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 16:24	BCK	127-18-4		
Trichloroethene	9.3	ug/l	1.0	04/14/05 16:24	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 16:24	BCK	75-01-4		
Toluene-d8 (S)	98	%		04/14/05 16:24	BCK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/14/05 16:24	BCK	460-00-4		
Dibromofluoromethane (S)	97	%		04/14/05 16:24	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		04/14/05 16:24	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498180 | Project Sample Number: 9292001-008 | Date Collected: 04/05/05 13:55
Client Sample ID: MW-18 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 16:50	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 16:50	BCK	127-18-4		
Trichloroethene	2.3	ug/l	1.0	04/14/05 16:50	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 16:50	BCK	75-01-4		
Toluene-d8 (S)	98	%		04/14/05 16:50	BCK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/14/05 16:50	BCK	460-00-4		
Dibromofluoromethane (S)	99	%		04/14/05 16:50	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/14/05 16:50	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498198 Project Sample Number: 9292001-009 Date Collected: 04/05/05 14:55
Client Sample ID: MW-22 Matrix: Water Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 23:10	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/14/05 23:10	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 23:10	BCK	75-01-4		
Toluene-d8 (S)	99	%		04/14/05 23:10	BCK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		04/14/05 23:10	BCK	460-00-4		
Dibromofluoromethane (S)	102	%		04/14/05 23:10	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		04/14/05 23:10	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498206 | Project Sample Number: 9292001-010 | Date Collected: 04/05/05 15:20
Client Sample ID: MW-19 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 23:35	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 23:35	BCK	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/14/05 23:35	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 23:35	BCK	75-01-4		
Toluene-d8 (S)	97	%		04/14/05 23:35	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/14/05 23:35	BCK	460-00-4		
Dibromofluoromethane (S)	100	%		04/14/05 23:35	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		04/14/05 23:35	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498214 | Project Sample Number: 9292001-011 | Date Collected: 04/05/05 14:30
Client Sample ID: MW-27 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/15/05 00:01	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/15/05 00:01	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/15/05 00:01	BCK	75-01-4		
Toluene-d8 (S)	99	%		04/15/05 00:01	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/15/05 00:01	BCK	460-00-4		
Dibromofluoromethane (S)	102	%		04/15/05 00:01	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		04/15/05 00:01	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498222 | Project Sample Number: 9292001-012 | Date Collected: 04/06/05 09:50
Client Sample ID: MW-10 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	10.	ug/l	1.0	04/15/05 00:27	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/15/05 00:27	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/15/05 00:27	BCK	75-01-4		
Toluene-d8 (S)	98	%		04/15/05 00:27	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/15/05 00:27	BCK	460-00-4		
Dibromofluoromethane (S)	102	%		04/15/05 00:27	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		04/15/05 00:27	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498248 | Project Sample Number: 9292001-013 | Date Collected: 04/06/05 10:15
Client Sample ID: MW-8 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 04:08	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 04:08	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 04:08	MSF	75-01-4		
Toluene-d8 (S)	98	%		04/16/05 04:08	MSF	2037-26-5		
4-Bromofluorobenzene (S)	92	%		04/16/05 04:08	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		04/16/05 04:08	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		04/16/05 04:08	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498255 | Project Sample Number: 9292001-014 | Date Collected: 04/06/05 10:40
Client Sample ID: MW-9 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	17.	ug/l	1.0	04/16/05 04:34	MSF	540-59-0		
Trichloroethene	250	ug/l	2.0	04/16/05 04:34	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 04:34	MSF	75-01-4		
Toluene-d8 (S)	100	%		04/16/05 04:34	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/16/05 04:34	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		04/16/05 04:34	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		04/16/05 04:34	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498263 | Project Sample Number: 9292001-015 | Date Collected: 04/06/05 11:05
Client Sample ID: MW-7 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 05:00	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 05:00	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 05:00	MSF	75-01-4		
Toluene-d8 (S)	97	%		04/16/05 05:00	MSF	2037-26-5		
4-Bromofluorobenzene (S)	93	%		04/16/05 05:00	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		04/16/05 05:00	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		04/16/05 05:00	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498271 | Project Sample Number: 9292001-016 | Date Collected: 04/06/05 11:25
Client Sample ID: MW-2 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 05:26	MSF	540-59-0		
Trichloroethene	3.1	ug/l	1.0	04/16/05 05:26	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 05:26	MSF	75-01-4		
Toluene-d8 (S)	97	%		04/16/05 05:26	MSF	2037-26-5		
4-Bromofluorobenzene (S)	92	%		04/16/05 05:26	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		04/16/05 05:26	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		04/16/05 05:26	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498289 | Project Sample Number: 9292001-017 | Date Collected: 04/06/05 11:45
Client Sample ID: MW-6 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 05:52	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 05:52	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 05:52	MSF	75-01-4		
Toluene-d8 (S)	97	%		04/16/05 05:52	MSF	2037-26-5		
4-Bromofluorobenzene (S)	90	%		04/16/05 05:52	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		04/16/05 05:52	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		04/16/05 05:52	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498297 | Project Sample Number: 9292001-018 | Date Collected: 04/06/05 12:05
Client Sample ID: MW-1 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 06:18	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 06:18	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 06:18	MSF	75-01-4		
Toluene-d8 (S)	96	%		04/16/05 06:18	MSF	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/16/05 06:18	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		04/16/05 06:18	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/16/05 06:18	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498305 | Project Sample Number: 9292001-019 | Date Collected: 04/06/05 13:00
Client Sample ID: MW-11 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 07:28	MSF	540-59-0		
Trichloroethene	1.5	ug/l	1.0	04/16/05 07:28	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 07:28	MSF	75-01-4		
Toluene-d8 (S)	97	%		04/16/05 07:28	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/16/05 07:28	MSF	460-00-4		
Dibromofluoromethane (S)	106	%		04/16/05 07:28	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		04/16/05 07:28	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498313 | Project Sample Number: 9292001-020 | Date Collected: 04/06/05 13:20
Client Sample ID: SW-4 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 07:53	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 07:53	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 07:53	MSF	75-01-4		
Toluene-d8 (S)	98	%		04/16/05 07:53	MSF	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/16/05 07:53	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		04/16/05 07:53	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		04/16/05 07:53	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498321 | Project Sample Number: 9292001-021 | Date Collected: 04/07/05 11:15
Client Sample ID: MW-12 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 08:19	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 08:19	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 08:19	MSF	75-01-4		
Toluene-d8 (S)	99	%		04/16/05 08:19	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/16/05 08:19	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		04/16/05 08:19	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		04/16/05 08:19	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498339 | Project Sample Number: 9292001-022 | Date Collected: 04/07/05 11:45
Client Sample ID: MW-13 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 08:45	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 08:45	MSF	79-01-6		
Vinyl chloride	4.3	ug/l	1.0	04/16/05 08:45	MSF	75-01-4		
Toluene-d8 (S)	98	%		04/16/05 08:45	MSF	2037-26-5		
4-Bromofluorobenzene (S)	93	%		04/16/05 08:45	MSF	460-00-4		
Dibromofluoromethane (S)	110	%		04/16/05 08:45	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		04/16/05 08:45	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498347 | Project Sample Number: 9292001-023 | Date Collected: 04/07/05 12:10
Client Sample ID: MW-17 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 09:11	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 09:11	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 09:11	MSF	75-01-4		
Toluene-d8 (S)	95	%		04/16/05 09:11	MSF	2037-26-5		
4-Bromofluorobenzene (S)	93	%		04/16/05 09:11	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		04/16/05 09:11	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	91	%		04/16/05 09:11	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498354 | Project Sample Number: 9292001-024 | Date Collected: 04/07/05 13:30
Client Sample ID: MW-16 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 09:37	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 09:37	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 09:37	MSF	75-01-4		
Toluene-d8 (S)	98	%		04/16/05 09:37	MSF	2037-26-5		
4-Bromofluorobenzene (S)	92	%		04/16/05 09:37	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		04/16/05 09:37	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/16/05 09:37	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498362 | Project Sample Number: 9292001-025 | Date Collected: 04/07/05 13:35
Client Sample ID: MW-16A | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 10:03	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 10:03	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 10:03	MSF	75-01-4		
Toluene-d8 (S)	97	%		04/16/05 10:03	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/16/05 10:03	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		04/16/05 10:03	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		04/16/05 10:03	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498370 | Project Sample Number: 9292001-026 | Date Collected: 04/07/05 14:55
Client Sample ID: RW-4 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	5.4	ug/l	1.0	04/16/05 10:29	MSF	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/16/05 10:29	MSF	127-18-4		
Trichloroethene	240	ug/l	2.0	04/16/05 10:29	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 10:29	MSF	75-01-4		
Toluene-d8 (S)	98	%		04/16/05 10:29	MSF	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/16/05 10:29	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		04/16/05 10:29	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		04/16/05 10:29	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498388 | Project Sample Number: 9292001-027 | Date Collected: 04/07/05 00:00
Client Sample ID: DU-05202 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	6.0	ug/l	1.0	04/16/05 10:55	MSF	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/16/05 10:55	MSF	127-18-4		
Trichloroethene	270	ug/l	2.0	04/16/05 10:55	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 10:55	MSF	75-01-4		
Toluene-d8 (S)	99	%		04/16/05 10:55	MSF	2037-26-5		
4-Bromofluorobenzene (S)	92	%		04/16/05 10:55	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		04/16/05 10:55	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		04/16/05 10:55	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498396 | Project Sample Number: 9292001-028 | Date Collected: 04/07/05 15:10
Client Sample ID: RW-1 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	16.	ug/l	1.0	04/14/05 17:42	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	10.	04/14/05 17:42	BCK	127-18-4		
Trichloroethene	720	ug/l	10.	04/14/05 17:42	BCK	79-01-6		
Vinyl chloride	ND	ug/l	10.	04/14/05 17:42	BCK	75-01-4		
Toluene-d8 (S)	99	%		04/14/05 17:42	BCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/14/05 17:42	BCK	460-00-4		
Dibromofluoromethane (S)	108	%		04/14/05 17:42	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		04/14/05 17:42	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498404 Project Sample Number: 9292001-029 Date Collected: 04/06/05 13:35
Client Sample ID: SW-3 Matrix: Water Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 17:16	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/14/05 17:16	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 17:16	BCK	75-01-4		
Toluene-d8 (S)	99	%		04/14/05 17:16	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/14/05 17:16	BCK	460-00-4		
Dibromofluoromethane (S)	100	%		04/14/05 17:16	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		04/14/05 17:16	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498412 | Project Sample Number: 9292001-030 | Date Collected: 04/06/05 13:50
Client Sample ID: SW-2 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/16/05 21:33	MSF	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/16/05 21:33	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 21:33	MSF	75-01-4		
Toluene-d8 (S)	97	%		04/16/05 21:33	MSF	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/16/05 21:33	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		04/16/05 21:33	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		04/16/05 21:33	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498420 | Project Sample Number: 9292001-031 | Date Collected: 04/06/05 14:05
Client Sample ID: SW-1 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 17:01	BCK	540-59-0		
Trichloroethene	ND	ug/l	1.0	04/14/05 17:01	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 17:01	BCK	75-01-4		
Toluene-d8 (S)	106	%		04/14/05 17:01	BCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/14/05 17:01	BCK	460-00-4		
Dibromofluoromethane (S)	153	%		04/14/05 17:01	BCK	1868-53-7	1	
1,2-Dichloroethane-d4 (S)	97	%		04/14/05 17:01	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498446 | Project Sample Number: 9292001-032 | Date Collected: 04/06/05 14:30
Client Sample ID: MW-26R | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	44.	ug/l	1.0	04/14/05 17:27	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 17:27	BCK	127-18-4		
Trichloroethene	5.6	ug/l	1.0	04/14/05 17:27	BCK	79-01-6		
Vinyl chloride	23.	ug/l	1.0	04/14/05 17:27	BCK	75-01-4		
Toluene-d8 (S)	103	%		04/14/05 17:27	BCK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		04/14/05 17:27	BCK	460-00-4		
Dibromofluoromethane (S)	98	%		04/14/05 17:27	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		04/14/05 17:27	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498453 Project Sample Number: 9292001-033 Date Collected: 04/06/05 15:10
Client Sample ID: MW-23 Matrix: Water Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 17:53	BCK	540-59-0		
Tetrachloroethene	6.8	ug/l	1.0	04/14/05 17:53	BCK	127-18-4		
Trichloroethene	3.8	ug/l	1.0	04/14/05 17:53	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 17:53	BCK	75-01-4		
Toluene-d8 (S)	83	%		04/14/05 17:53	BCK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		04/14/05 17:53	BCK	460-00-4		
Dibromofluoromethane (S)	94	%		04/14/05 17:53	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		04/14/05 17:53	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498461 | Project Sample Number: 9292001-034 | Date Collected: 04/06/05 00:00
Client Sample ID: DU-05201 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 18:19	BCK	540-59-0		
Tetrachloroethene	5.0	ug/l	1.0	04/14/05 18:19	BCK	127-18-4		
Trichloroethene	1.9	ug/l	1.0	04/14/05 18:19	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 18:19	BCK	75-01-4		
Toluene-d8 (S)	105	%		04/14/05 18:19	BCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/14/05 18:19	BCK	460-00-4		
Dibromofluoromethane (S)	98	%		04/14/05 18:19	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		04/14/05 18:19	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498479 | Project Sample Number: 9292001-035 | Date Collected: 04/07/05 09:40
Client Sample ID: MW-28 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 18:46	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 18:46	BCK	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/14/05 18:46	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 18:46	BCK	75-01-4		
Toluene-d8 (S)	103	%		04/14/05 18:46	BCK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		04/14/05 18:46	BCK	460-00-4		
Dibromofluoromethane (S)	96	%		04/14/05 18:46	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		04/14/05 18:46	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498495 | Project Sample Number: 9292001-036 | Date Collected: 04/07/05 10:15
Client Sample ID: MW-28A | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	3.4	ug/l	1.0	04/16/05 21:59	MSF	540-59-0		
Tetrachloroethene	22.	ug/l	1.0	04/16/05 21:59	MSF	127-18-4		
Trichloroethene	11.	ug/l	1.0	04/16/05 21:59	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/16/05 21:59	MSF	75-01-4		
Toluene-d8 (S)	96	%		04/16/05 21:59	MSF	2037-26-5		
4-Bromofluorobenzene (S)	93	%		04/16/05 21:59	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		04/16/05 21:59	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		04/16/05 21:59	MSF	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498503 | Project Sample Number: 9292001-037 | Date Collected: 04/07/05 10:35
Client Sample ID: MW-20 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	5.8	ug/l	1.0	04/14/05 19:38	BCK	540-59-0		
Trichloroethene	6.8	ug/l	1.0	04/14/05 19:38	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 19:38	BCK	75-01-4		
Toluene-d8 (S)	103	%		04/14/05 19:38	BCK	2037-26-5		
4-Bromofluorobenzene (S)	89	%		04/14/05 19:38	BCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/14/05 19:38	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		04/14/05 19:38	BCK	17060-07-0		

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Lab Project Number: 9292001
Client Project ID: SKF Asheville/70144.36

Lab Sample No: 925498511 | Project Sample Number: 9292001-038 | Date Collected: 04/07/05 10:40
Client Sample ID: RBLK-05201 | Matrix: Water | Date Received: 04/12/05 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/14/05 20:04	BCK	540-59-0		
Tetrachloroethene	ND	ug/l	1.0	04/14/05 20:04	BCK	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/14/05 20:04	BCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/14/05 20:04	BCK	75-01-4		
Toluene-d8 (S)	102	%		04/14/05 20:04	BCK	2037-26-5		
4-Bromofluorobenzene (S)	85	%		04/14/05 20:04	BCK	460-00-4		
Dibromofluoromethane (S)	104	%		04/14/05 20:04	BCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		04/14/05 20:04	BCK	17060-07-0		

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SC 99006

CHAIN OF CUSTODY RECORD

VU 75047

RMT

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36
Project/Client: SKF Asheville
Project Manager/Contact Person: Mike Parker / Dan Madison

Filtered (Yes/No): N
Preserved (Code): E

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs				Comments:
001	—	—	TBLK-05201	3	DI	X		9254980 99		3-40 ml VOA
002	4-5	0935	MW-4	~~TBG~~ 6	GW	X		9254981 23		MS/MSD 6-40 ml VOA
003	4-5	1015	MW-5	3	GW	X		9254981 31		
004	4-5	1100	MW-15A	3	GW	X		9254981 49		
005	4-5	1130	MW-15	3	GW	X		9254981 56		
006	4-5	1300	MW-24	3	GW	X		9254981 64		
007	4-5	1330	MW-21	3	GW	X		9254981 72		
008	4-5	1355	MW-18	3	GW	X		9254981 80		
009	4-5	1455	MW-22	3	GW	X		9254981 98		
010	4-5	1520	MW-19	3	GW	X		9254982 06		

SPECIAL INSTRUCTIONS

8488-3084-7516

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Travis Tolson	4-8-05	FedEx	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FED EX	4-8-05 0930	Ashley Busby	4-8-05 0930
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
A.B. Adrian Ontalo	4/11/05 1600	Fedex	

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one): Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: 0°C
Temp Blank: Y (N)
Receipt pH (Wet/Metals): NA

Custody Seal: (Present)/Absent (Intact)/Not Intact Seal #s Kimbrunk 4/12/05 9:30A

F-268 (6/04)

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Q57957

CHAIN OF CUSTODY RECORD

75048

RMT

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36
Project/Client: SKF Asheville
Project Manager/Contact Person: Mike Parker / Dan Madison

Filtered (Yes/No): N
Preserved (Code): E

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:	
011	4-5	1430	MW-27	3	GW	X								8-40ml B	925498214
012	4-6	0950	MW-10	3	GW	X									925498222
013	4-6	1015	MW-8	3	GW	X									925498248
014	4-6	1040	MW-9	3	GW	X									925498255
015	4-6	1105	MW-7	3	GW	X									925498263
016	4-6	1125	MW-2	3	GW	X									925498271
017	4-6	1145	MW-6	3	GW	X									925498289
018	4-6	1205	MW-1	3	GW	X									925498297
019	4-6	1300	MW-11	3	GW	X									925498305
020	4-6	1320	SW-4	3	SW	X									925498313

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Travis Parker	4-7-05	FED EX	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FED EX	4-8-05 0930	Ashley Bunsley	4-8-05 0930
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
A.B. [illegible]	4/11/05 1600	Fedex	

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank Y (N)
t=0°C
Receipt pH (Wet/Metals): NA

Custody Seal: (Present) Absent Intact/Not Intact Seal #s [illegible] 4/12/05 9:30A

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

857957

CHAIN OF CUSTODY RECORD

75050

RMT
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Phone 864/281-0030 • Fax 864/281-0288

Project No.: 70144.36
Project/Client: SKF Asheville
Project Manager/Contact Person: Mike Parker / Dan Madison

Filtered (Yes/No): N
Preserved (Code): E

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:	
021	4-7	1115	MW-12	3	GW	X								3-40ml B	925498321
022	4-7	1145	MW-13	3	GW	X									925498339
023	4-7	1210	MW-17	3	GW	X									925498347
024	4-7	1330	MW-16	3	GW	X									925498354
025	4-7	1335	MW-16A	3	GW	X									925498362
026	4-7	1455	RW-4	3	GW	X									925498370
027			DU-052002	3	GW	X									925498388
028	4-7	1510	RW-1												925498396

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Travis Tabert	4-7-05	FED EX	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FED EX	4-8-05 0930	Ashley Bunsky	4-8-05 0930
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
A.B. / Stevie Patterson	4/11/05 1600	Fedy	

Custody Seal: (Present) Absent (Intact) Not Intact Seal #s Kimbrank 4/12/05 9:30A

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: t = 0°C
Temp Blank Y (N)
Receipt pH (Wet/Metals): NA

F-268 (6/04)

857957

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

RMT

CHAIN OF CUSTODY RECORD

75049

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36
Project/Client: SKF Asheville
Project Manager/Contact Person: Mike Parker / Dan Madison

Filtered (Yes/No): N
Preserved (Code): E

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:	
029	4-6	1335	SW-3	3	SW	X								3-40ml B	925498404
030	4-6	1350	SW-2	3	SW	X									925498412
031	4-6	1405	SW-1	3	SW	X									925498420
032	4-6	1430	MW-26R	3	~~SW~~ GW	X									925498446
033	4-6	1510	MW-23	3	GW	X									925498453
034			DU-05201	3	GW	X									925498461
035	4-7	0940	MW-28	3	GW	X									925498479
036	4-7	1015	MW-28A	6	GW	X								MS/MSD	12-40ml B 925498487
037	4-7	1035	MW-20	3	GW	X									925498503
038	4-7	1040	RBLK-05201	3	DI	X									925498511

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Travis Tolar	4-7-05	FED EX	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
FED EX	4-8-05 0930	Shirley Burkey	4-8-05 0930
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
A.B. / Sherri Deptatos	4/11/05 1600	Fedx	

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: 0°C
Temp Blank Y (N)
Receipt pH (Wet/Metals): NA

Custody Seal: Present/Absent Intact/Not Intact Seal #s
Kim Frank 4/12/05 9:30A

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

857957

30 Patewood Drive, Suite 100
Greenville, South Carolina 29615-3535
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Groundwater Monitoring Report for the October 2005 Sampling Event Groundwater Incident No. 10032

Girmes Site, Formerly SKF USA Inc.

Buncombe County, North Carolina

December 2005

Michael B. Parker, P.E.
Vice President/Senior Client
Service Manager

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Certification

The hydrogeology work for the Girmes Site, formerly SKF USA Inc., in Buncombe County, North Carolina, was performed by an RMT, Inc. consulting hydrogeologist in support of RMT North Carolina, Inc.

Dan O. Madison, Jr., P.G.
RMT, Inc.

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Executive Summary

As a part of the Corrective Action Plan (CAP), SKF USA Inc. (SKF) operates a groundwater recovery and treatment system at the former J.L. deBall Girmes of America (Girmes) site in Asheville, North Carolina for the purpose of removing volatile organic compound VOC impacted groundwater. The system operated continuously from March 1998 until November 11, 2002. Since November 2002, the recovery system has operated on a pulsed pumping cycle. Each cycle consists of six weeks of system operation followed by six weeks of system shut down.

Groundwater and surface water samples are collected at the site on a semiannual basis. Groundwater elevations are measured in monitoring and recovery wells during each sampling event. The latest sampling event was conducted during the week of October 3, 2005. On the northeast side of the Girmes facility, trichloroethene (TCE) was detected in samples collected from five wells (MW-2, MW-4, MW-5, MW-9, and MW-20) at concentrations exceeding the North Carolina (NC) 2L standard. 1,2-Dichloroethene (1,2-DCE) was detected in samples collected from two wells (MW-4 and MW-5) at concentrations exceeding the NC 2L standard. Vinyl chloride was detected in samples collected from wells MW-4 and MW-13 at concentrations exceeding the NC 2L standard. This is consistent with the sampling events conducted over the last several years.

On the southwest side of the Girmes facility, one well (MW-14) was dry and could not be sampled. Additionally, two wells (MW-18 and MW-21) had insufficient volume of water to sample. Groundwater samples collected from five of the remaining monitoring wells (MW-19, MW-20, MW-24, MW-26R, and MW-28A) and two recovery wells (RW-1 and RW-4) had TCE concentrations exceeding the NC 2L standard. 1,2-DCE was not detected at concentrations exceeding the NC 2L standard on the southwest side of the Girmes facility. Vinyl chloride was detected in samples collected from well MW-26R at a concentration exceeding the NC 2L standard. Tetrachloroethene (PCE) was detected in groundwater samples collected from two monitoring wells (MW-23 and MW-28A) and recovery well RW-01 at concentrations exceeding the NC 2L standard. This is consistent with the sampling events conducted over the last several years.

None of the surface water samples had detections of TCE, 1,2-DCE, or vinyl chloride.

The estimated amount of groundwater that was recovered and treated during May 2005 through October 2005 is 3.54 million gallons. It is estimated that over 38 pounds of TCE were removed during that period. Pulse pumping of the groundwater recovery system has increased the amount of TCE removed on an annual basis while significantly reducing the volume of water treated. It is recommended that pulse pumping of the recovery system continue in 2006.

Section 1
Introduction

The Girmes site is a former textile plant located on Old Highway 74 East in Asheville, North Carolina. Girmes owned the site from 1973 until 2001 when it was purchased by LMC, LLC. The site was formerly occupied by SKF from approximately 1960 to 1973. The North Carolina Department of Environment and Natural Resources (NC DENR) issued SKF a Notice of Violation (NOV) on April 2, 1993 (Groundwater Incident Number 10032). In response to the NOV and associated correspondence, SKF conducted comprehensive site assessment (CSA) activities in 1993 and 1994. VOCs, in particular TCE, 1,2-DCE, and vinyl chloride, were found in groundwater at the site. The results of the CSA were submitted to NC DENR in November 1994. Following the CSA, a CAP to address the VOC-impacted groundwater was prepared and submitted to NC DENR in October 1996.

RMT North Carolina, Inc. (RMT) was retained by SKF to implement the CAP. A groundwater recovery system consisting of three groundwater recovery wells and an air stripper unit was installed in 1997 and early 1998. The system began operation on March 4, 1998.

The CAP specified that groundwater elevations were to be measured in all wells on a quarterly basis. Water samples were to be collected from all 29 monitoring wells, 3 recovery wells, and 4 surface water stations, on a semiannual basis. Thirteen of these monitoring wells, along with the three recovery wells, were also to be sampled quarterly. The CAP specified that the samples were to be analyzed for TCE, 1,2-DCE, and vinyl chloride.

On December 11, 2000, NC DENR approved reducing the monitoring frequency from quarterly to semiannually. Beginning in 2001, the 29 monitoring wells, 3 recovery wells, and 4 surface water stations were sampled on a semiannual basis. Groundwater elevations were also measured on a semiannual basis. Water samples and elevations are now collected in April and October of each year.

In August 2002, RMT proposed to switch the operation of the groundwater recovery system from continuous pumping to a pulsed pumping schedule in an effort to increase contaminant recovery. In October 2002, RMT proposed further modifications to the pumping cycle. Under the pulsed pumping schedule, the groundwater recovery system would operate one cycle per quarter. Each cycle consists of 6 weeks of pumping followed by 6 weeks of no pumping. Ms. Kay Dechant of NC DENR approved the modified pulse pumping plan on October 14, 2002, and the first pumping cycle was initiated on November 11, 2002.

The latest semiannual sampling event was conducted during the week of October 3, 2005. This report presents results of the October 2005 sampling event.

Section 2
Groundwater Elevations

The recovery system has been operating on a pulsed pumping cycle since November 11, 2002. During this monitoring period, groundwater levels were measured on October 3, 2005 prior to the groundwater sampling event. Water levels are summarized in Table 1 along with pre-startup elevations measured in January 1998.

Water levels measured on October 3, 2005, were used to construct the water table map shown on Plate 1. These water levels reflect water table conditions near the end of the system-off cycle. As specified in the CAP, hydrographs were also prepared for 12 bedrock wells (MW-4, MW-5, MW-14, MW-17, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-27, and MW-28A). These hydrographs are presented in Appendix A.

The hydrographs for wells MW-14, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, and MW-27 and historical water table maps have shown a cone of depression around the recovery wells during times of system operation. As expected, the October 2005 (see Plate 1) water levels, measured before the recovery system was restarted following an "off" cycle, do not show this cone of depression around the recovery system.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT	
		01/21/98*	10/03/05
MW-1	2,123.16	2,066.52	2063.78
MW-2	2,074.52	2,053.45	2052.82
MW-4	2,122.38	2,061.38	2062.64
MW-5	2,121.44	2,058.17	2058.94
MW-6	2,102.22	2,058.96	2057.04
MW-7	2,071.17	2,052.76	2052.29
MW-8	2,075.22	2,054.34	2054.44
MW-9	2,072.29	2,053.32	2054.22
MW-10	2,076.30	2,052.95	2052.04
MW-11	2,109.60	2,046.88	2042.46
MW-12	2,040.65	2,038.44	2031.76
MW-13	2,044.67	2,037.38	2034.48
MW-14	2,119.88	<2040.20	DRY
MW-15	2,058.15	2,046.02	2045.89
MW-15A	2,058.16	2,047.38	2046.35
MW-16	2,059.22	2,052.79	2052.61
MW-16A	2,059.33	2,053.16	2052.88
MW-17	2,056.71	2,050.77	2047.32
MW-18	2,036.36	2,023.81	DRY
MW-19	2,037.74	2,018.32	2015.43
MW-20	2,027.36	2,013.59	2012.59
MW-21	2,036.74	2,022.53	2007.87
MW-22	2,082.12	2,038.87	2037.22
MW-23	2,027.54	2,020.41	2017.54
MW-24	2,035.05	2,021.21	2019.31
MW-26R	2,021.35	2,015.12	2016.99
MW-27	2,051.08	2,025.26	2023.03
MW-28	2,022.48	2,012.11	2011.22
MW-28A	2,022.69	2,012.36	2010.9
RW-1	2,031.70	NM	NM
RW-2	2,071.70	NM	2051.01
RW-3	2,033.40	NM	NM
RW-4	2,032.10	NM	NM

Elevations are in feet above mean sea level.

[1] Top of casing measured in feet above mean sea level.

* Pre-startup

NM - Not Measured, well not accessible.

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Section 3
Groundwater and Surface Water Quality

Groundwater samples were collected from 26 monitoring wells and 2 recovery wells (RW-1 and RW-4) on October 4 through October 6, 2005. Recovery well RW-3 has been off-line since April 2002 because of low yield and related operational problems; thus, no groundwater samples have been collected at this location. Surface water samples were also collected from the four surface water stations (SW-1, SW-2, SW-3, and SW-4). Sampling locations are shown on Figure 1 and Plate 1. Monitoring well MW-14 was dry at that time due to drawdown and could not be sampled. Additionally, monitoring wells MW-18 and MW-21 had insufficient volume of water to sample. Groundwater samples were analyzed for TCE, 1,2-DCE, and vinyl chloride. In addition, six monitoring wells and two recovery wells (RW-1 and RW-4) were analyzed for PCE. Analytical results are summarized in Table 2. Laboratory analytical reports are presented in Appendix B. Table 3 and Table 4 present a 24-month summary of the concentrations of TCE and 1,2-DCE. Monitoring wells across the site, where TCE and 1,2-DCE have been detected, are also presented graphically in Appendix C.

3.1 Standard Monitoring Program

3.1.1 Northeast Portion of the Site

During the October sampling event, 18 monitoring wells were sampled on the northeast side of the Girmes facility (Plate 1). TCE was detected in samples collected from eight wells, with the concentrations observed above the NC 2L standard of 0.0028 mg/L in five of these wells (MW-2, MW-4, MW-5, MW-9, and MW-20). Since the last sampling event conducted in April 2005, TCE concentrations have increased in samples collected from wells MW-2, MW-9, and MW-20 and have remained generally unchanged in samples collected from wells MW-4 and MW-5. A 24-month summary of the TCE concentrations for these wells is presented in Table 3 and shown graphically in Appendix C.

1,2-DCE was detected in samples collected from five monitoring wells. Concentrations of 1,2-DCE were observed above the NC 2L standard of 0.07 mg/L in only two of these five wells (MW-4 and MW-5). The 1,2-DCE concentrations observed in samples collected from both wells increased since last sampled in April 2005. A 24-month summary of the 1,2-DCE concentrations for these wells is presented in Table 4 and shown graphically in Appendix C.

Vinyl chloride was detected in samples collected from two monitoring wells (MW-4 and MW-13). The concentrations observed in these samples were above the NC 2L standard of 0.000015 mg/L. Historically, vinyl chloride has been detected in most samples collected from MW-13, and in some of the samples collected from MW-4 since October 1999.

3.1.2 Southwest Portion of the Site

On the southwest side of the Girmes facility, 8 monitoring wells (MW-19, MW-22, MW-23, MW-24, MW-26R, MW-27, MW-28, and MW-28A) and 2 recovery wells (RW-1 and RW-4) were sampled (Plate 1). Monitoring well MW-14 was dry and could not be sampled. Monitoring wells MW-18 and MW-21 had insufficient volume of water to sample. Recovery well RW-3 was not operating during the October 2005 sampling event and therefore was not sampled.

TCE was detected in groundwater samples collected from four monitoring wells (MW-19, MW-24, MW-26R, and MW-28A) and both recovery wells (RW-1 and RW-4) at concentrations above the NC 2L standards. TCE was also detected in groundwater samples collected from one monitoring well (MW-23) at a concentration below the NC 2L standard. TCE concentrations increased in samples collected from monitoring well MW-19, and recovery wells RW-1 and RW-4, since last sampled in April 2005. TCE concentrations detected in samples collected from monitoring wells MW-24 and MW-26R have decreased slightly since last sampled in April 2005. TCE concentrations in samples collected from MW-28A have remained generally unchanged since last sampled. A 24-month summary of the TCE concentrations for these wells is presented in Table 3 and shown graphically in Appendix C.

Historically, the highest TCE concentration found on the southwest side of the Girmes facility was in samples collected from monitoring well MW-23, opposite Gashes Creek from the Girmes facility. In addition, PCE has been found in monitoring wells on the southwest side of Gashes Creek (see Subsection 3.2). This information indicates that VOCs found on that southwest side of the Gashes Creek are the result of a release on that side of the creek and not related to groundwater quality at the Girmes facility.

1,2-DCE was detected in groundwater samples collected from three of the monitoring wells (MW-19, MW-26R, and MW-28A) and in both recovery wells (RW-1 and RW-4). Detected concentrations were all below the NC 2L standard. A 24-month summary of the 1,2-DCE concentrations for these wells is presented in Table 4 and shown graphically in Appendix C.

Vinyl chloride was detected in the sample collected from monitoring well MW-26R on the southwest side of the Girmes facility at a concentration exceeding the NC 2L standard. Monitoring well MW-26R is located on Dotson's property on the southwest side of Gashes Creek. The detected concentration in monitoring well MW-26R, 0.014 mg/L, has decreased since the previous sampling event and remains above the NC 2L standard.

Surface water samples were collected from four surface water stations (SW-1, SW-2, SW-3, and SW-4) during the October sampling event. None of the surface water samples collected had detections of TCE, 1,2-DCE, or vinyl chloride.

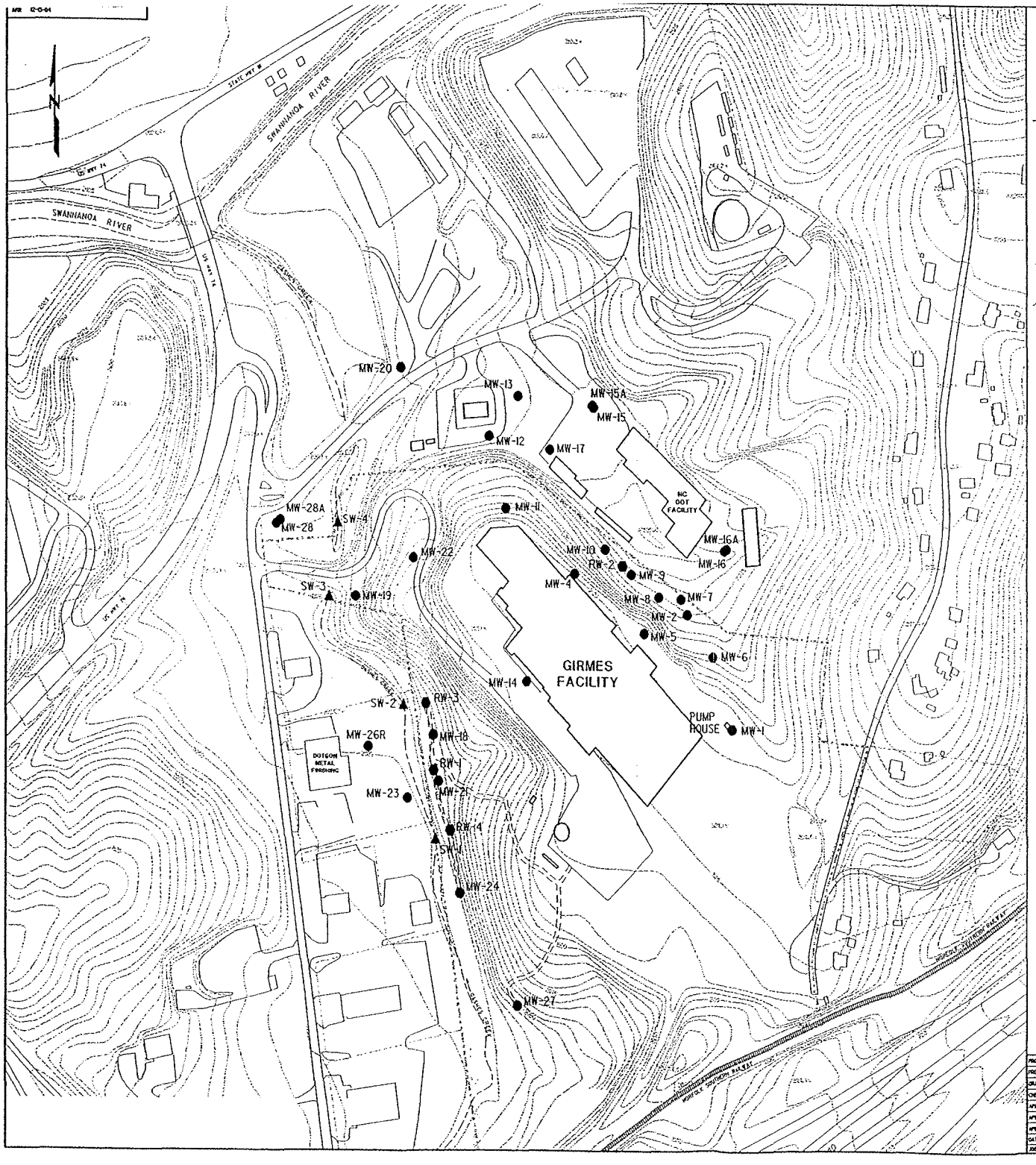
3.2 Additional Analytical Parameter

Since shortly after startup of the groundwater recovery system, PCE was found in the influent to the treatment system. Select monitoring wells sampled during the January 1999 monitoring event were analyzed for PCE in addition to the standard analytical parameters. The January 1999 analytical results, along with historical groundwater analytical data collected at the site during the CSA, led SKF to conclude that the PCE and other VOCs found on the southwest side of Gashes Creek have no relationship to the affected groundwater found on the Girmes facility.

In the groundwater monitoring report for the January 1999 sampling event, SKF modified the groundwater monitoring program to continue monitoring all of the wells specified in the CAP according to the specified schedule. In addition to TCE, 1,2-DCE, and vinyl chloride, recovery wells RW-1, RW-3, and RW-4 and select monitoring wells would also be sampled for PCE.

During the October 2005 sampling event, six monitoring wells (MW-19, MW-23, MW-24, MW-26R, MW-28, and MW-28A) and the two operating recovery wells (RW-1 and RW-4) were analyzed for PCE. Analytical results are included in Table 2. PCE was detected in samples collected from two of the monitoring wells (MW-23 and MW-28A, both located on the west side of Gashes Creek) and one recovery well (RW-1) at concentrations above the NC 2L standards. The PCE concentrations detected in samples collected from the two monitoring wells have decreased since last sampled in April 2005. The PCE concentration observed in the sample collected from recovery well (RW-01) has increased since last sampled in April 2005. When operating, recovery wells RW-1 and RW-4 recover groundwater from the southwest side of Gashes Creek.

The analytical results for PCE are consistent with the results from previous sampling events conducted since January 1999. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility.



LEGEND

▲ SW-1	SURFACE WATER SAMPLING LOCATION
● MW-15	MONITORING WELL LOCATION
----------	PROPERTY LINE - OTHER
—900—	TOPOGRAPHIC CONTOUR

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES. WERE INCLUDED AS PART OF THE BASE MAP.

0 100 200 300 400
SCALE IN FEET

PROJECT MGR.	G.G. MADSON
PREPARED BY:	J. S. BEDNTOLD
DRAWN BY:	J. S. BEDNTOLD
CHECKED BY:	G.G. MADSON
APPROVED BY:	
APPROVED BY:	G. G. MADSON
APPROVED BY:	
DATE:	DECEMBER 2004
JOB NO.	7044

RMT
100 Verdae Boulevard
P.O. Box 16778
Greenville, SC 29606
(864) 234-0030

LOCATION OF DATA POINTS

GIRMES SITE, formerly SKF USA
ASHEVILLE, NORTH CAROLINA

SCALE: AS NOTED

FIGURE NO. 1

Table 2
Analytical Results for Groundwater and Surface Water Samples

STATION	SAMPLEDATE	TCE	1,2-DCE, TOTAL	VINYL CHLORIDE	PCE
NC 2L Standard		0.0028	0.07	0.000015	0.0007
MW-01	6-Oct-05	<0.001	<0.001	<0.001	NA
MW-02	6-Oct-05	0.0094	<0.001	<0.001	NA
MW-04	5-Oct-05	0.28	0.26	0.0053	NA
MW-05	5-Oct-05	5.6	0.31	<0.05	NA
MW-06	6-Oct-05	<0.001	<0.001	<0.001	NA
MW-07	6-Oct-05	<0.001	<0.001	<0.001	NA
MW-08	6-Oct-05	0.0011	<0.001	<0.001	NA
MW-09	6-Oct-05	0.73	0.042	<0.002	NA
MW-10	6-Oct-05	0.001	0.015	<0.001	NA
MW-11	6-Oct-05	0.0014	<0.001	<0.001	NA
MW-12	4-Oct-05	<0.001	<0.001	<0.001	NA
MW-13	4-Oct-05	<0.001	<0.001	0.0069	NA
MW-15	4-Oct-05	<0.001	<0.001	<0.001	NA
MW-15A	5-Oct-05	<0.001	<0.001	<0.001	NA
MW-16	4-Oct-05	<0.001	<0.001	<0.001	NA
MW-16A	4-Oct-05	<0.001	<0.001	<0.001	NA
MW-17	4-Oct-05	<0.001	<0.001	<0.001	NA
MW-19	6-Oct-05	0.032	0.0012	<0.001	<0.001
MW-20	4-Oct-05	0.0082	0.0051	<0.001	NA
MW-22	6-Oct-05	<0.001	<0.001	<0.001	NA
MW-23	4-Oct-05	0.0011	<0.001	<0.001	0.0013
MW-24	5-Oct-05	0.0033	<0.001	<0.001	<0.001
MW-26R	4-Oct-05	0.0026	0.032	0.014	<0.001
MW-27	6-Oct-05	<0.001	<0.001	<0.001	NA
MW-28	4-Oct-05	<0.001	<0.001	<0.001	<0.001
MW-28A	4-Oct-05	0.01	0.0029	<0.001	0.018
MW-28A (DU-05401)	4-Oct-05	0.01	0.0029	<0.001	0.017
RW-01	5-Oct-05	1.3	0.032	<0.005	0.01
RW-04	5-Oct-05	0.41	0.0088	<0.002	<0.002
RW-4 (DU-05401)	6-Oct-05	0.38	0.007	<0.002	<0.002
SW-01	5-Oct-05	<0.001	<0.001	<0.001	NA
SW-02	5-Oct-05	<0.001	<0.001	<0.001	NA
SW-03	5-Oct-05	<0.001	<0.001	<0.001	NA
SW-04	5-Oct-05	<0.001	<0.001	<0.001	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

< - Concentration less than the Quantitation Limit.

NA - Not analyzed.

Shading indicates sample exceeds NC 2L Standard.

Table 3
Twenty-four Month Summary of
Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE				
	OCT-03	MAR-04	OCT-04	APR-05	OCT-05
MW-1	ND	ND	ND	ND	ND
MW-2	0.012	0.0028	0.0031	0.0031 j	0.0094
MW-4	0.28	0.38	0.28	0.28 j	0.28
MW-5	6.6	7	5.9	5.3 j	5.6
MW-6	ND	ND	ND	ND	ND
MW-7	ND	ND	0.0022	ND	ND
MW-8	ND	ND	ND	ND	0.0011
MW-9	0.31	0.38	0.19	0.25 j	0.73
MW-10	0.0029	0.00079 J	ND	ND	0.001
MW-11	0.0027	0.0025	0.0017	0.0015 j	0.0014
MW-12	ND	ND	ND	ND	ND
MW-13	0.074	ND	ND	ND	ND
MW-14	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	ND
MW-15A	ND	ND	0.0011	ND	ND
MW-16	ND	ND	ND	ND	ND
MW-16A	0.00039 J	ND	ND	ND	ND
MW-17	ND	ND	ND	ND	ND
MW-18	0.0078	0.0067	NA	0.0023 j	NA
MW-19	0.044	0.02	0.0085	ND	0.032
MW-20	0.007	0.0063	0.008	0.0068 j	0.0082
MW-21	0.0014	0.0085	NA	0.0093 j	NA
MW-22	ND	ND	ND	ND	ND
MW-23	0.004	0.0022	0.0021	0.0038 j	0.0011
MW-24	0.011	0.0078	0.0042	0.0053 j	0.0033
MW-26R	0.00041 J	0.0014	ND	0.0056 j	0.0026
MW-27	ND	ND	ND	ND	ND
MW-28	0.00024 J	ND	ND	ND	ND
MW-28A	ND	0.0079	0.01	0.011 j	0.01
RW-1	1.1 D	0.44	1.1	0.72	1.3
RW-3	NA	NA	NA	NA	NA
RW-4	0.18	0.2	0.2	0.24	0.41

Table 3
Twenty-four Month Summary of
Trichloroethene Concentrations Detected in Groundwater[1]
Qualifiers

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.
j - Concentration considered an estimate based on data validation.
NA - Not analyzed.
ND - Not detected.

Table 4
Twenty-four Month Summary of
1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE				
	OCT-03	MAR-04	OCT-04	APR-05	OCT-05
MW-1	ND	ND	ND	ND	ND
MW-2	0.0051	ND	ND	ND	ND
MW-4	0.28	0.18	0.2	0.18	0.26
MW-5	0.36	0.36	0.34	0.27	0.31
MW-6	ND	ND	ND	ND	ND
MW-7	ND	ND	ND	ND	ND
MW-8	ND	ND	ND	ND	ND
MW-9	0.014	0.016	0.0097	0.017	0.042
MW-10	ND	0.011	0.0085	0.01	0.015
MW-11	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND
MW-13	0.0032	ND	ND	ND	ND
MW-14	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	ND
MW-15A	ND	ND	ND	ND	ND
MW-16	ND	ND	ND	ND	ND
MW-16A	ND	ND	ND	ND	ND
MW-17	ND	ND	ND	ND	ND
MW-18	0.0027	ND	NA	ND	NA
MW-19	0.0018 J	ND	ND	ND	0.0012
MW-20	0.0037	0.0036	0.0041	0.0058	0.0051
MW-21	0.017	0.0026	NA	0.0019	NA
MW-22	ND	ND	ND	ND	ND
MW-23	ND	ND	ND	ND	ND
MW-24	ND	ND	ND	ND	ND
MW-26R	0.033	0.033	0.014	0.044	0.032
MW-27	ND	ND	ND	ND	ND
MW-28	ND	ND	ND	ND	ND
MW-28A	ND	0.0026	0.0033	0.0034	0.0029
RW-1	0.027	0.011	0.029	0.016	0.032
RW-3	NA	NA	NA	NA	NA
RW-4	0.004	0.0037	0.0035	0.0054	0.41

Table 4
Twenty-four Month Summary of
1,2-Dichloroethene Concentrations Detected in Groundwater[1]
Qualifiers

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.
NA - Not analyzed.
ND - Not detected.

Section 4
Recovery System Performance

The groundwater recovery system is designed to use three recovery wells to capture affected groundwater. Water from these wells is pumped to an air stripper, where VOCs are removed, and treated water is discharged into Gashes Creek per National Pollutant Discharge Elimination System (NPDES) Permit No. NC0086088. During the April 2002 sampling event it was discovered that the pump in well RW-3 was not operating. Attempts to restart the pump were unsuccessful. Well RW-3 has a yield of about ½ gallon per minute (gpm). Such a low flow in combination with the amount of vertical head between the pump and the land surface results in stress on the pump and its electrical system. This, in turn, resulted in pump failure. The remaining two wells (RW-1 and RW-4) recover approximately 15 and 7 gpm, respectively, and account for nearly all the yield from the groundwater recovery system. Since recovery well RW-3 contributes very little to the overall yield of the groundwater recovery system, it has remained offline since April 2002 and groundwater recovery continues to include only wells RW-1 and RW-4.

The groundwater recovery system is now operating on a pulse pumping cycle of "on" for 6 weeks, followed by "off " for 6 weeks. This pulsed pumping cycle operational mode was initiated on November 11, 2002.

Influent and effluent to the stripper is sampled on a monthly basis during "on" pumping cycles. Effluent flow is recorded continuously. The analytical results for the influent and effluent are used along with the flow data to estimate the amount of trichloroethene removed each month. Monthly volumes of treated groundwater for the past twelve months (ending October 31, 2005) and the estimated amount of TCE removed since system startup in March 1998 through October 2005 are summarized in Table 5. The estimated amount of groundwater that was recovered and treated during May 2005 through October 2005 is 3.54 million gallons. It is estimated that over 38 pounds of TCE were removed during May 2005 through October 2005. As shown on Table 5, the amount of water treated and TCE removed varied from month to month during this time period. This variance is due to the number of days that the system was in operation each month.

Table 6 summarizes the amount of water treated and the estimated amount of TCE removed each year since operation of the recovery system began in March 1998. For the years 1998 through 2002, the estimated amount of TCE removed declined from 167.7 pounds per year to 31.47 pounds per year. After pulse pumping of the system began in November 2002, the

estimated amount of TCE increased to 38.3 pounds per year in 2003, even further to 55.0 pounds per year in 2004, and to 70.3 pounds in 2005 (through October 2005). While pulse pumping of the groundwater recovery system increased the amount of TCE removed, the volume of water removed during both years is significantly less than removed during years of full operation.

Table 5
Operations Summary for the Last 12-Month Period, Ending October 31, 2005

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
10/04	27	1.11	10.2	27 days of operation for month of October
11/04	18	0.66	6.1	18 days of operation for month of November
12/04	0	0	0(1)	System off-line for month of December
01/05	29	1.18	13.7	29 days of operation for month of January
02/05	16	0.58	6.8	16 days of operation for month of February
03/05	0	0	0(1)	System off-line for month of March
04/05	26	1.02	11.0	26 days of operation for month of April
05/05	16	0.596	5	16 days of normal operation for month of May
06/05	0	0	0(1)	System off line for the month of June
07/05	26	1.076	10.8	Off-line 5 days – power failure
08/05	14	0.606	6.1	14 days of normal operation for August
09/05	0	0	0(1)	System off-line for the month of September
10/05	29	1.265	16.9	29 days of normal operation for October
	2,217	**85.26**	**564.34**	**Total since system startup**

(1) Indicates system was off-line for entire month.

Table 6
Operations Summary by Year

YEAR	WATER TREATED (million gallons)	TCE REMOVED (pounds)
1998	14.82	167.7
1999	16.33	75.2
2000	12.067	81.77
2001	12.53	45.1
2002	10.7	31.47
2003	6.46	38.3
2004	6.99	55.0
2005 (1)	6.32	70.3

(1) January through October 2005

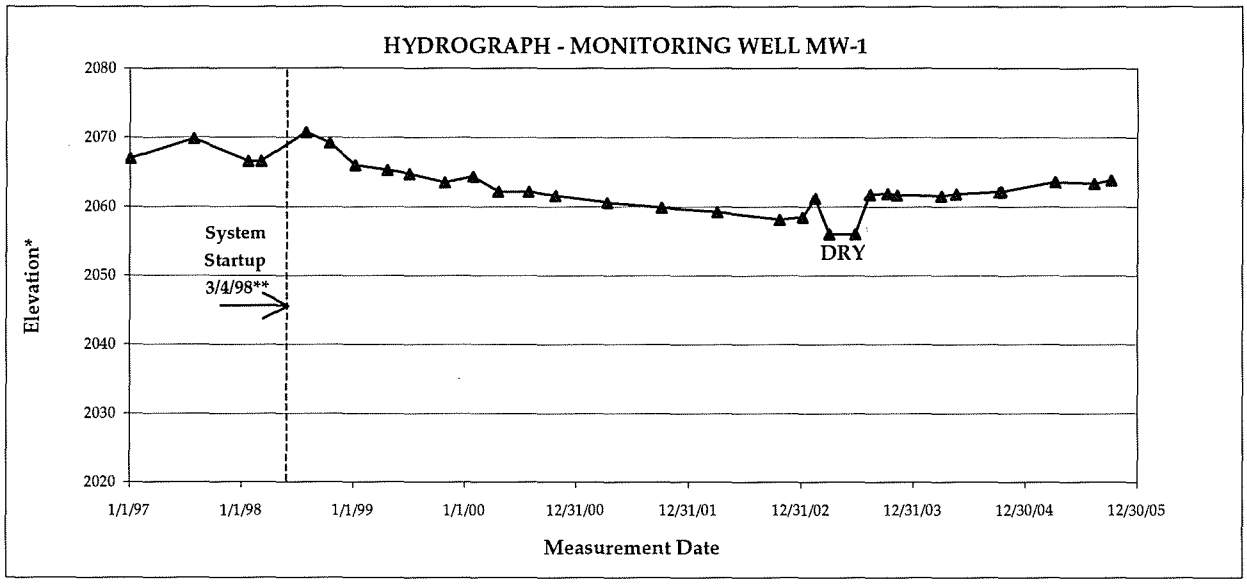
Section 5
Conclusions and Recommendations

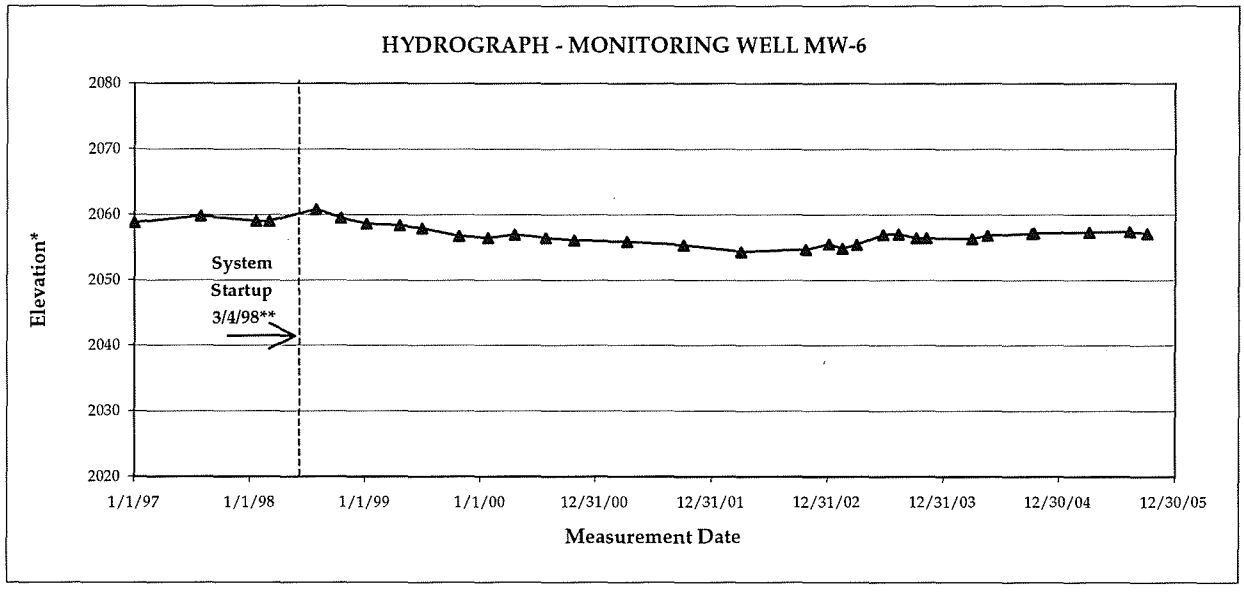
Data gathered during the past semiannual monitoring period indicates that the groundwater recovery system is operating effectively. Pulse pumping of the system appears to have increased the volume of VOCs removed annually while decreasing the volume of groundwater removed. Pulse pumping of the groundwater recovery system continues to save costs associated with operations and maintenance of the system. Recovered groundwater continues to be treated and discharged to Gashes Creek in compliance with the NPDES permit.

Based on these conclusions, RMT offers the following recommendations:

- Continue monitoring groundwater and surface water quality on a semiannual basis.
- Continue operating the groundwater recovery and treatment system on a 6-week on/ 6-week off pulse cycle.

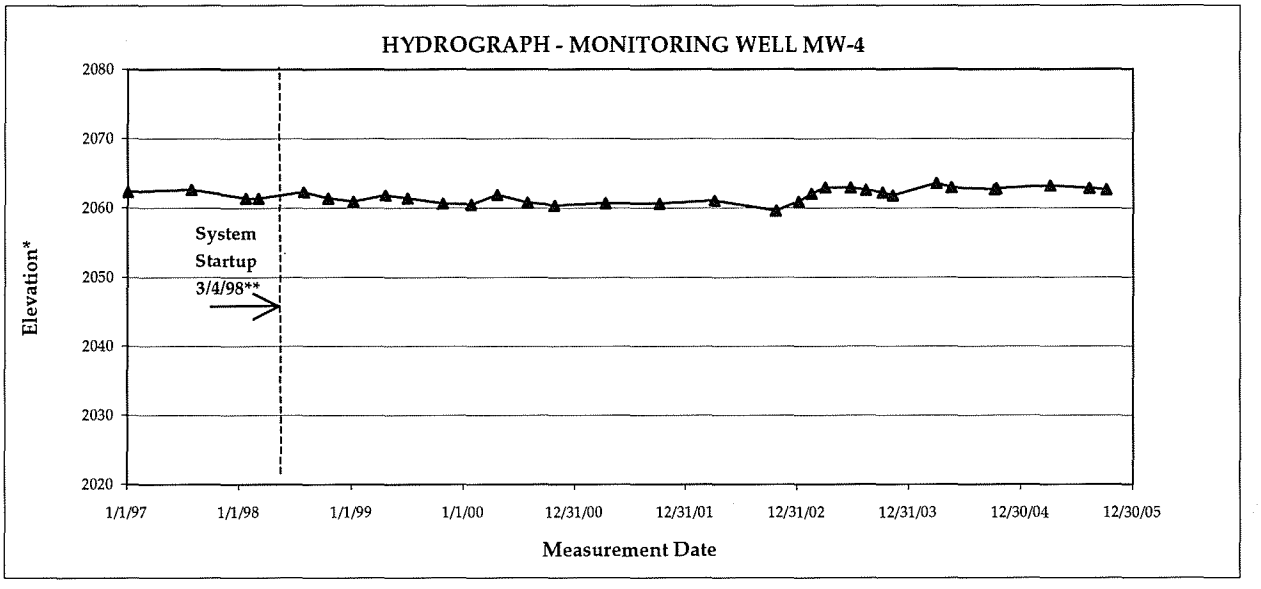
Appendix A
Hydrographs for Bedrock Wells

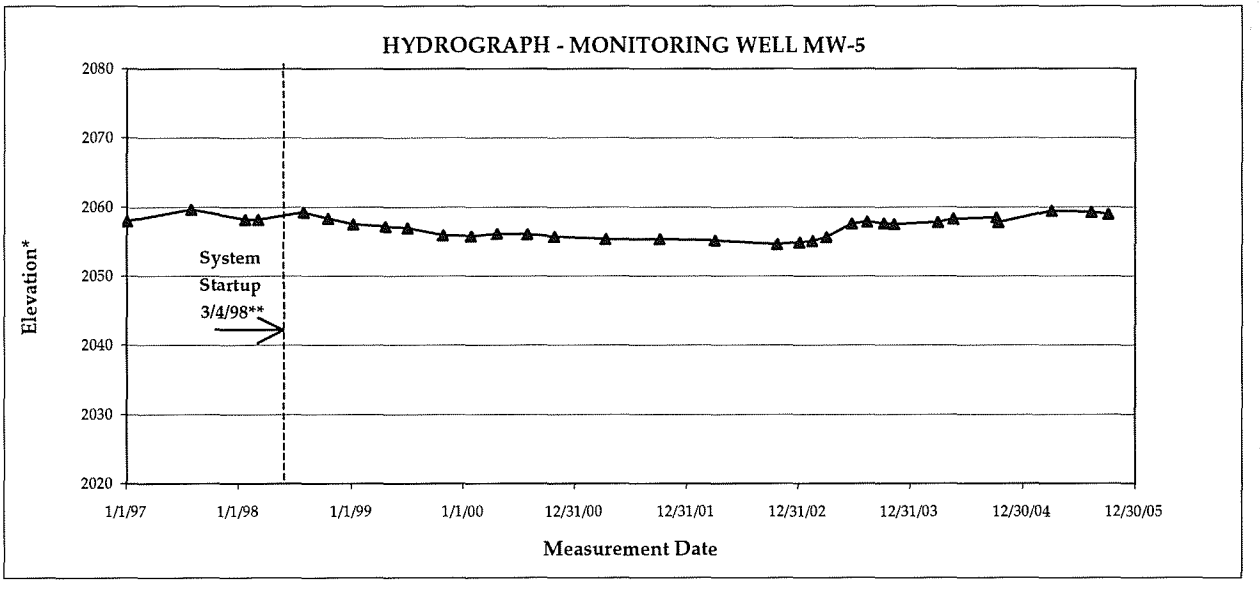




* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up





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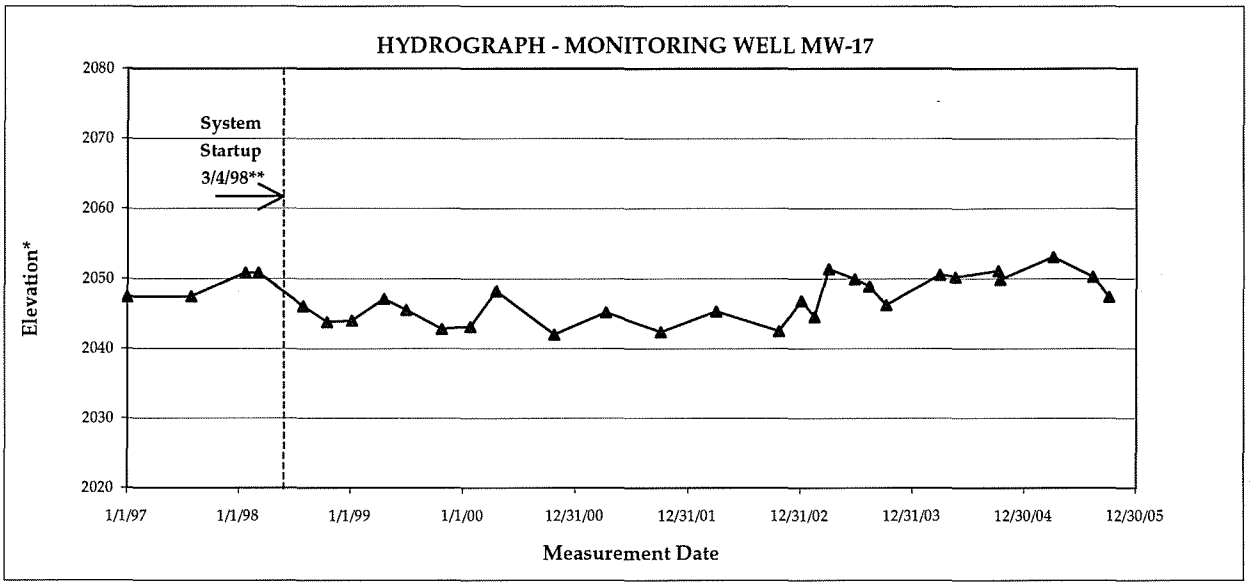

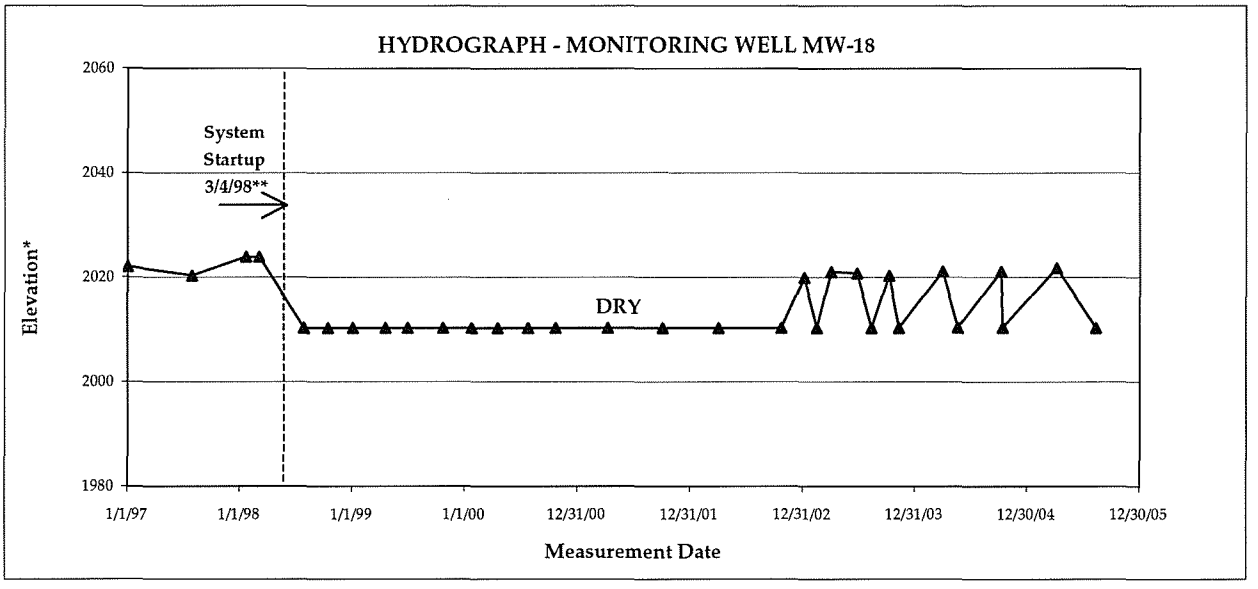

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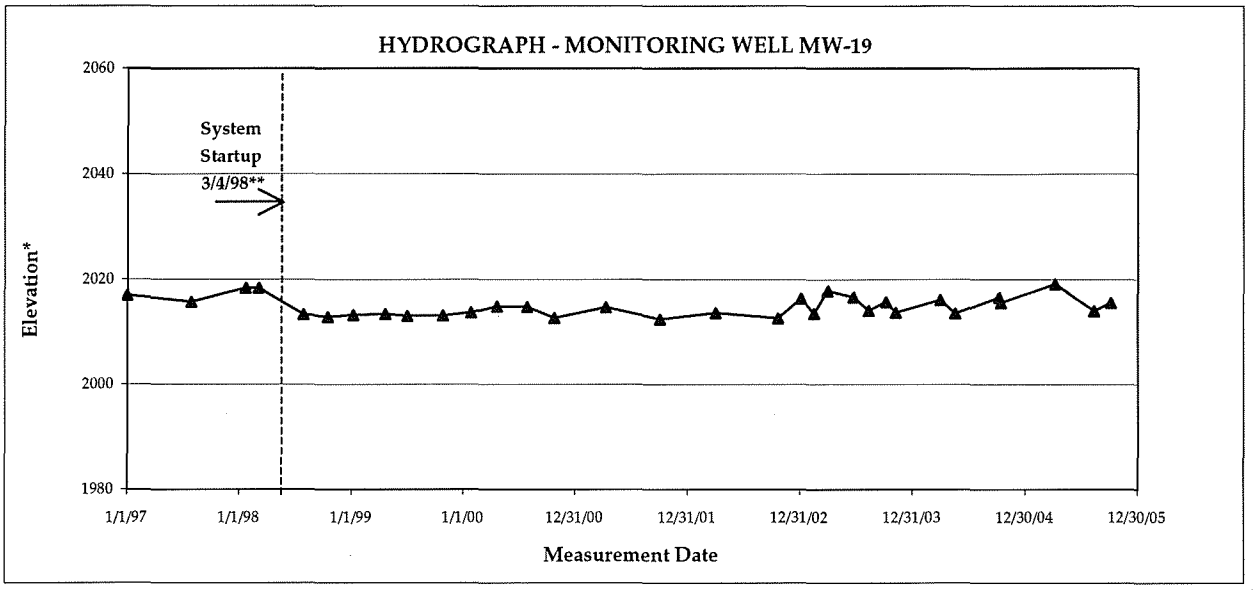

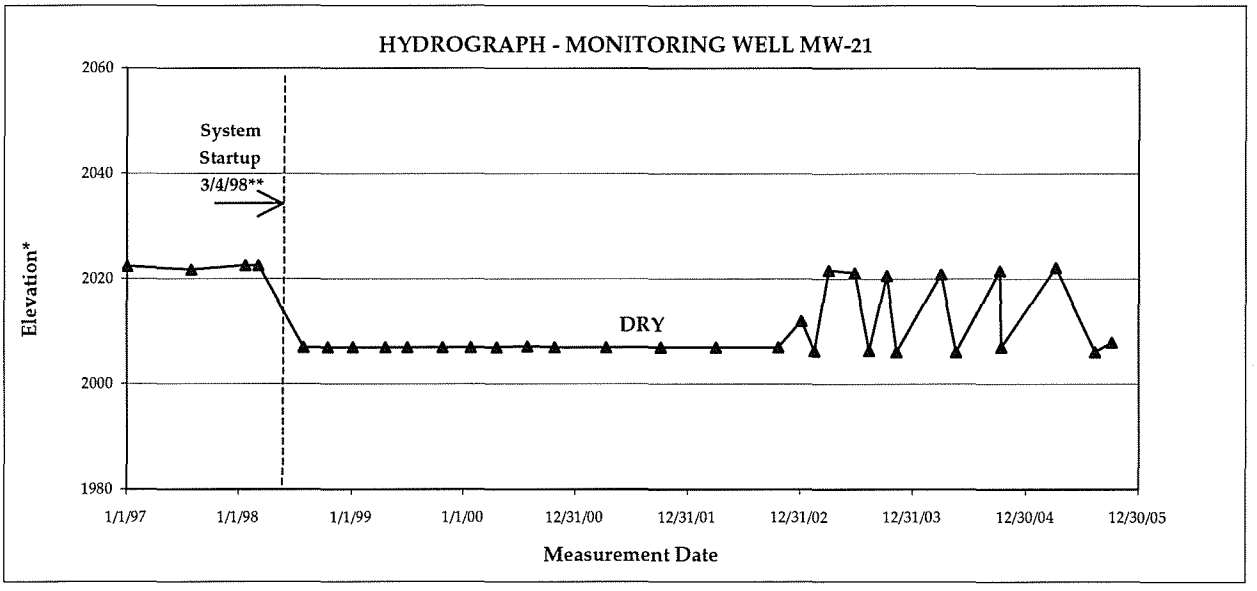

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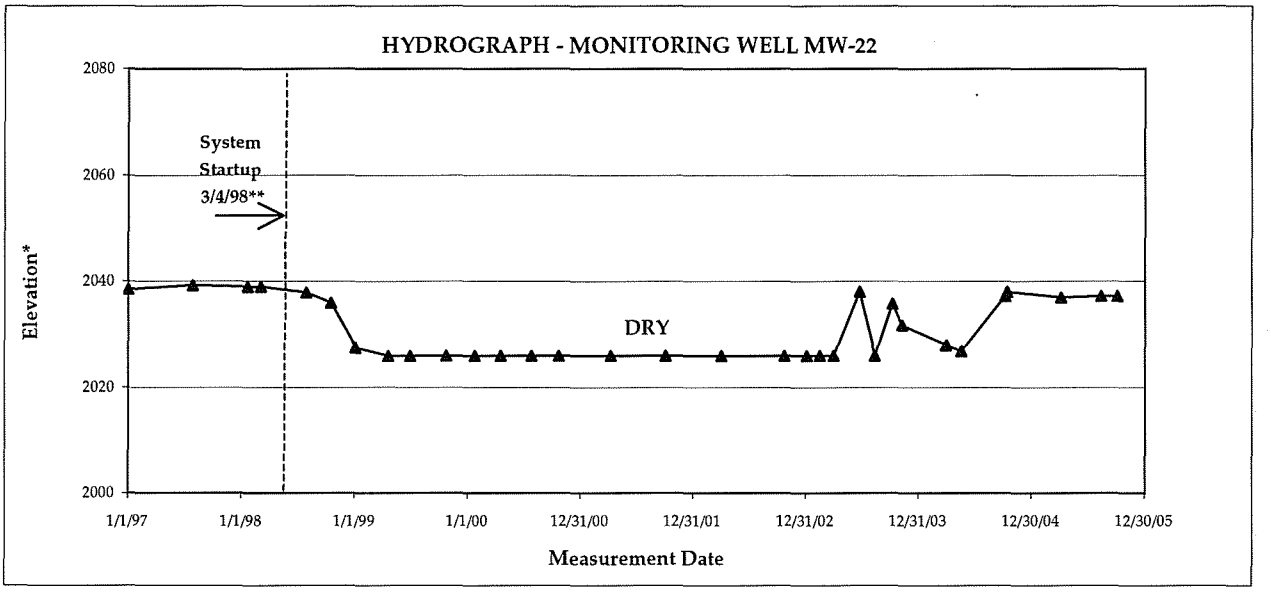

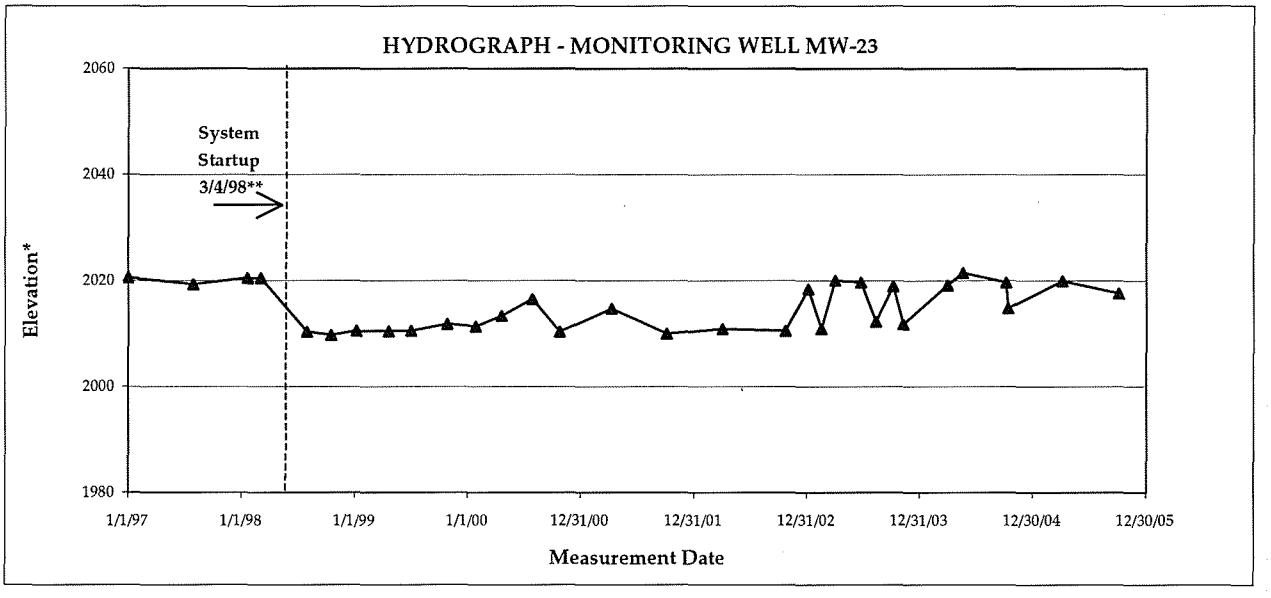

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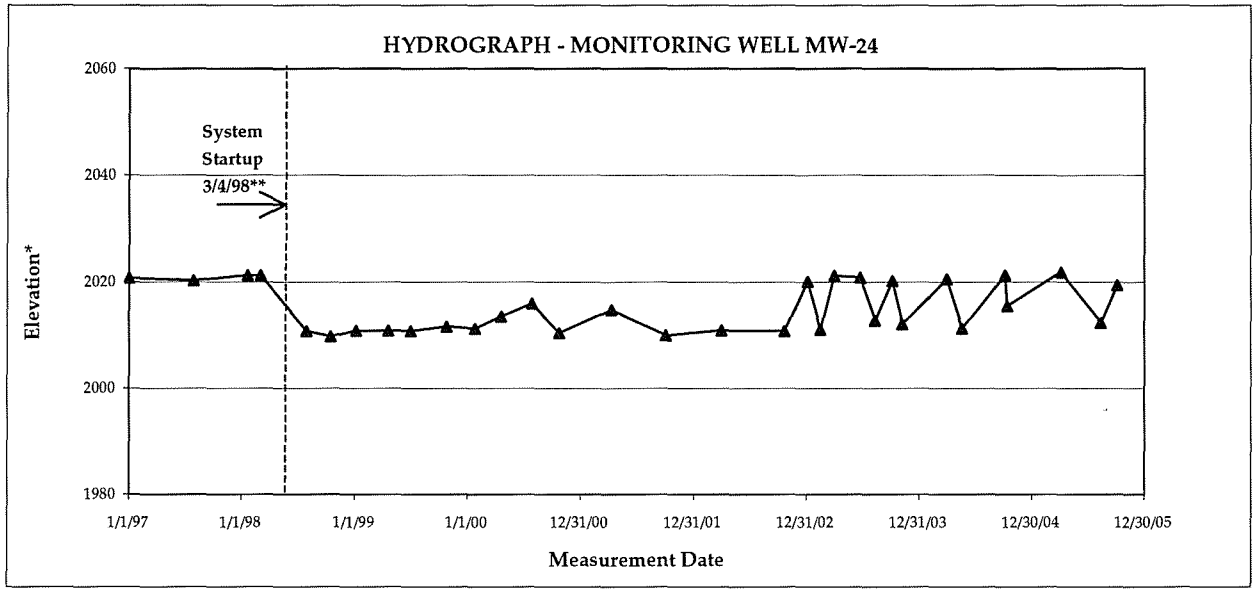

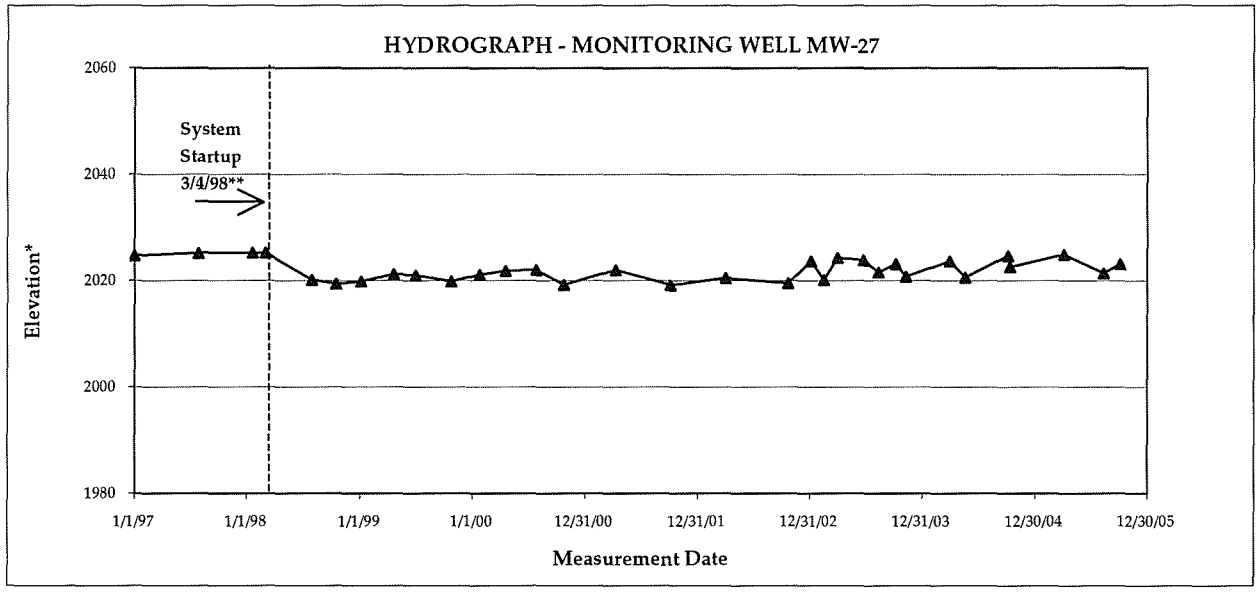

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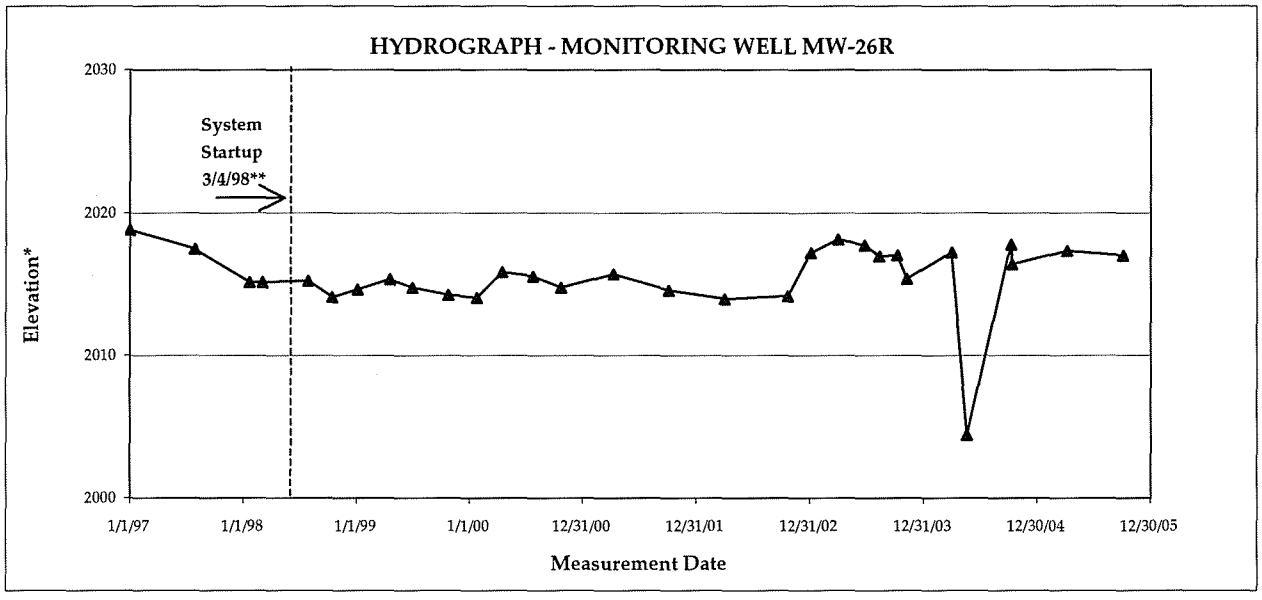

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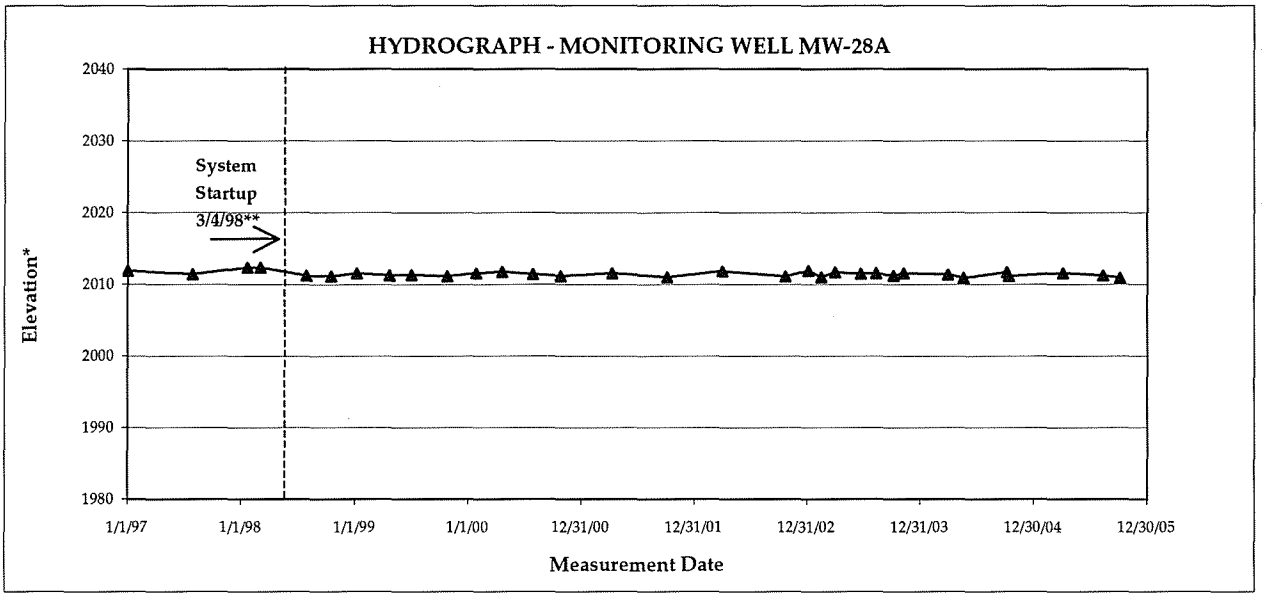

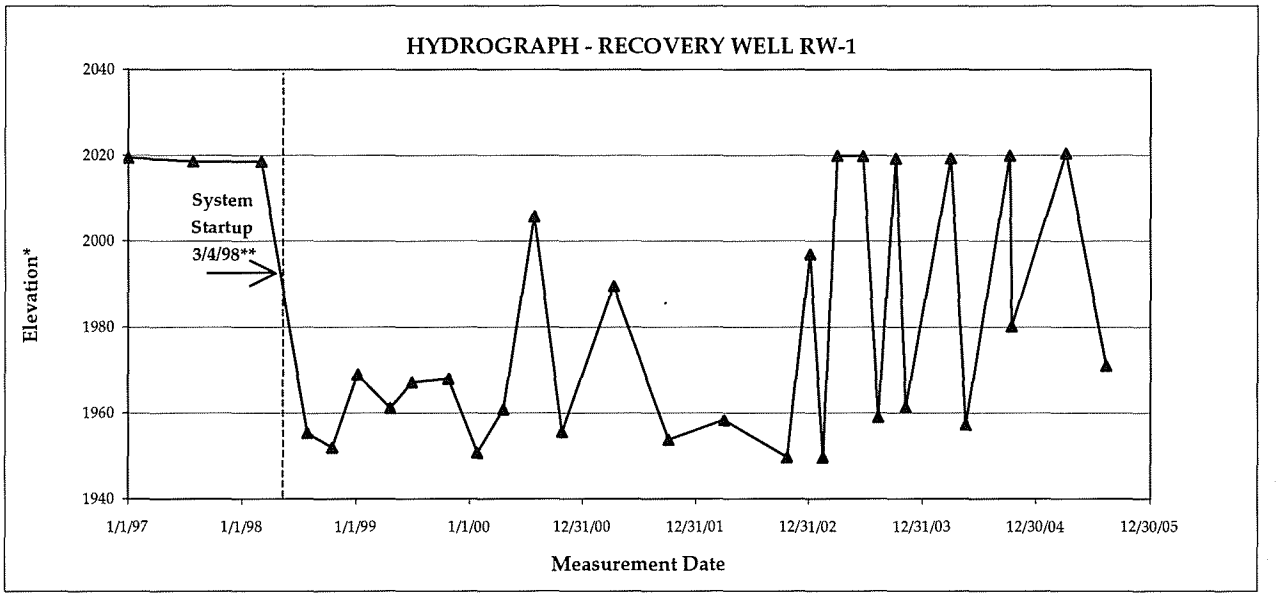

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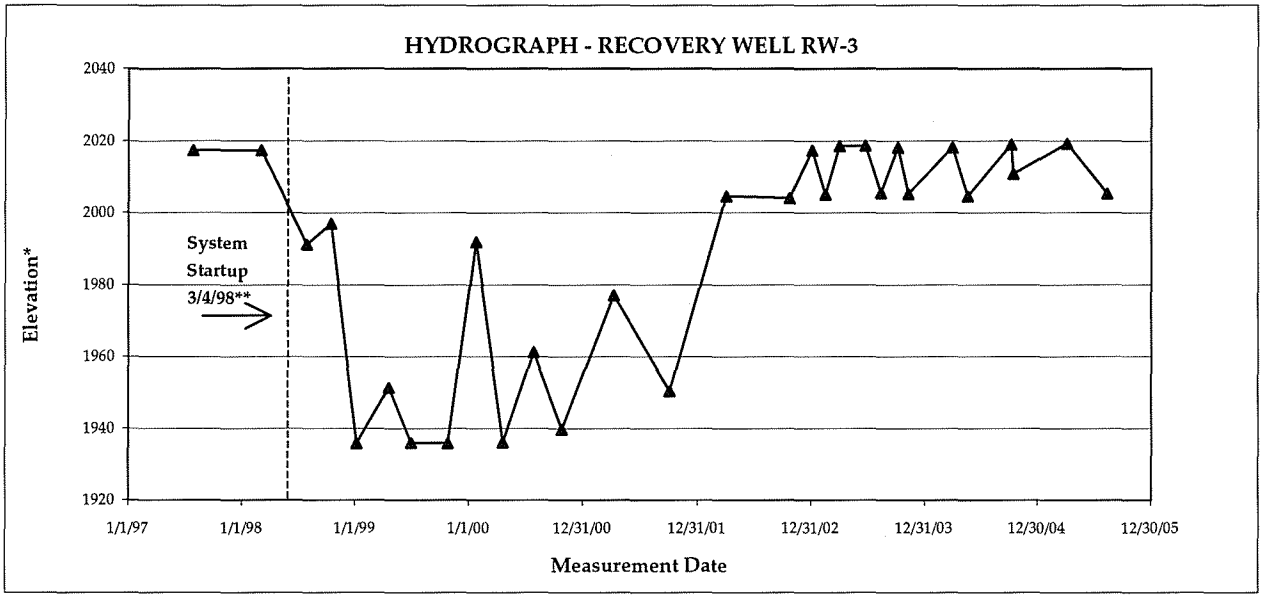

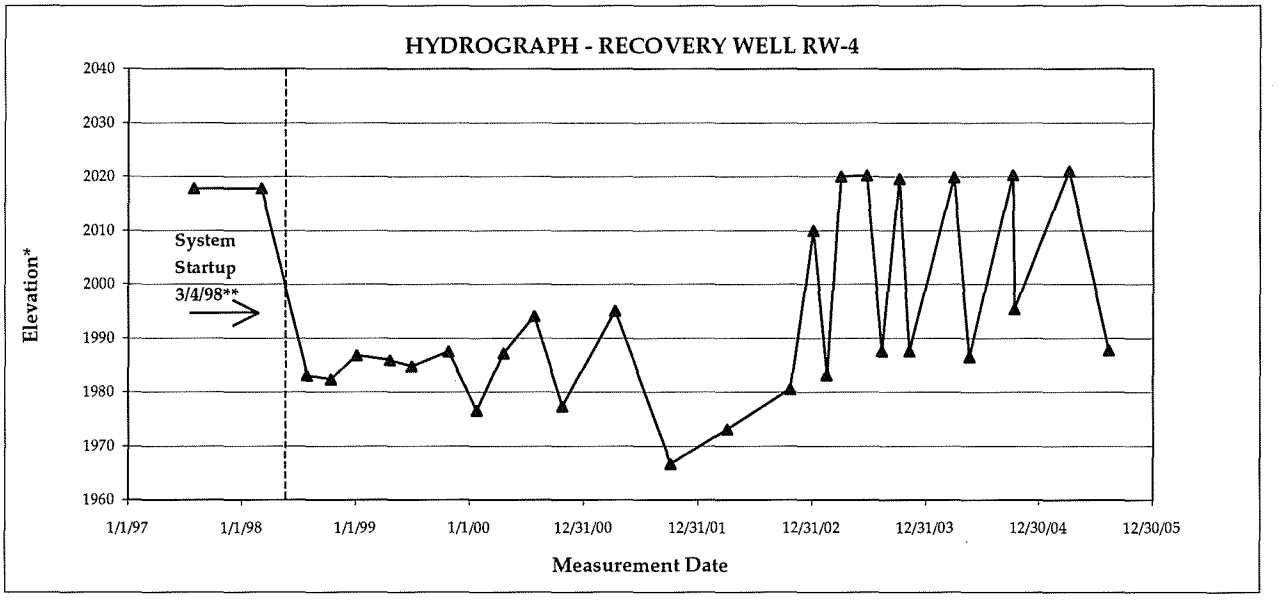

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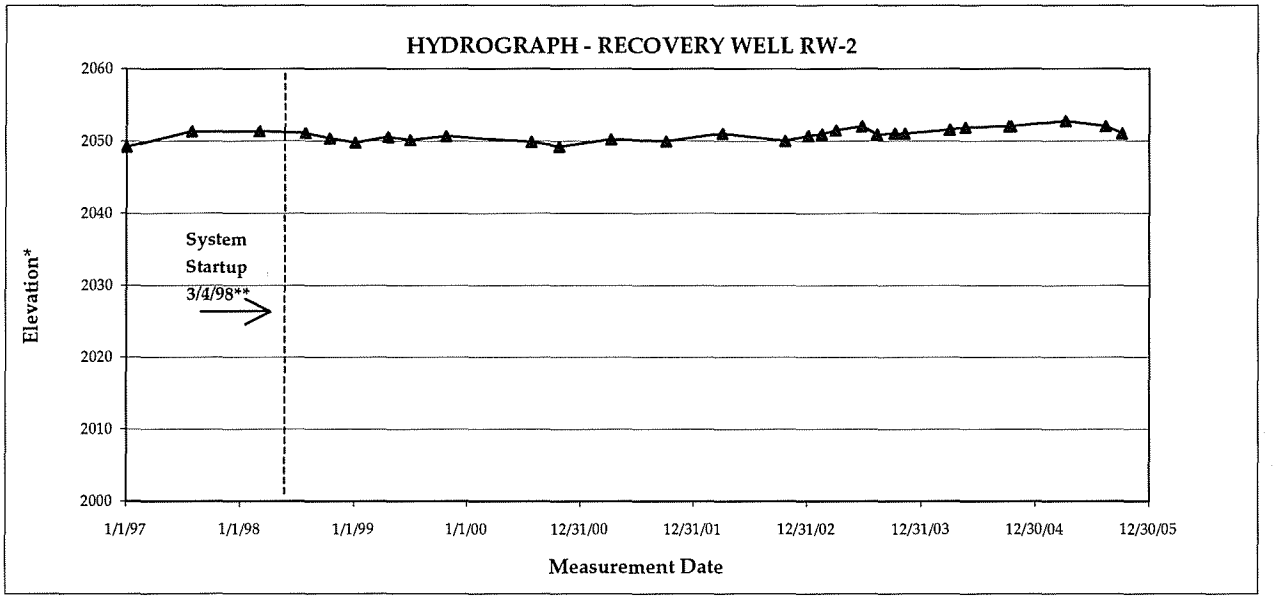

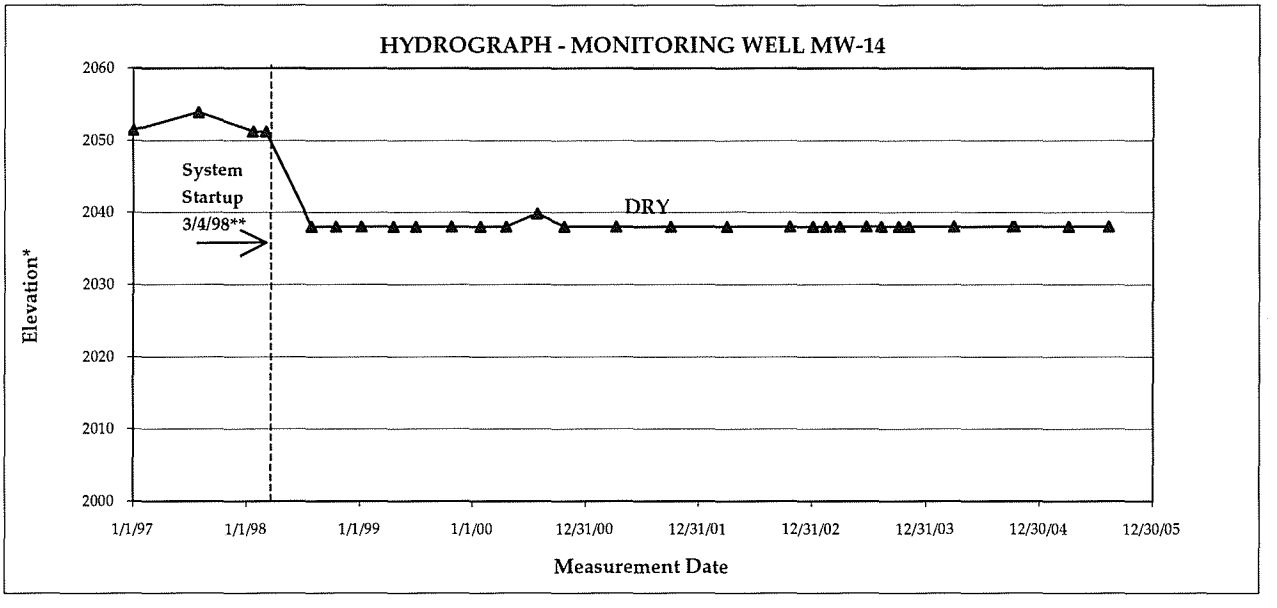

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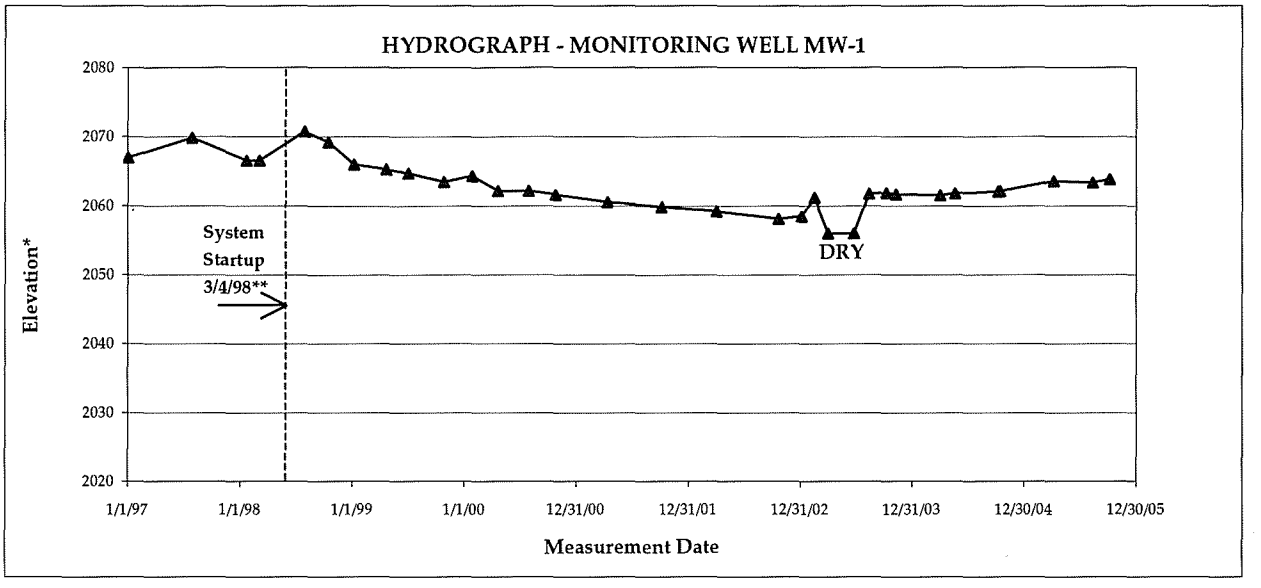

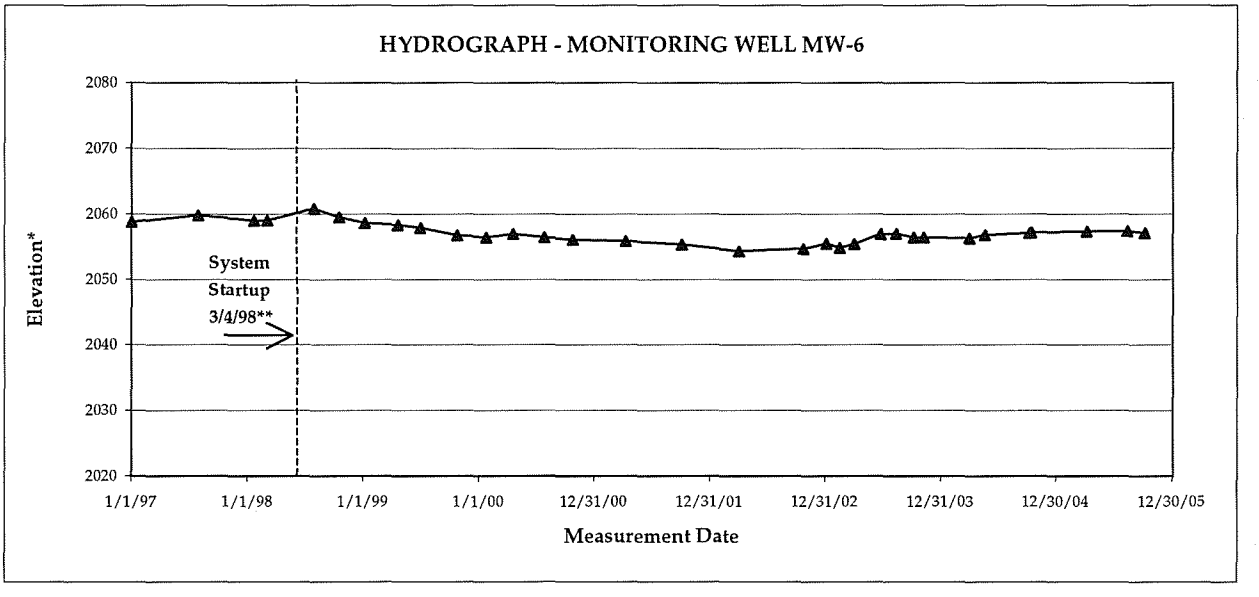

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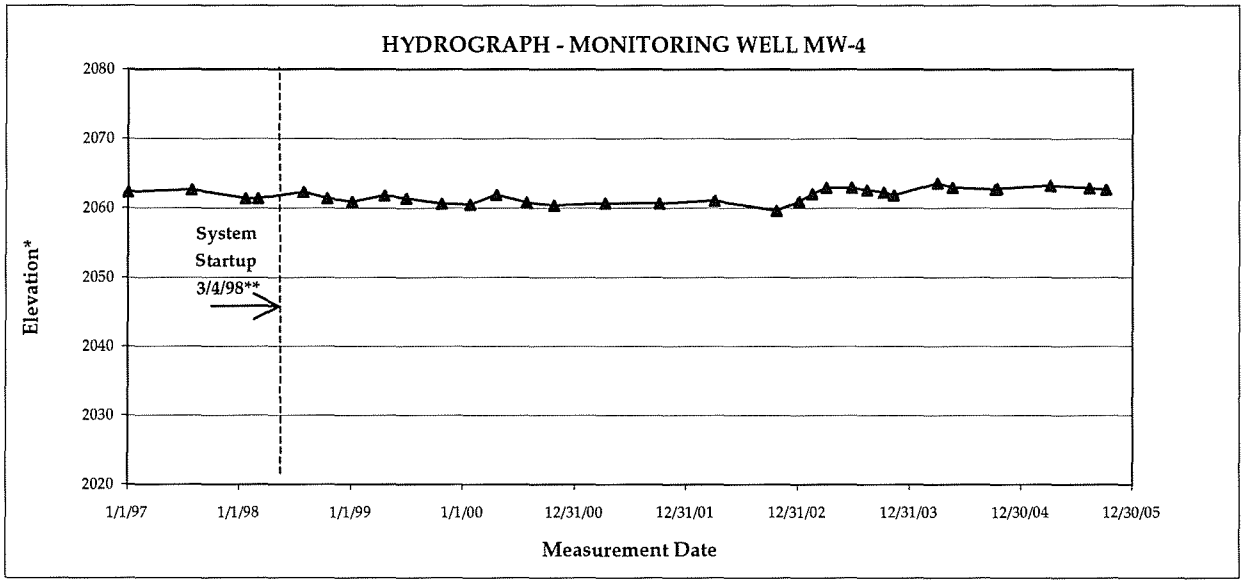

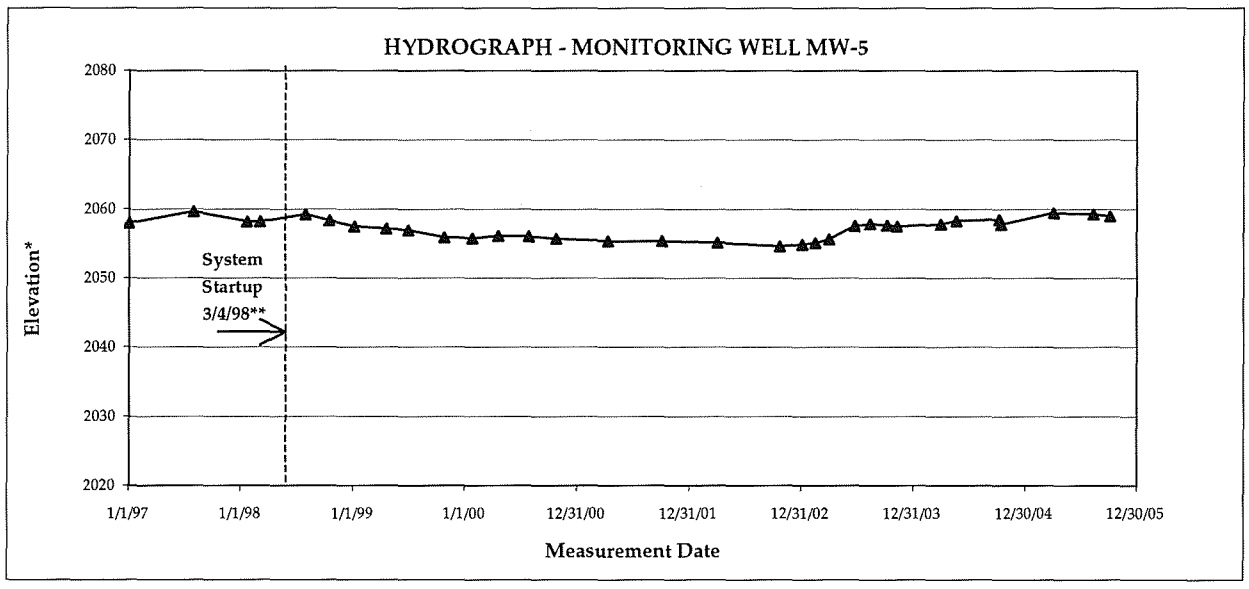

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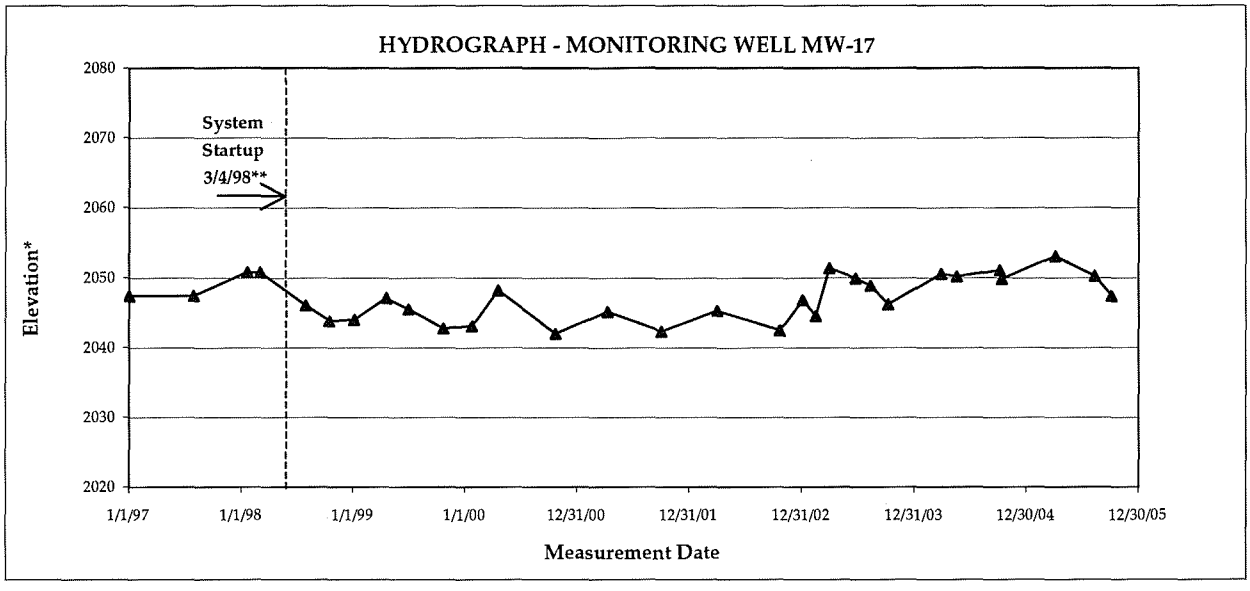

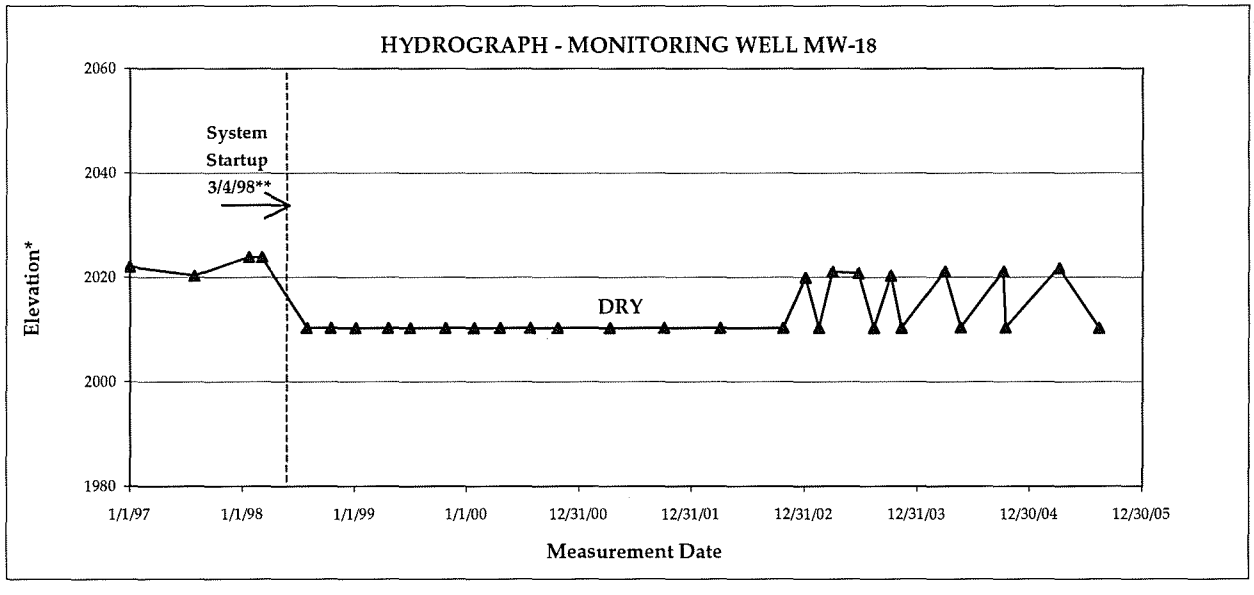

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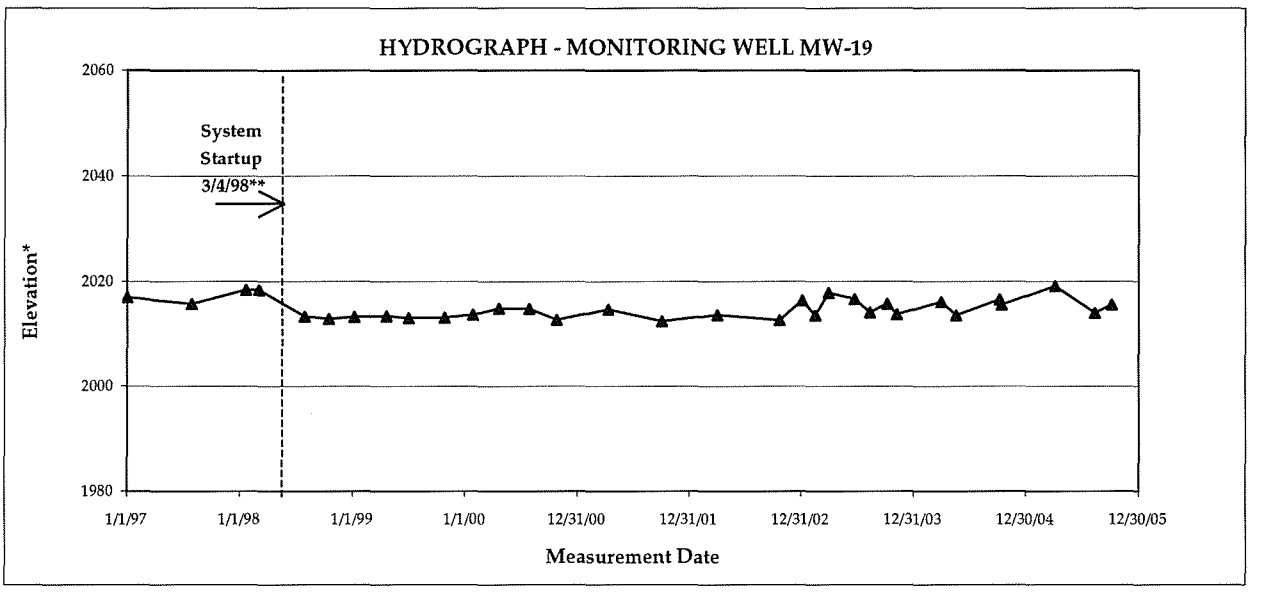

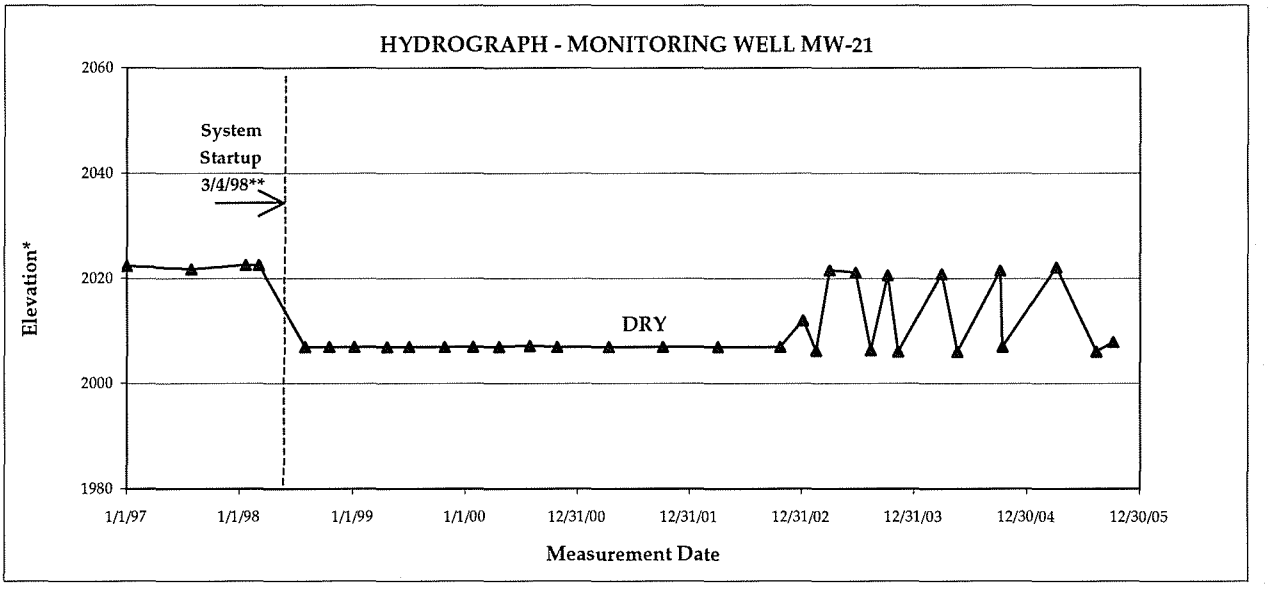

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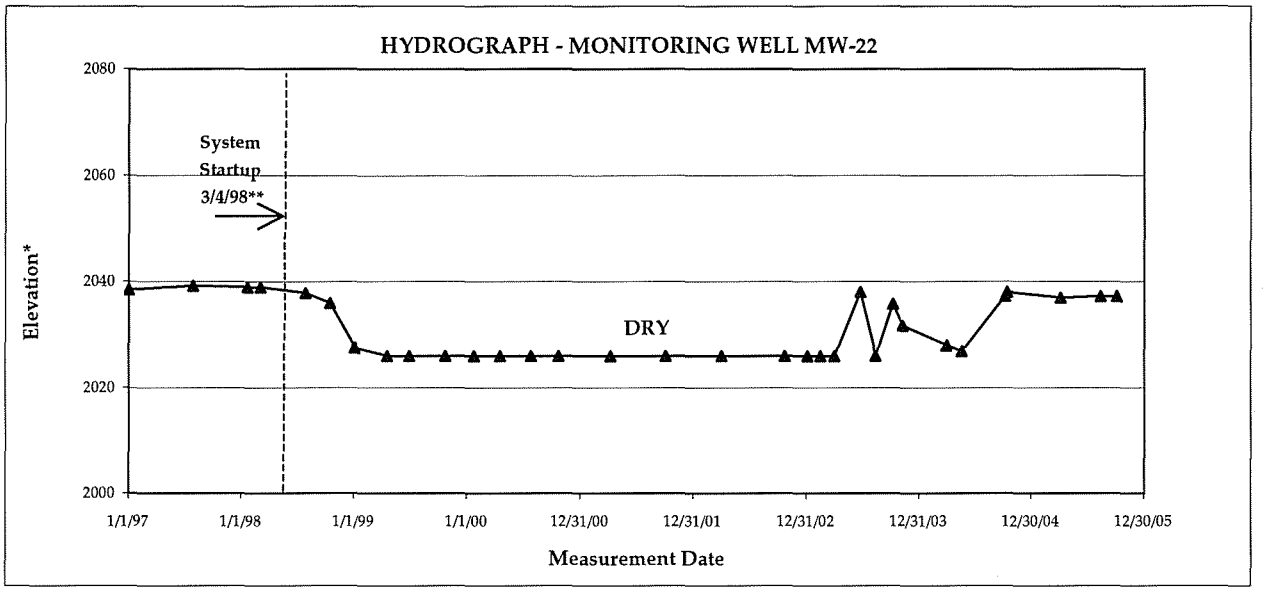

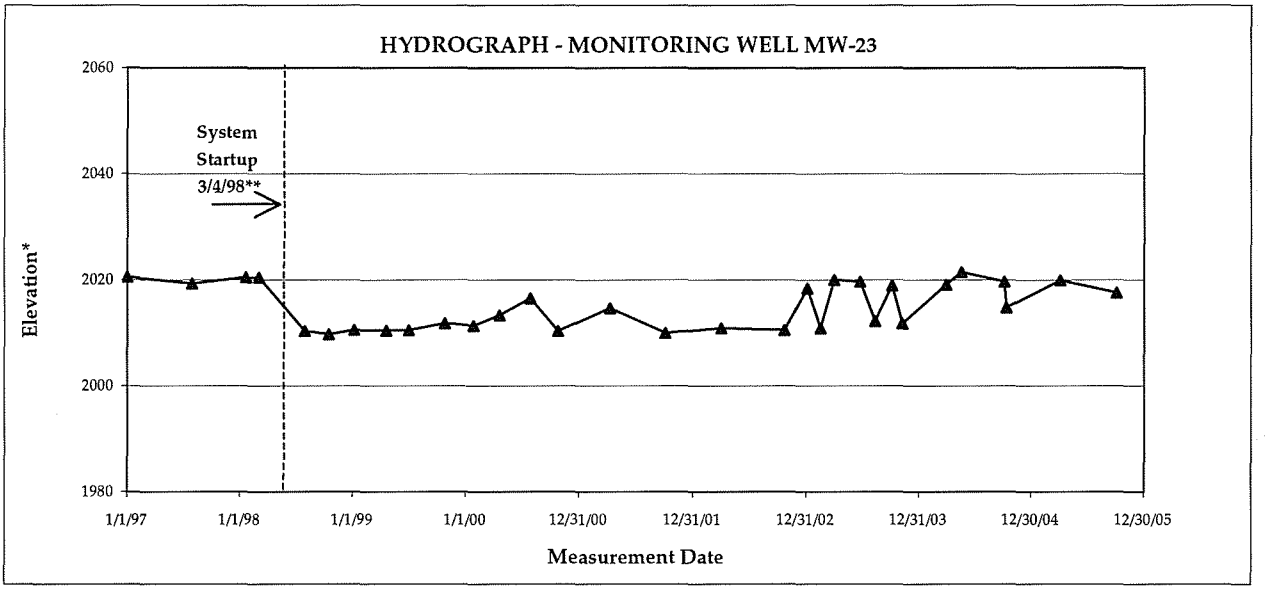

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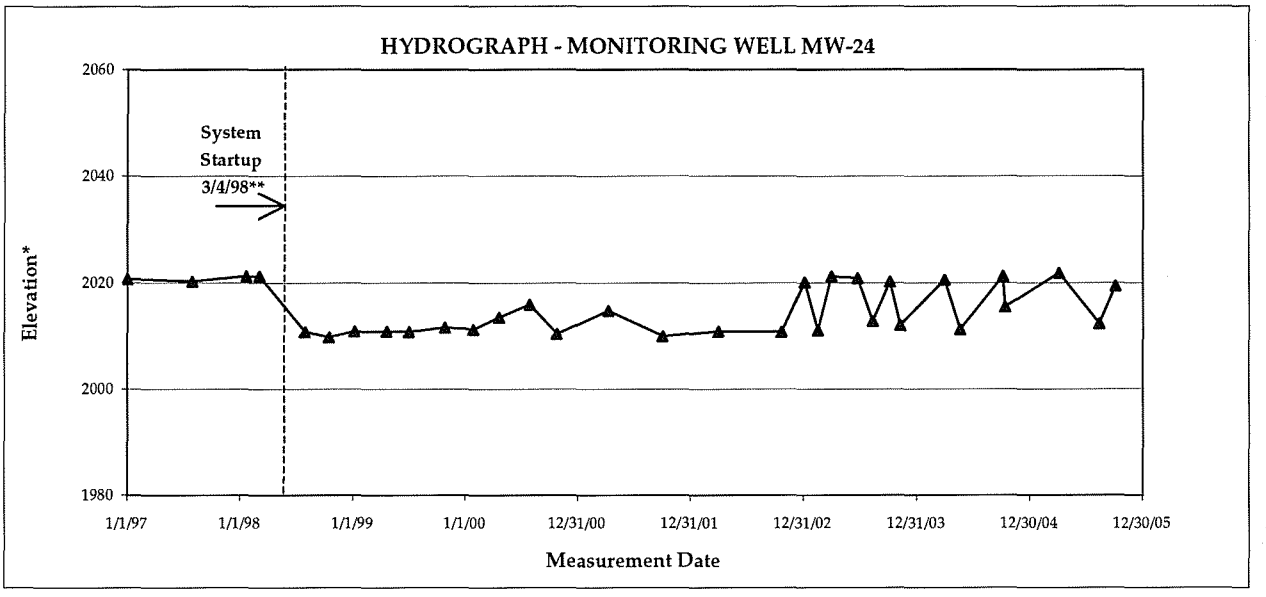

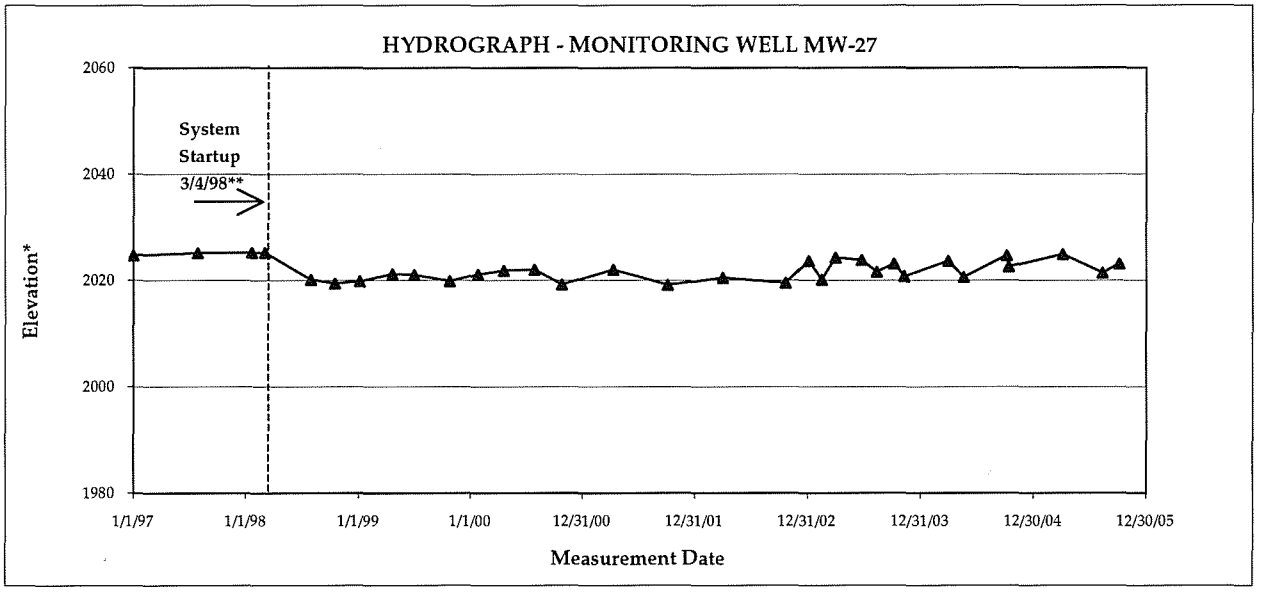

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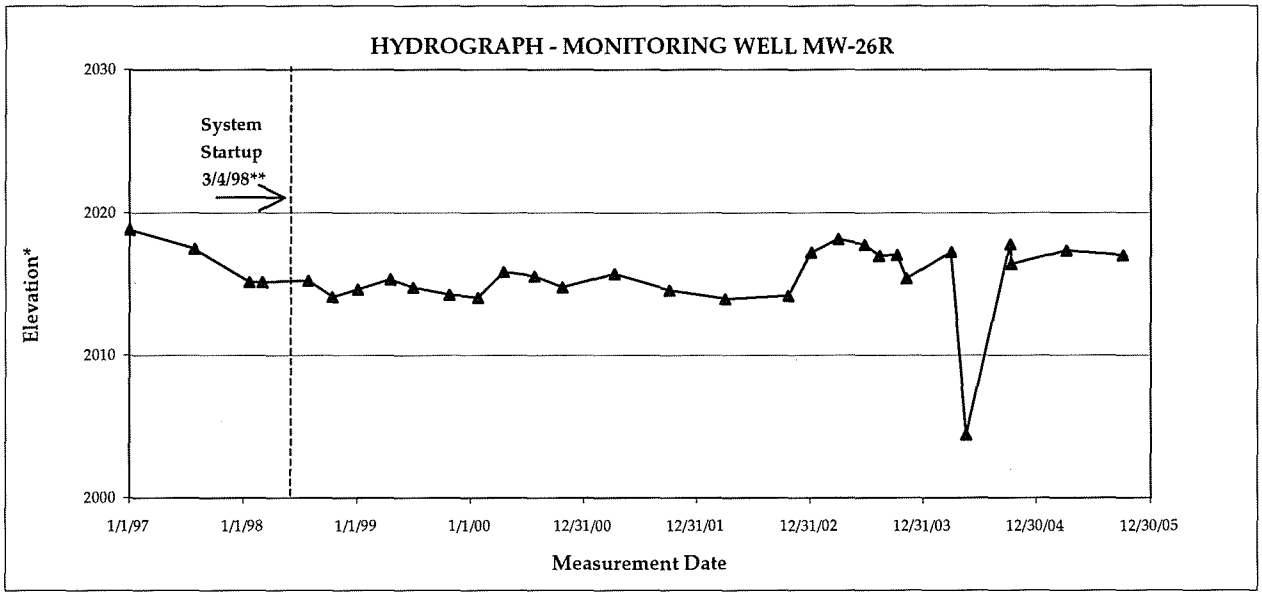

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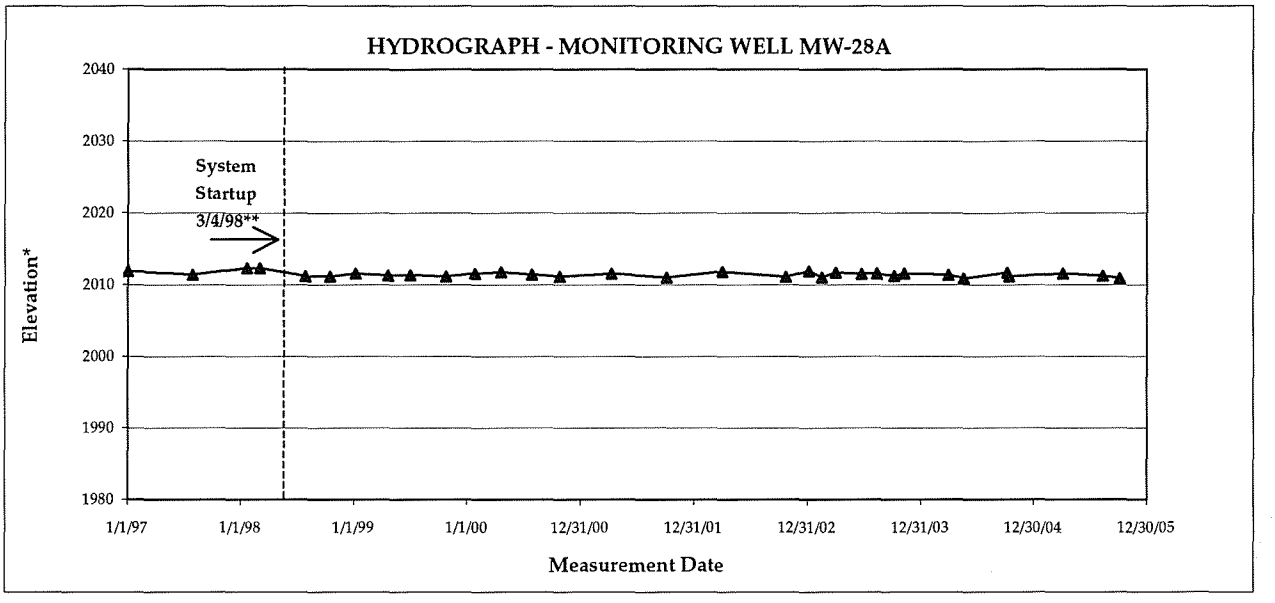

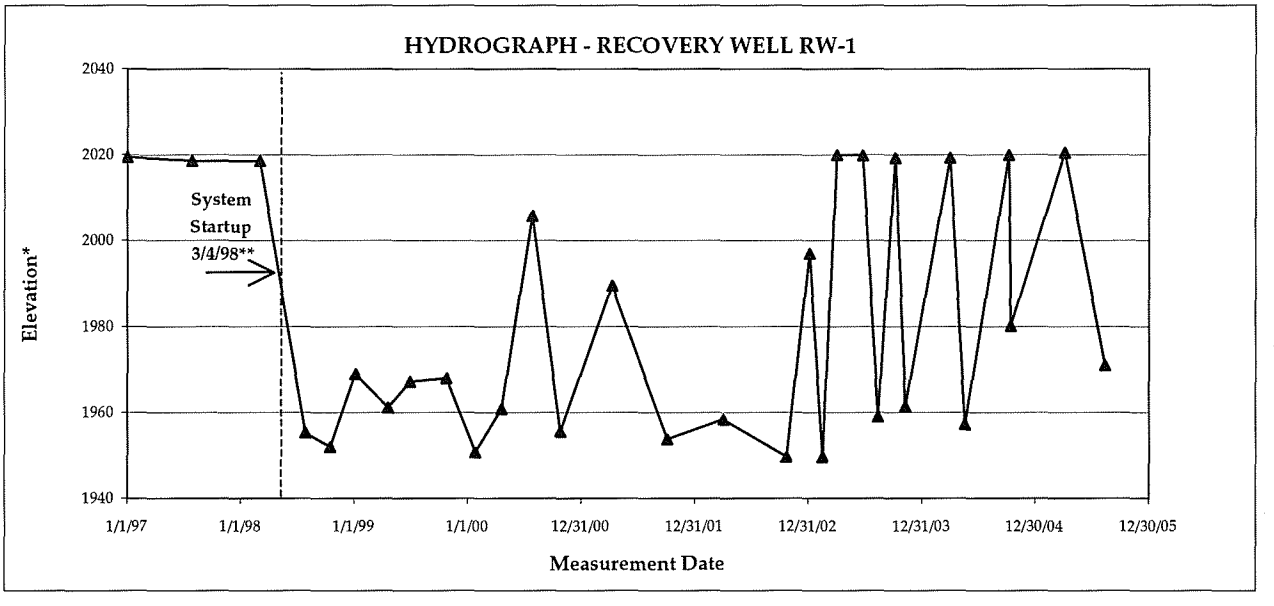

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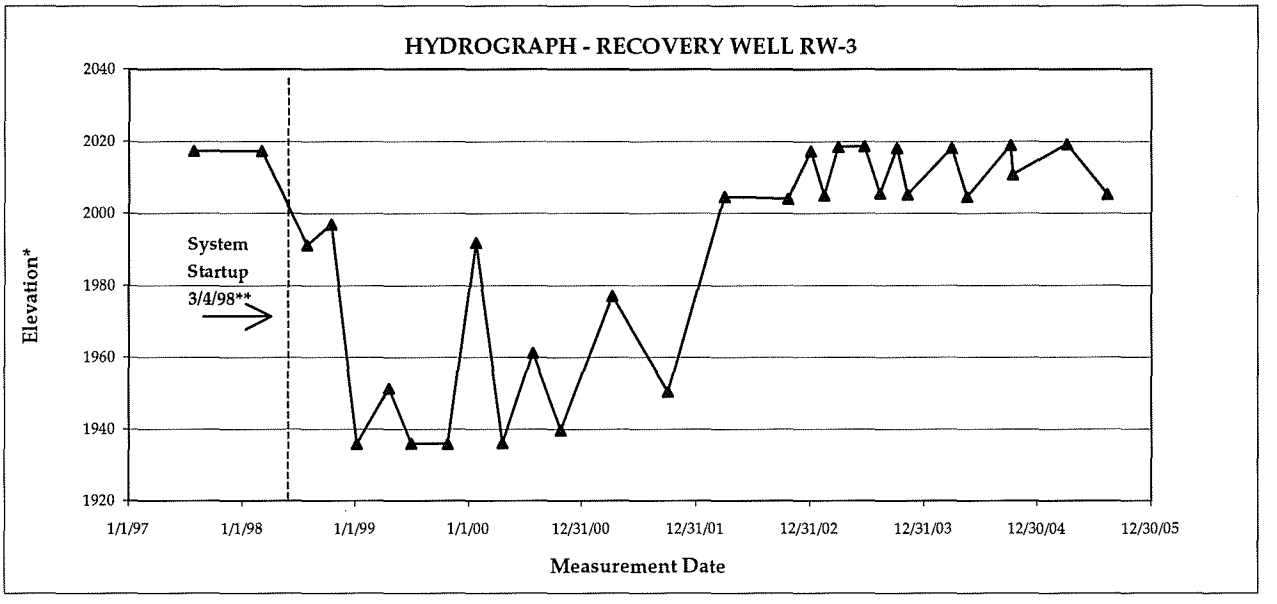

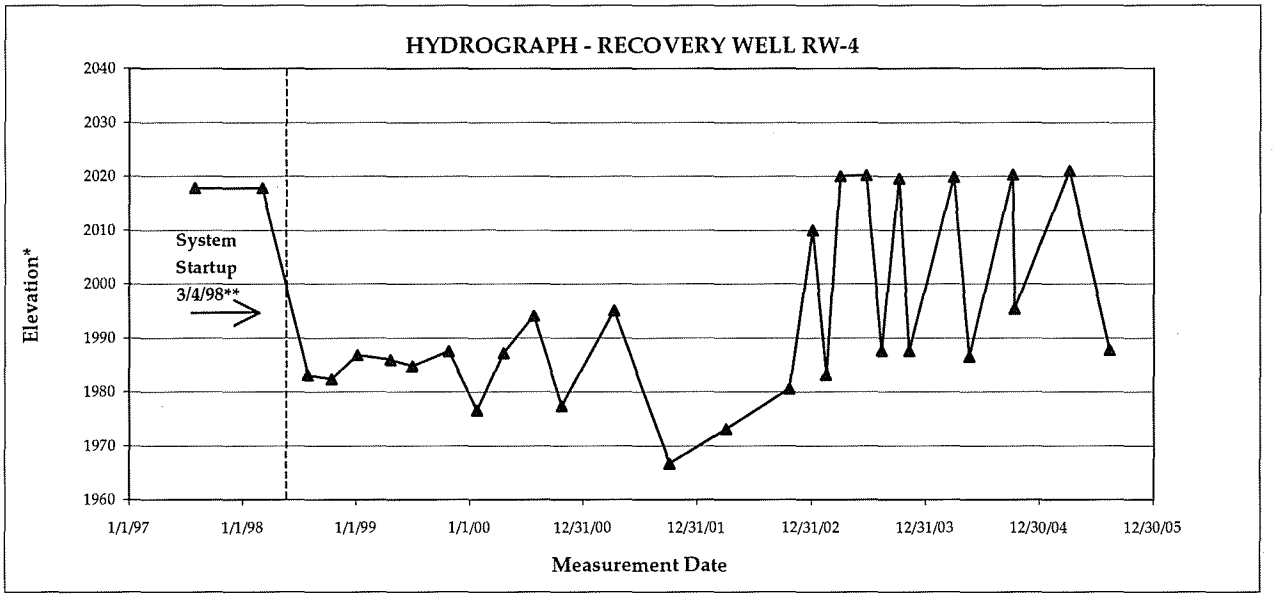

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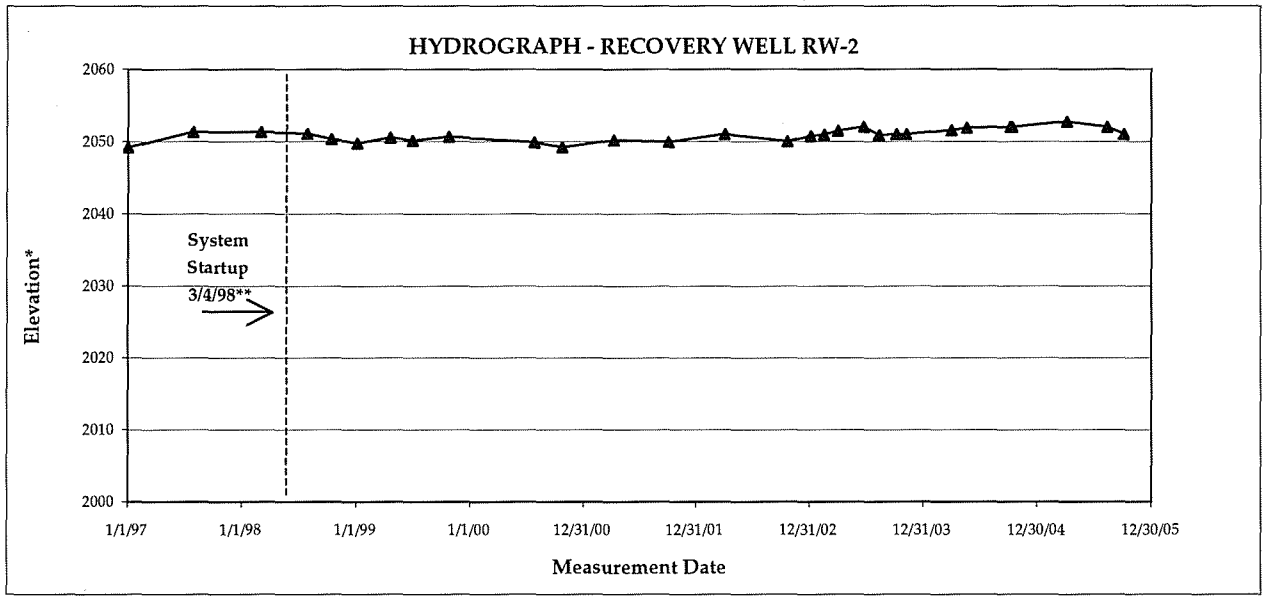

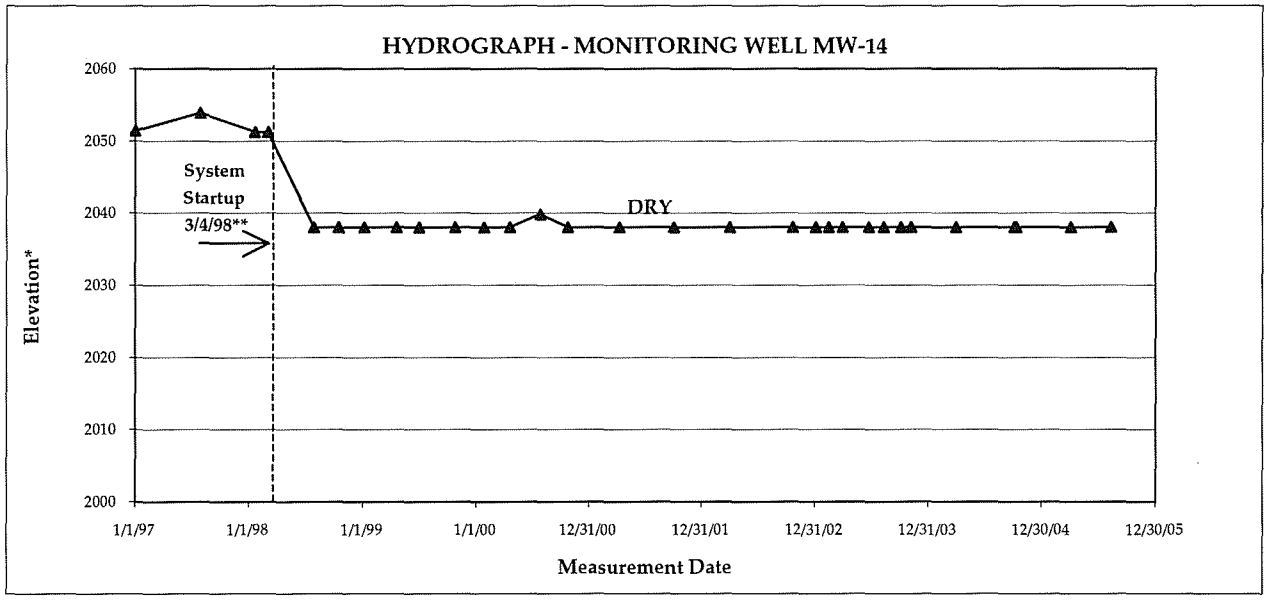

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Appendix B
Laboratory Analytical Reports

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2225 Riverside Drive
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Phone: 828.254.7176
Fax: 828.252.4618

File, Data Mgmt, DOM

October 28, 2005

Mr. Dan Madison
RMT
30 Patewood Drive
Suite 100
Greenville, SC 29615

RE: Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Dear Mr. Madison:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Richard Swartz
Richard.Swartz@pacelabs.com
Project Manager

Enclosures

CoC - signed; temp. - OK; MBLKS, TBLK-05401, & RBLK-0540 - clean; Surr recs - OK; LCS recs - OK; MS/MSD recs & RPDs - OK (SW-2, MW-6 & MW-13 SPIKED);
DU-05401 is field dup of MW-28A - RPDs OK
DU-05402 " " " " RW-4 - RPDs OK
RZH 11/2/05

Asheville Certification IDs	
NC Wastewater	40
NC Drinking Water	37712
SC	99030
FL NELAP	E87648

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Charlotte Certification IDs	
NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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SAMPLE SUMMARY

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
92104964-001	926197443	TBLK 05401	Water	10/04/05	10/10/05 10:00
92104964-002	926197484	MW-28	Water	10/04/05 09:50	10/10/05 10:00
92104964-003	926197492	MW-28A	Water	10/04/05 10:20	10/10/05 10:00
92104964-004	926197500	MW-20	Water	10/04/05 10:45	10/10/05 10:00
92104964-005	926197518	MW-12	Water	10/04/05 11:10	10/10/05 10:00
92104964-006	926197526	MW-13	Water	10/04/05 12:25	10/10/05 10:00
92104964-007	926197534	MW-17	Water	10/04/05 12:55	10/10/05 10:00
92104964-008	926197542	MW-15	Water	10/04/05 13:20	10/10/05 10:00
92104964-009	926197559	MW-16	Water	10/04/05 13:40	10/10/05 10:00
92104964-010	926197567	DU-05401	Water	10/04/05	10/10/05 10:00
92104964-011	926197575	MW-16A	Water	10/04/05 14:00	10/10/05 10:00
92104964-012	926197781	MW-26R	Water	10/04/05 14:30	10/10/05 10:00
92104964-013	926197799	MW-23	Water	10/04/05 14:55	10/10/05 10:00
92104964-014	926197807	RBLK-05401	Water	10/05/05 09:25	10/10/05 10:00
92104964-015	926197815	MW-15A	Water	10/05/05 09:50	10/10/05 10:00
92104964-016	926197823	SW-4	Water	10/05/05 10:05	10/10/05 10:00
92104964-017	926197831	SW-3	Water	10/05/05 10:20	10/10/05 10:00
92104964-018	926197849	SW-2	Water	10/05/05 10:35	10/10/05 10:00
92104964-019	926197856	SW-1	Water	10/05/05 10:50	10/10/05 10:00
92104964-020	926197864	MW-4	Water	10/05/05 12:30	10/10/05 10:00
92104964-021	926197872	MW-5	Water	10/05/05 13:00	10/10/05 10:00
92104964-022	926197880	MW-24	Water	10/05/05 13:30	10/10/05 10:00
92104964-023	926197898	RW-4	Water	10/05/05 13:40	10/10/05 10:00
92104964-024	926197906	RW-1	Water	10/05/05 13:50	10/10/05 10:00
92104964-025	926197914	MW-1	Water	10/06/05 09:35	10/10/05 10:00
92104964-026	926197922	MW-10	Water	10/06/05 10:05	10/10/05 10:00
92104964-027	926197930	MW-9	Water	10/06/05 10:25	10/10/05 10:00
92104964-028	926197948	MW-8	Water	10/06/05 10:45	10/10/05 10:00
92104964-029	926197955	MW-7	Water	10/06/05 11:10	10/10/05 10:00
92104964-030	926197963	DU-05402	Water	10/06/05	10/10/05 10:00
92104964-031	926197971	MW-2	Water	10/06/05 11:30	10/10/05 10:00
92104964-032	926197989	MW-6	Water	10/06/05 11:50	10/10/05 10:00
92104964-033	926197997	MW-27	Water	10/06/05 11:50	10/10/05 10:00
92104964-034	926198003	MW-11	Water	10/06/05 13:40	10/10/05 10:00
92104964-035	926198011	MW-19	Water	10/06/05 14:00	10/10/05 10:00
92104964-036	926198029	MW-22	Water	10/06/05 14:25	10/10/05 10:00

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SAMPLE ANALYTE COUNT

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
92104964-001	926197443	TBLK 05401	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-002	926197484	MW-28	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-003	926197492	MW-28A	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-004	926197500	MW-20	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-005	926197518	MW-12	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-006	926197526	MW-13	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-007	926197534	MW-17	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-008	926197542	MW-15	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-009	926197559	MW-16	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-010	926197567	DU-05401	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-011	926197575	MW-16A	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-012	926197781	MW-26R	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-013	926197799	MW-23	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-014	926197807	RBLK-05401	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-015	926197815	MW-15A	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-016	926197823	SW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-017	926197831	SW-3	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-018	926197849	SW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-019	926197856	SW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-020	926197864	MW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-021	926197872	MW-5	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-022	926197880	MW-24	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-023	926197898	RW-4	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-024	926197906	RW-1	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-025	926197914	MW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-026	926197922	MW-10	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-027	926197930	MW-9	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-028	926197948	MW-8	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-029	926197955	MW-7	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-030	926197963	DU-05402	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-031	926197971	MW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-032	926197989	MW-6	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-033	926197997	MW-27	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-034	926198003	MW-11	8260X WL92	GC/MS VOCs by 8260, low level	9
92104964-035	926198011	MW-19	8260X WL92	GC/MS VOCs by 8260, low level	10
92104964-036	926198029	MW-22	8260X WL92	GC/MS VOCs by 8260, low level	9

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197443 | Project Sample Number: 92104964-001 | Date Collected: 10/04/05 00:00
Client Sample ID: TBLK 05401 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 13:56	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 13:56	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 13:56	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/17/05 13:56	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/17/05 13:56	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 13:56	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/17/05 13:56	MSF	2037-26-5		
4-Bromofluorobenzene (S)	99	%		10/17/05 13:56	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/17/05 13:56	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		10/17/05 13:56	MSF	17060-07-0		

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NC Wastewater 40
NC Drinking Water 37712
SC 99030
FL NELAP E87648

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197484 | Project Sample Number: 92104964-002 | Date Collected: 10/04/05 09:50
Client Sample ID: MW-28 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 15:38	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 15:38	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 15:38	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/17/05 15:38	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/17/05 15:38	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 15:38	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 15:38	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/17/05 15:38	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/17/05 15:38	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/17/05 15:38	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197492 | Project Sample Number: 92104964-003 | Date Collected: 10/04/05 10:20
Client Sample ID: MW-28A | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	2.9	ug/l	1.0	10/17/05 16:03	MSF	540-59-0		
cis-1,2-Dichloroethene	2.9	ug/l	1.0	10/17/05 16:03	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 16:03	MSF	156-60-5		
Tetrachloroethene	18.	ug/l	1.0	10/17/05 16:03	MSF	127-18-4		
Trichloroethene	10.	ug/l	1.0	10/17/05 16:03	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 16:03	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 16:03	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/17/05 16:03	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		10/17/05 16:03	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		10/17/05 16:03	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197500 | Project Sample Number: 92104964-004 | Date Collected: 10/04/05 10:45
Client Sample ID: MW-20 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	5.1	ug/l	1.0	10/17/05 16:29	MSF	540-59-0		
cis-1,2-Dichloroethene	5.1	ug/l	1.0	10/17/05 16:29	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 16:29	MSF	156-60-5		
Trichloroethene	8.2	ug/l	1.0	10/17/05 16:29	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 16:29	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/17/05 16:29	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/17/05 16:29	MSF	460-00-4		
Dibromofluoromethane (S)	109	%		10/17/05 16:29	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		10/17/05 16:29	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197518 | Project Sample Number: 92104964-005 | Date Collected: 10/04/05 11:10
Client Sample ID: MW-12 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 16:54	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 16:54	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 16:54	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/17/05 16:54	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 16:54	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 16:54	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/17/05 16:54	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		10/17/05 16:54	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/17/05 16:54	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197526 | Project Sample Number: 92104964-006 | Date Collected: 10/04/05 12:25
Client Sample ID: MW-13 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 17:20	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 17:20	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 17:20	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/17/05 17:20	MSF	79-01-6		
Vinyl chloride	6.9	ug/l	1.0	10/17/05 17:20	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 17:20	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/17/05 17:20	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		10/17/05 17:20	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		10/17/05 17:20	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197534 | Project Sample Number: 92104964-007 | Date Collected: 10/04/05 12:55
Client Sample ID: MW-17 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 17:45	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 17:45	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 17:45	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/17/05 17:45	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 17:45	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/17/05 17:45	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/17/05 17:45	MSF	460-00-4		
Dibromofluoromethane (S)	106	%		10/17/05 17:45	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		10/17/05 17:45	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197542 | Project Sample Number: 92104964-008 | Date Collected: 10/04/05 13:20
Client Sample ID: MW-15 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 18:10	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 18:10	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 18:10	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/17/05 18:10	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 18:10	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/17/05 18:10	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/17/05 18:10	MSF	460-00-4		
Dibromofluoromethane (S)	106	%		10/17/05 18:10	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		10/17/05 18:10	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197559 | Project Sample Number: 92104964-009 | Date Collected: 10/04/05 13:40
Client Sample ID: MW-16 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 18:36	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 18:36	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 18:36	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/17/05 18:36	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 18:36	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/17/05 18:36	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/17/05 18:36	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		10/17/05 18:36	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		10/17/05 18:36	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197567 | Project Sample Number: 92104964-010 | Date Collected: 10/04/05 00:00
Client Sample ID: DU-05401 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	2.9	ug/l	1.0	10/17/05 19:01	MSF	540-59-0		
cis-1,2-Dichloroethene	2.9	ug/l	1.0	10/17/05 19:01	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 19:01	MSF	156-60-5		
Tetrachloroethene	17.	ug/l	1.0	10/17/05 19:01	MSF	127-18-4		
Trichloroethene	10.	ug/l	1.0	10/17/05 19:01	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 19:01	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 19:01	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/17/05 19:01	MSF	460-00-4		
Dibromofluoromethane (S)	110	%		10/17/05 19:01	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		10/17/05 19:01	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197575 | Project Sample Number: 92104964-011 | Date Collected: 10/04/05 14:00
Client Sample ID: MW-16A | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 19:26	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 19:26	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 19:26	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/17/05 19:26	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 19:26	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 19:26	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/17/05 19:26	MSF	460-00-4		
Dibromofluoromethane (S)	110	%		10/17/05 19:26	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		10/17/05 19:26	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197781 | Project Sample Number: 92104964-012 | Date Collected: 10/04/05 14:30
Client Sample ID: MW-26R | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	32.	ug/l	1.0	10/17/05 19:52	MSF	540-59-0		
cis-1,2-Dichloroethene	32.	ug/l	1.0	10/17/05 19:52	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 19:52	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/17/05 19:52	MSF	127-18-4		
Trichloroethene	2.6	ug/l	1.0	10/17/05 19:52	MSF	79-01-6		
Vinyl chloride	14.	ug/l	1.0	10/17/05 19:52	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/17/05 19:52	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/17/05 19:52	MSF	460-00-4		
Dibromofluoromethane (S)	108	%		10/17/05 19:52	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		10/17/05 19:52	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197799 | Project Sample Number: 92104964-013 | Date Collected: 10/04/05 14:55
Client Sample ID: MW-23 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/17/05 20:17	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 20:17	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/17/05 20:17	MSF	156-60-5		
Tetrachloroethene	1.3	ug/l	1.0	10/17/05 20:17	MSF	127-18-4		
Trichloroethene	1.1	ug/l	1.0	10/17/05 20:17	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/17/05 20:17	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/17/05 20:17	MSF	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/17/05 20:17	MSF	460-00-4		
Dibromofluoromethane (S)	108	%		10/17/05 20:17	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		10/17/05 20:17	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197807 | Project Sample Number: 92104964-014 | Date Collected: 10/05/05 09:25
Client Sample ID: RBLK-05401 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/18/05 13:47	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 13:47	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 13:47	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/18/05 13:47	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/18/05 13:47	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/05 13:47	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/18/05 13:47	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/18/05 13:47	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		10/18/05 13:47	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		10/18/05 13:47	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197815 | Project Sample Number: 92104964-015 | Date Collected: 10/05/05 09:50
Client Sample ID: MW-15A | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/18/05 17:09	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 17:09	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 17:09	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/18/05 17:09	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/05 17:09	MSF	75-01-4		
Toluene-d8 (S)	94	%		10/18/05 17:09	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/18/05 17:09	MSF	460-00-4		
Dibromofluoromethane (S)	116	%		10/18/05 17:09	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	118	%		10/18/05 17:09	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197823 | Project Sample Number: 92104964-016 | Date Collected: 10/05/05 10:05
Client Sample ID: SW-4 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/18/05 21:48	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 21:48	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 21:48	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/18/05 21:48	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/05 21:48	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/18/05 21:48	MSF	2037-26-5		
4-Bromofluorobenzene (S)	93	%		10/18/05 21:48	MSF	460-00-4		
Dibromofluoromethane (S)	107	%		10/18/05 21:48	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		10/18/05 21:48	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197831 | Project Sample Number: 92104964-017 | Date Collected: 10/05/05 10:20
Client Sample ID: SW-3 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 09:35	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 09:35	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 09:35	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/19/05 09:35	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 09:35	MCK	75-01-4		
Toluene-d8 (S)	97	%		10/19/05 09:35	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/19/05 09:35	MCK	460-00-4		
Dibromofluoromethane (S)	105	%		10/19/05 09:35	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		10/19/05 09:35	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197849 Project Sample Number: 92104964-018 Date Collected: 10/05/05 10:35
Client Sample ID: SW-2 Matrix: Water Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/18/05 21:19	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 21:19	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 21:19	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/18/05 21:19	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/05 21:19	MCK	75-01-4		
Toluene-d8 (S)	98	%		10/18/05 21:19	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		10/18/05 21:19	MCK	460-00-4		
Dibromofluoromethane (S)	104	%		10/18/05 21:19	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/18/05 21:19	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197856 | Project Sample Number: 92104964-019 | Date Collected: 10/05/05 10:50
Client Sample ID: SW-1 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/18/05 21:45	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 21:45	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 21:45	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/18/05 21:45	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/05 21:45	MCK	75-01-4		
Toluene-d8 (S)	98	%		10/18/05 21:45	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/18/05 21:45	MCK	460-00-4		
Dibromofluoromethane (S)	101	%		10/18/05 21:45	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/18/05 21:45	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197864 | Project Sample Number: 92104964-020 | Date Collected: 10/05/05 12:30
Client Sample ID: MW-4 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	260	ug/l	2.0	10/18/05 22:36	MCK	540-59-0		
cis-1,2-Dichloroethene	240	ug/l	2.0	10/18/05 22:36	MCK	156-59-2		
trans-1,2-Dichloroethene	19.	ug/l	2.0	10/18/05 22:36	MCK	156-60-5		
Trichloroethene	280	ug/l	2.0	10/18/05 22:36	MCK	79-01-6		
Vinyl chloride	5.3	ug/l	2.0	10/18/05 22:36	MCK	75-01-4		
Toluene-d8 (S)	97	%		10/18/05 22:36	MCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		10/18/05 22:36	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		10/18/05 22:36	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		10/18/05 22:36	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197872 | Project Sample Number: 92104964-021 | Date Collected: 10/05/05 13:00
Client Sample ID: MW-5 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	310	ug/l	50.	10/18/05 23:02	MCK	540-59-0		
cis-1,2-Dichloroethene	310	ug/l	50.	10/18/05 23:02	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	50.	10/18/05 23:02	MCK	156-60-5		
Trichloroethene	5600	ug/l	50.	10/18/05 23:02	MCK	79-01-6		
Vinyl chloride	ND	ug/l	50.	10/18/05 23:02	MCK	75-01-4		
Toluene-d8 (S)	97	%		10/18/05 23:02	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/18/05 23:02	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		10/18/05 23:02	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/18/05 23:02	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197880 | Project Sample Number: 92104964-022 | Date Collected: 10/05/05 13:30
Client Sample ID: MW-24 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/18/05 22:11	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 22:11	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/05 22:11	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/18/05 22:11	MCK	127-18-4		
Trichloroethene	3.3	ug/l	1.0	10/18/05 22:11	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/05 22:11	MCK	75-01-4		
Toluene-d8 (S)	97	%		10/18/05 22:11	MCK	2037-26-5		
4-Bromofluorobenzene (S)	100	%		10/18/05 22:11	MCK	460-00-4		
Dibromofluoromethane (S)	104	%		10/18/05 22:11	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/18/05 22:11	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197898 | Project Sample Number: 92104964-023 | Date Collected: 10/05/05 13:40
Client Sample ID: RW-4 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	8.8	ug/l	2.0	10/18/05 23:28	MCK	540-59-0		
cis-1,2-Dichloroethene	8.8	ug/l	2.0	10/18/05 23:28	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	2.0	10/18/05 23:28	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	2.0	10/18/05 23:28	MCK	127-18-4		
Trichloroethene	410	ug/l	5.0	10/18/05 23:28	MCK	79-01-6		
Vinyl chloride	ND	ug/l	2.0	10/18/05 23:28	MCK	75-01-4		
Toluene-d8 (S)	98	%		10/18/05 23:28	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/18/05 23:28	MCK	460-00-4		
Dibromofluoromethane (S)	102	%		10/18/05 23:28	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/18/05 23:28	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197906 | Project Sample Number: 92104964-024 | Date Collected: 10/05/05 13:50
Client Sample ID: RW-1 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	32.	ug/l	5.0	10/18/05 23:53	MCK	540-59-0		
cis-1,2-Dichloroethene	32.	ug/l	5.0	10/18/05 23:53	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	10/18/05 23:53	MCK	156-60-5		
Tetrachloroethene	10.	ug/l	5.0	10/18/05 23:53	MCK	127-18-4		
Trichloroethene	1300	ug/l	10.	10/18/05 23:53	MCK	79-01-6		
Vinyl chloride	ND	ug/l	5.0	10/18/05 23:53	MCK	75-01-4		
Toluene-d8 (S)	96	%		10/18/05 23:53	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/18/05 23:53	MCK	460-00-4		
Dibromofluoromethane (S)	100	%		10/18/05 23:53	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		10/18/05 23:53	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197914 | Project Sample Number: 92104964-025 | Date Collected: 10/06/05 09:35
Client Sample ID: MW-1 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 09:10	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 09:10	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 09:10	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/19/05 09:10	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 09:10	MCK	75-01-4		
Toluene-d8 (S)	98	%		10/19/05 09:10	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/19/05 09:10	MCK	460-00-4		
Dibromofluoromethane (S)	104	%		10/19/05 09:10	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		10/19/05 09:10	MCK	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197922 | Project Sample Number: 92104964-026 | Date Collected: 10/06/05 10:05
Client Sample ID: MW-10 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	15.	ug/l	1.0	10/19/05 02:56	MSF	540-59-0		
cis-1,2-Dichloroethene	14.	ug/l	1.0	10/19/05 02:56	MSF	156-59-2		
trans-1,2-Dichloroethene	1.2	ug/l	1.0	10/19/05 02:56	MSF	156-60-5		
Trichloroethene	1.0	ug/l	1.0	10/19/05 02:56	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 02:56	MSF	75-01-4		
Toluene-d8 (S)	95	%		10/19/05 02:56	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/19/05 02:56	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/19/05 02:56	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/19/05 02:56	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197930 Project Sample Number: 92104964-027 Date Collected: 10/06/05 10:25
Client Sample ID: MW-9 Matrix: Water Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	42.	ug/l	2.0	10/19/05 03:22	MSF	540-59-0		
cis-1,2-Dichloroethene	39.	ug/l	2.0	10/19/05 03:22	MSF	156-59-2		
trans-1,2-Dichloroethene	2.8	ug/l	2.0	10/19/05 03:22	MSF	156-60-5		
Trichloroethene	730	ug/l	5.0	10/19/05 03:22	MSF	79-01-6		
Vinyl chloride	ND	ug/l	2.0	10/19/05 03:22	MSF	75-01-4		
Toluene-d8 (S)	95	%		10/19/05 03:22	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/19/05 03:22	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/19/05 03:22	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/19/05 03:22	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197948 | Project Sample Number: 92104964-028 | Date Collected: 10/06/05 10:45
Client Sample ID: MW-8 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 03:47	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 03:47	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 03:47	MSF	156-60-5		
Trichloroethene	1.1	ug/l	1.0	10/19/05 03:47	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 03:47	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/19/05 03:47	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/19/05 03:47	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/19/05 03:47	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		10/19/05 03:47	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197955 | Project Sample Number: 92104964-029 | Date Collected: 10/06/05 11:10
Client Sample ID: MW-7 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 04:12	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 04:12	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 04:12	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/19/05 04:12	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 04:12	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/19/05 04:12	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/19/05 04:12	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/19/05 04:12	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/19/05 04:12	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197963 | Project Sample Number: 92104964-030 | Date Collected: 10/06/05 00:00
Client Sample ID: DU-05402 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	7.0	ug/l	2.0	10/19/05 04:37	MSF	540-59-0		
cis-1,2-Dichloroethene	7.0	ug/l	2.0	10/19/05 04:37	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	2.0	10/19/05 04:37	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	2.0	10/19/05 04:37	MSF	127-18-4		
Trichloroethene	380	ug/l	2.0	10/19/05 04:37	MSF	79-01-6		
Vinyl chloride	ND	ug/l	2.0	10/19/05 04:37	MSF	75-01-4		
Toluene-d8 (S)	94	%		10/19/05 04:37	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/19/05 04:37	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/19/05 04:37	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		10/19/05 04:37	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197971 | Project Sample Number: 92104964-031 | Date Collected: 10/06/05 11:30
Client Sample ID: MW-2 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 05:03	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 05:03	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 05:03	MSF	156-60-5		
Trichloroethene	9.4	ug/l	1.0	10/19/05 05:03	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 05:03	MSF	75-01-4		
Toluene-d8 (S)	95	%		10/19/05 05:03	MSF	2037-26-5		
4-Bromofluorobenzene (S)	99	%		10/19/05 05:03	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/19/05 05:03	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		10/19/05 05:03	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197989 | Project Sample Number: 92104964-032 | Date Collected: 10/06/05 11:50
Client Sample ID: MW-6 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 05:28	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 05:28	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 05:28	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/19/05 05:28	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 05:28	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/19/05 05:28	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/19/05 05:28	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/19/05 05:28	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		10/19/05 05:28	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926197997 | Project Sample Number: 92104964-033 | Date Collected: 10/06/05 11:50
Client Sample ID: MW-27 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 05:53	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 05:53	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 05:53	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/19/05 05:53	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 05:53	MSF	75-01-4		
Toluene-d8 (S)	95	%		10/19/05 05:53	MSF	2037-26-5		
4-Bromofluorobenzene (S)	99	%		10/19/05 05:53	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		10/19/05 05:53	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		10/19/05 05:53	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926198003 | Project Sample Number: 92104964-034 | Date Collected: 10/06/05 13:40
Client Sample ID: MW-11 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 06:19	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 06:19	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 06:19	MSF	156-60-5		
Trichloroethene	1.4	ug/l	1.0	10/19/05 06:19	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 06:19	MSF	75-01-4		
Toluene-d8 (S)	95	%		10/19/05 06:19	MSF	2037-26-5		
4-Bromofluorobenzene (S)	100	%		10/19/05 06:19	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/19/05 06:19	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/19/05 06:19	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926198011 | Project Sample Number: 92104964-035 | Date Collected: 10/06/05 14:00
Client Sample ID: MW-19 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	1.2	ug/l	1.0	10/19/05 06:44	MSF	540-59-0		
cis-1,2-Dichloroethene	1.2	ug/l	1.0	10/19/05 06:44	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 06:44	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/19/05 06:44	MSF	127-18-4		
Trichloroethene	32.	ug/l	1.0	10/19/05 06:44	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 06:44	MSF	75-01-4		
Toluene-d8 (S)	94	%		10/19/05 06:44	MSF	2037-26-5		
4-Bromofluorobenzene (S)	100	%		10/19/05 06:44	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		10/19/05 06:44	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		10/19/05 06:44	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

Lab Sample No: 926198029 | Project Sample Number: 92104964-036 | Date Collected: 10/06/05 14:25
Client Sample ID: MW-22 | Matrix: Water | Date Received: 10/10/05 10:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/19/05 07:09	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 07:09	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/19/05 07:09	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/19/05 07:09	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/19/05 07:09	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/19/05 07:09	MSF	2037-26-5		
4-Bromofluorobenzene (S)	100	%		10/19/05 07:09	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/19/05 07:09	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		10/19/05 07:09	MSF	17060-07-0		

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Lab Project Number: 92104964
Client Project ID: SKF 70144.36

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

QC Batch: 140088 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926197443 926197484 926197492 926197500 926197518 926197526 926197534 926197542 926197559 926197567 926197575 926197781 926197799

METHOD BLANK: 926219361
Associated Lab Samples: 926197443 926197484 926197492 926197500 926197518 926197526 926197534 926197542 926197559 926197567 926197575 926197781 926197799

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	99		
Dibromofluoromethane (S)	%	101		
1,2-Dichloroethane-d4 (S)	%	104		

LABORATORY CONTROL SAMPLE: 926219379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	106.0	106		
cis-1,2-Dichloroethene	ug/l	50.00	52.32	105	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	53.68	107	67-134	
Tetrachloroethene	ug/l	50.00	49.01	98	50-150	
Trichloroethene	ug/l	50.00	59.39	119	63-134	
Vinyl chloride	ug/l	50.00	56.82	114	50-130	
Toluene-d8 (S)				98	70-120	
4-Bromofluorobenzene (S)				99	76-112	
Dibromofluoromethane (S)				101	86-119	
1,2-Dichloroethane-d4 (S)				101	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926219387 926219395

Parameter	Units	926197526 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	50.06	50.03	100	100	55-138	0	30	
Toluene-d8 (S)						97	98	70-120			
4-Bromofluorobenzene (S)						96	93	76-112			
Dibromofluoromethane (S)						106	108	86-119			
1,2-Dichloroethane-d4 (S)						105	108	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

QC Batch: 140204 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926197807 926197815 926197823

METHOD BLANK: 926225277
Associated Lab Samples: 926197807 926197815 926197823

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	104		
1,2-Dichloroethane-d4 (S)	%	105		

LABORATORY CONTROL SAMPLE: 926225285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	116.6	117		
cis-1,2-Dichloroethene	ug/l	50.00	56.65	113	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	59.96	120	67-134	
Tetrachloroethene	ug/l	50.00	52.94	106	50-150	
Trichloroethene	ug/l	50.00	52.47	105	63-134	
Vinyl chloride	ug/l	50.00	63.55	127	50-130	
Toluene-d8 (S)				97	70-120	
4-Bromofluorobenzene (S)				101	76-112	
Dibromofluoromethane (S)				105	86-119	
1,2-Dichloroethane-d4 (S)				99	79-130	

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SC 99006
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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926233446 926233453

Parameter	Units	926186834 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0.2593	50.00	51.84	52.56	103	105	55-138	1	30	
Toluene-d8 (S)						95	96	70-120			
4-Bromofluorobenzene (S)						98	97	76-112			
Dibromofluoromethane (S)						105	104	86-119			
1,2-Dichloroethane-d4 (S)						102	104	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

QC Batch: 140284 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926197849 926197856 926197864 926197872 926197880 926197898 926197906

METHOD BLANK: 926228271
Associated Lab Samples: 926197849 926197856 926197864 926197872 926197880 926197898 926197906

Parameter	Units	Blank Result	Reporting Limit	Footnotes
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	97		
4-Bromofluorobenzene (S)	%	101		
Dibromofluoromethane (S)	%	100		
1,2-Dichloroethane-d4 (S)	%	97		

LABORATORY CONTROL SAMPLE: 926228289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	119.6	120		
cis-1,2-Dichloroethene	ug/l	50.00	58.68	117	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	60.88	122	67-134	
Tetrachloroethene	ug/l	50.00	59.10	118	50-150	
Trichloroethene	ug/l	50.00	60.03	120	63-134	
Vinyl chloride	ug/l	50.00	58.48	117	50-130	
Toluene-d8 (S)				97	70-120	
4-Bromofluorobenzene (S)				102	76-112	
Dibromofluoromethane (S)				98	86-119	
1,2-Dichloroethane-d4 (S)				95	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926230681 926230699

Parameter	Units	926197849 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	59.50	59.38	119	119	55-138	0	30	
Toluene-d8 (S)						97	96	70-120			
4-Bromofluorobenzene (S)						97	97	76-112			
Dibromofluoromethane (S)						102	100	86-119			
1,2-Dichloroethane-d4 (S)						102	101	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

QC Batch: 140304 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926197831 926197914

METHOD BLANK: 926229915
Associated Lab Samples: 926197831 926197914

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	98		
Dibromofluoromethane (S)	%	103		
1,2-Dichloroethane-d4 (S)	%	103		

LABORATORY CONTROL SAMPLE: 926229923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	120.8	121		
cis-1,2-Dichloroethene	ug/l	50.00	59.00	118	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	61.79	124	67-134	
Trichloroethene	ug/l	50.00	61.40	123	63-134	
Vinyl chloride	ug/l	50.00	58.14	116	50-130	
Toluene-d8 (S)				98	70-120	
4-Bromofluorobenzene (S)				98	76-112	
Dibromofluoromethane (S)				100	86-119	
1,2-Dichloroethane-d4 (S)				99	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

QC Batch: 140313 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926197922 926197930 926197948 926197955 926197963 926197971 926197989 926197997 926198003 926198011 926198029

METHOD BLANK: 926230566
Associated Lab Samples: 926197922 926197930 926197948 926197955 926197963 926197971 926197989 926197997 926198003 926198011 926198029

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	97		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	103		
1,2-Dichloroethane-d4 (S)	%	104		

LABORATORY CONTROL SAMPLE: 926230574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	111.2	111		
cis-1,2-Dichloroethene	ug/l	50.00	54.04	108	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	57.19	114	67-134	
Tetrachloroethene	ug/l	50.00	50.36	101	50-150	
Trichloroethene	ug/l	50.00	53.29	107	63-134	
Vinyl chloride	ug/l	50.00	59.58	119	50-130	
Toluene-d8 (S)				97	70-120	
4-Bromofluorobenzene (S)				96	76-112	
Dibromofluoromethane (S)				104	86-119	
1,2-Dichloroethane-d4 (S)				100	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926230582 926230590

Parameter	Units	926197989 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0.2844	50.00	53.61	52.48	107	104	55-138	2	30	
Toluene-d8 (S)						96	94	70-120			
4-Bromofluorobenzene (S)						99	98	76-112			
Dibromofluoromethane (S)						101	99	86-119			
1,2-Dichloroethane-d4 (S)						99	96	79-130			

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Fax: 828.252.4618

Lab Project Number: 92104964
Client Project ID: SKF 70144.36

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

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RMT

CHAIN OF CUSTODY RECORD

92104464 75545

30 Patewood Drive, Suite 100, Patewood Plaza One, Greenville, SC 29615-3535
Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36 | Project/Client: SICF

Project Manager/Contact Person: Mike Parker / Dan Madison

Filtered (Yes/No): N

Preserved (Code): E

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	VOCs								Comments:
	—	—	TBLK-05401	2	DI	X								
	10/4	0950	MW-28	4	GW	X								
		1020	MW-28A	4		X								
		1045	MW-20	4		X								
		1110	MW-12	4		X								
		1225	MW-13	8		X								MS/MSD extra vials
		1255	MW-17	4		X								
		1320	MW-15	4		X								
		1340	MW-16	4		X								
	—	—	DU-05401	4		X								

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

4941037 5173

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	10-6-05	DHL	10-6-05
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Kelly McFadden	10/10/05 1000
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 3.0

Temp Blank (Y) N

Receipt pH (Wet/Metals) _____

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

WHITE—LABORATORY COPY YELLOW—REPORT APPENDIX PINK—SAMPLER/SUBMITTER

CHAIN OF CUSTODY RECORD

75546

RMT

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Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36
Project/Client: SKF
Project Manager/Contact Person: M. Parker / D. Madison

Filtered (Yes/No): N
Preserved (Code): E

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:
	10/4	1400	MW-16A	4	GW	X								
		1430	MW-26R	4		X								
		1455	MW-23	4		X								
	10/5	0925	RBLK-05401	4	DI	X								
		0950	MW-15A	4	GW	X								
		1005	SW-4	4	SW	X								
		1020	SW-3	4		X								
		1035	SW-2	4		X								
		1050	SW-1	4		X								
		1230	MW-4	4	GW	X								

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	10-6-05	DHL	10-6-05
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Kelly McFadden	10/10/05 1000
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp:
Temp Blank (Y) N
3.0
Receipt pH (Wet/Metals) _____

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

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RMT

CHAIN OF CUSTODY RECORD

75547

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Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36 | Project/Client: SKF

Project Manager/Contact Person: M. Parker / D. Madison

Filtered (Yes/No): N
Preserved (Code): E

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:
	10/5	1300	MW-5	4	GW	X								
		1330	MW-24	4		X								
		1340	RW-4	4		X								
		1350	RW-1	8		X								MS/MSD extra vials
	10/6	0935	MW-1	4		X								
		1005	MW-10	4		X								
		1025	MW-9	4		X								
		1045	MW-8	4		X								
		1110	MW-7	4		X								
	—	—	DU-05402	4		X								

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	10-6-05	DHL	10-6-05
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Kelly McFadden	10/10/05 1000
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush
Report Due _____

(For Lab Use Only)
Receipt Temp: 3.0
Temp Blank (Y) N
Receipt pH (Wet/Metals) _____

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

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CHAIN OF CUSTODY RECORD

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Phone 864/281-0030 • Fax 864/281-0288

Project No. 70144.36 | Project/Client: SKF

Project Manager/Contact Person: M. Parker / D. Madison

Filtered (Yes/No): N

Preserved (Code): E

Lab No.	Yr. 05 Date	Time	Sample Station ID	Total Number of Containers	MATRIX	Analyses Requested: VOCs								Comments:
	10/6	1130	MW-2	4	GW	X								
		1150	MW-6	4		X								
		1310	MW-27	4		X								
		1340	MW-11	4		X								
		1400	MW-19	4		X								
		1425	MW-22	4		X								

PRESERVED CODES
A — NONE
B — HNO_3
C — H_2SO_4
D — NaOH
E — HCl
F — METHANOL
G — _____

SPECIAL INSTRUCTIONS

SAMPLER Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	10-6-05	DHL	10-6-05
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Kelly [signature]	10/10/05 1000
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

HAZARDS ASSOCIATED WITH SAMPLES
- ☐ Flammable
- ☐ Corrosive
- ☐ Highly Toxic
- ☐ Other (list) _____

Turn Around (circle one) Normal Rush

Report Due _____

(For Lab Use Only)

Receipt Temp: 3.0

Temp Blank (Y) N

Receipt pH (Wet/Metals) _____

Custody Seal: Present/Absent Intact/Not Intact Seal #s

F-268 (6/04)

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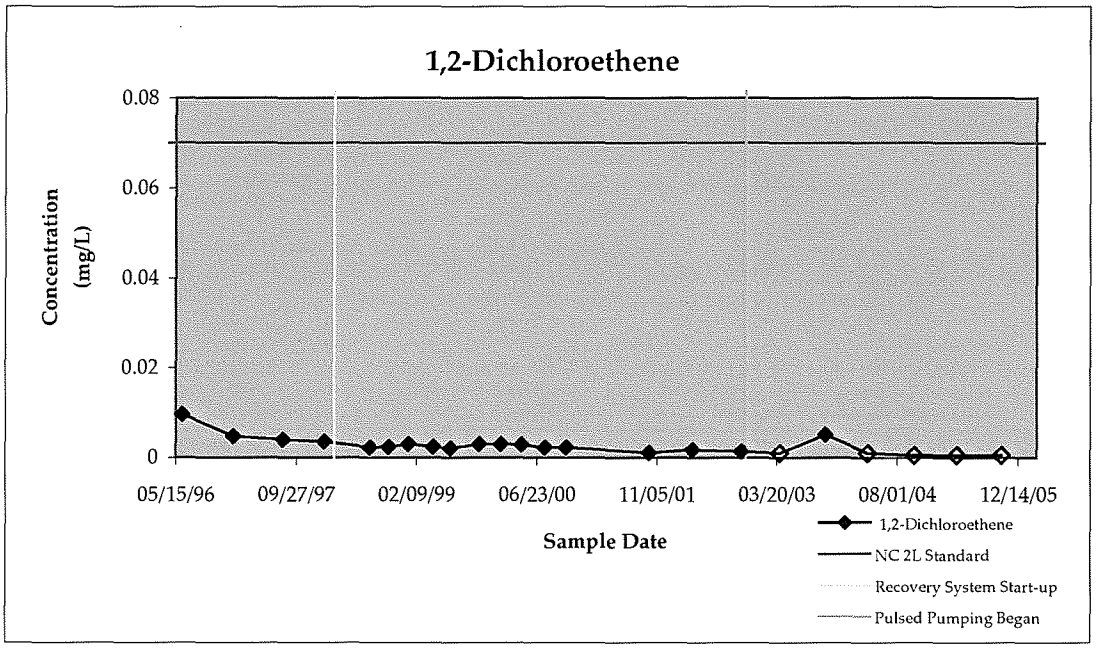
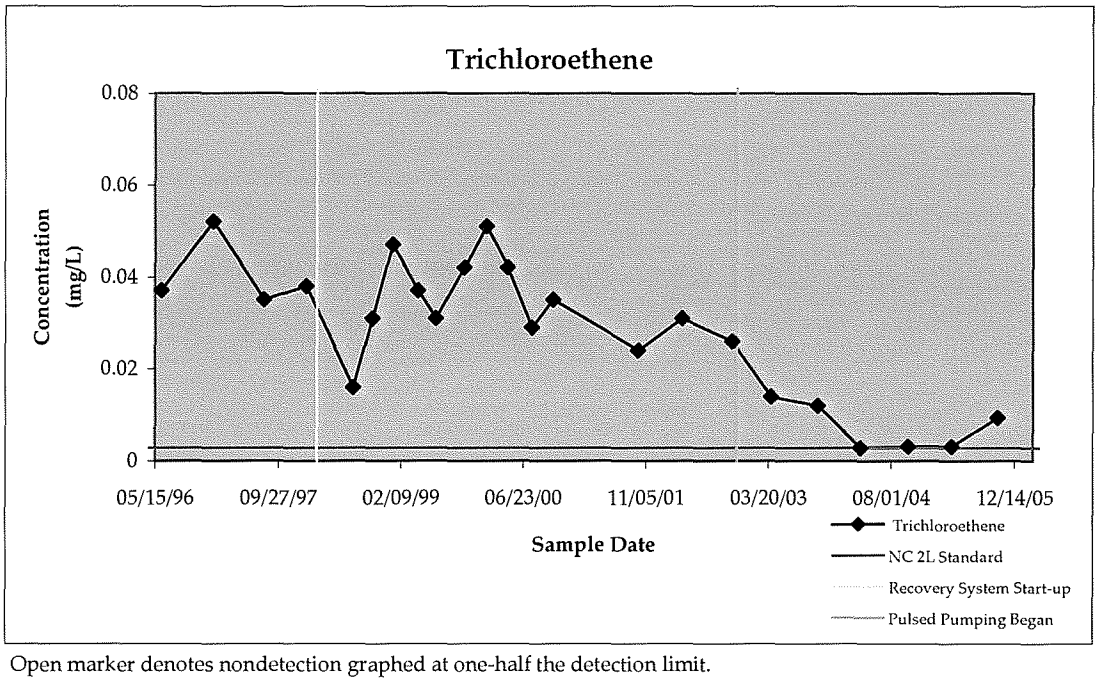
Appendix C
Time Versus Concentration Graphs

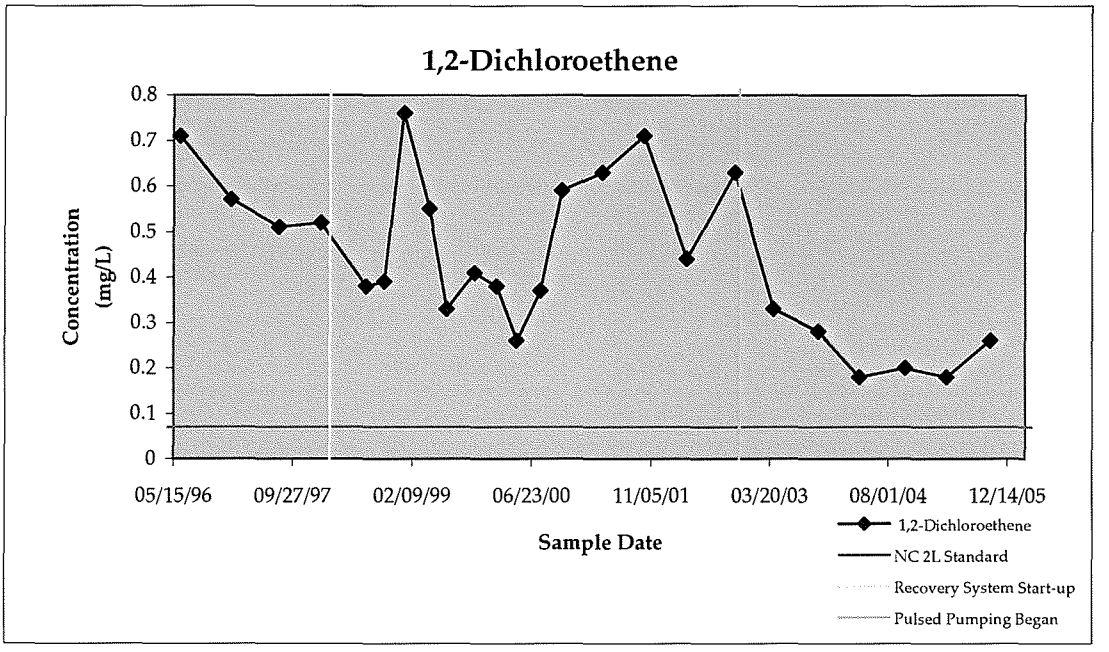
Time vs. Concentration Graphs
MW-02

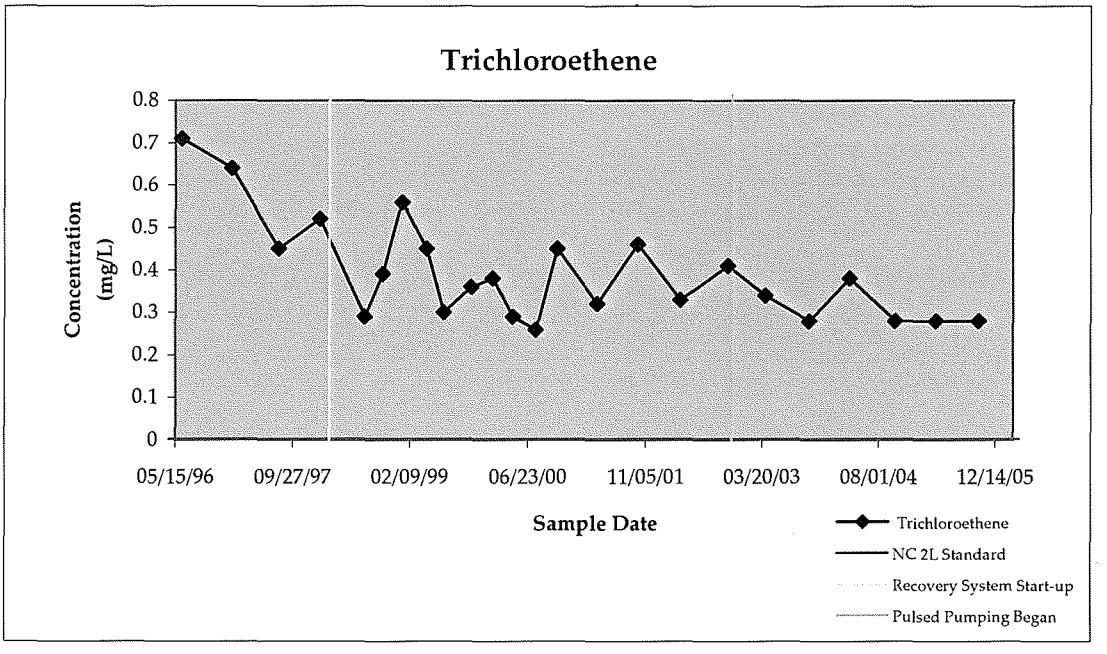




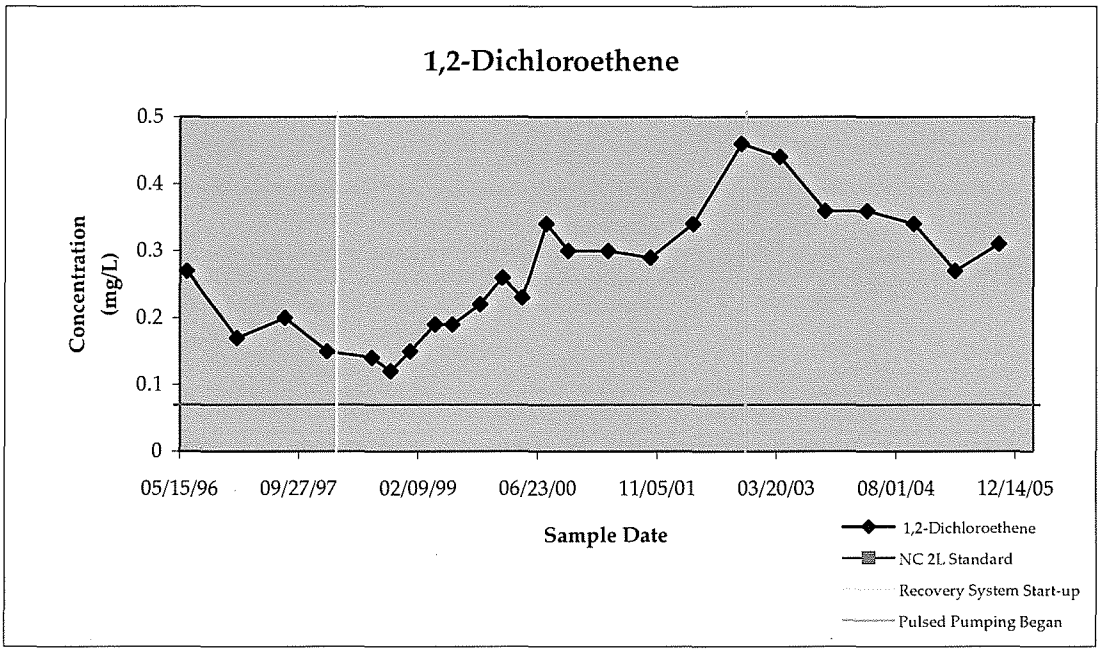
Open marker denotes nondetection graphed at one-half the detection limit.

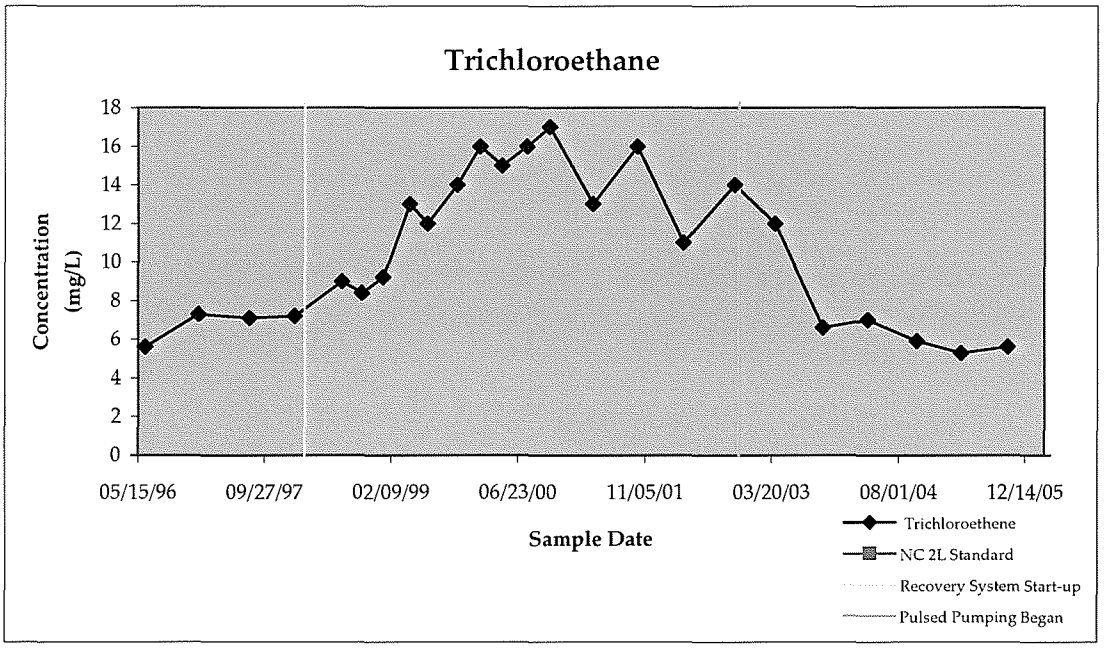
Time vs. Concentration Graphs
MW-04



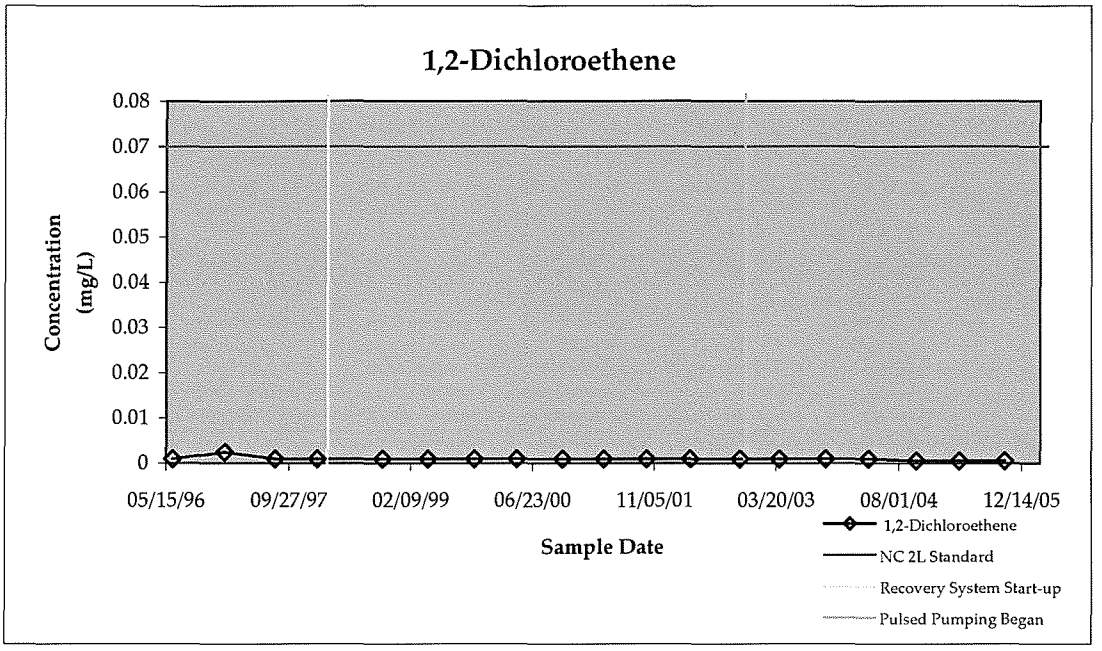


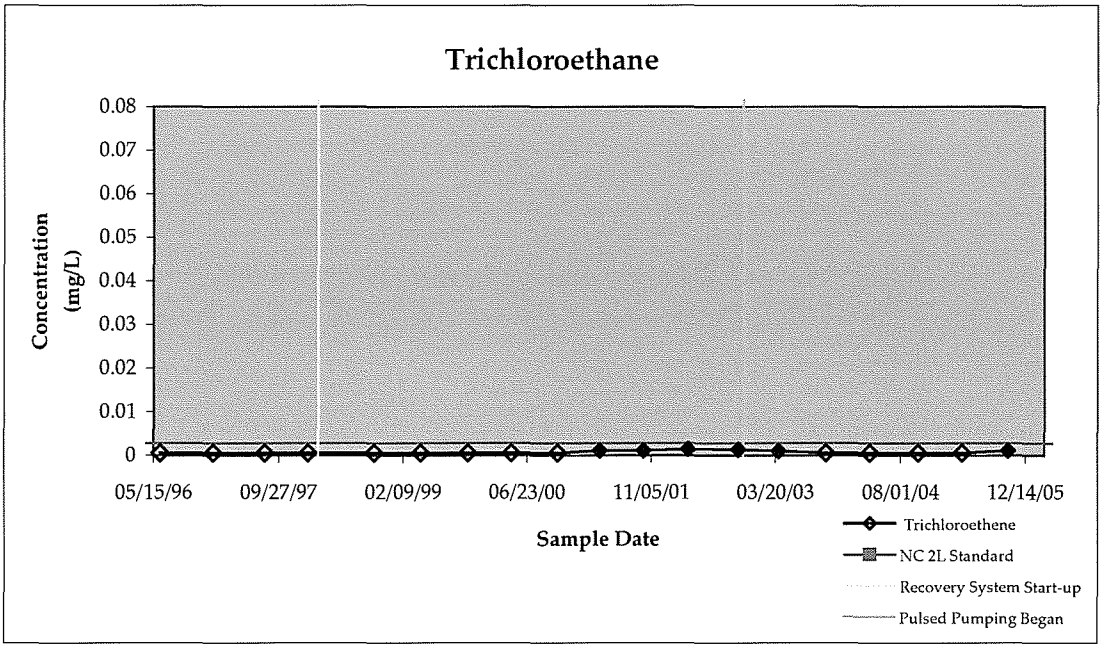
Time vs. Concentration Graphs
MW-05





Time vs. Concentration Graphs
MW-08





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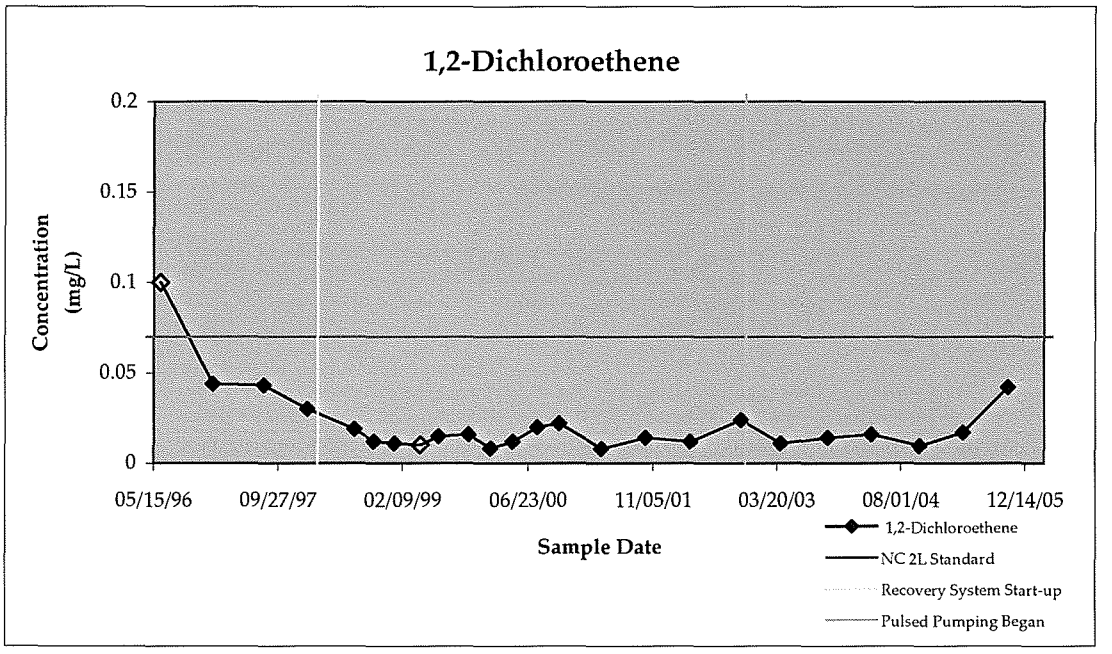
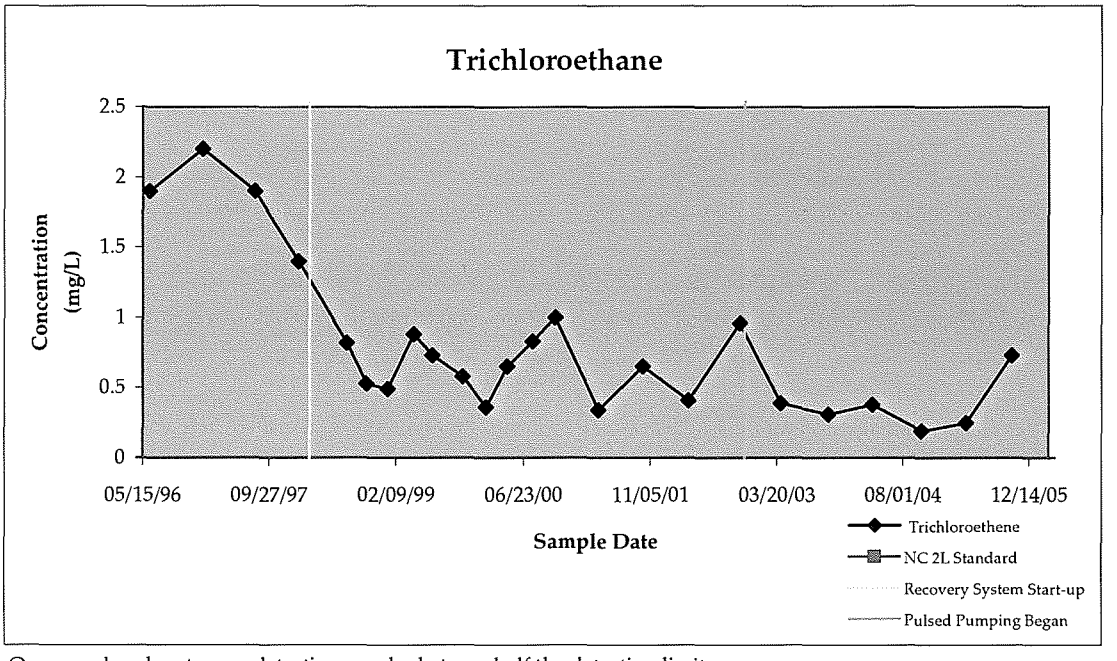
Time vs. Concentration Graphs
MW-09





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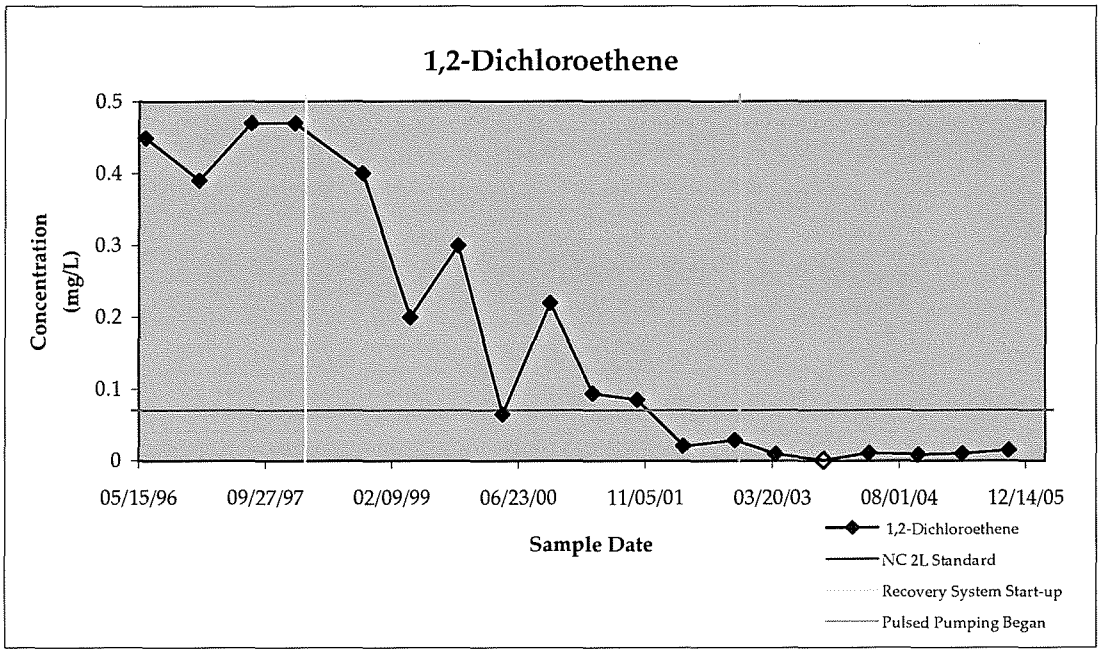
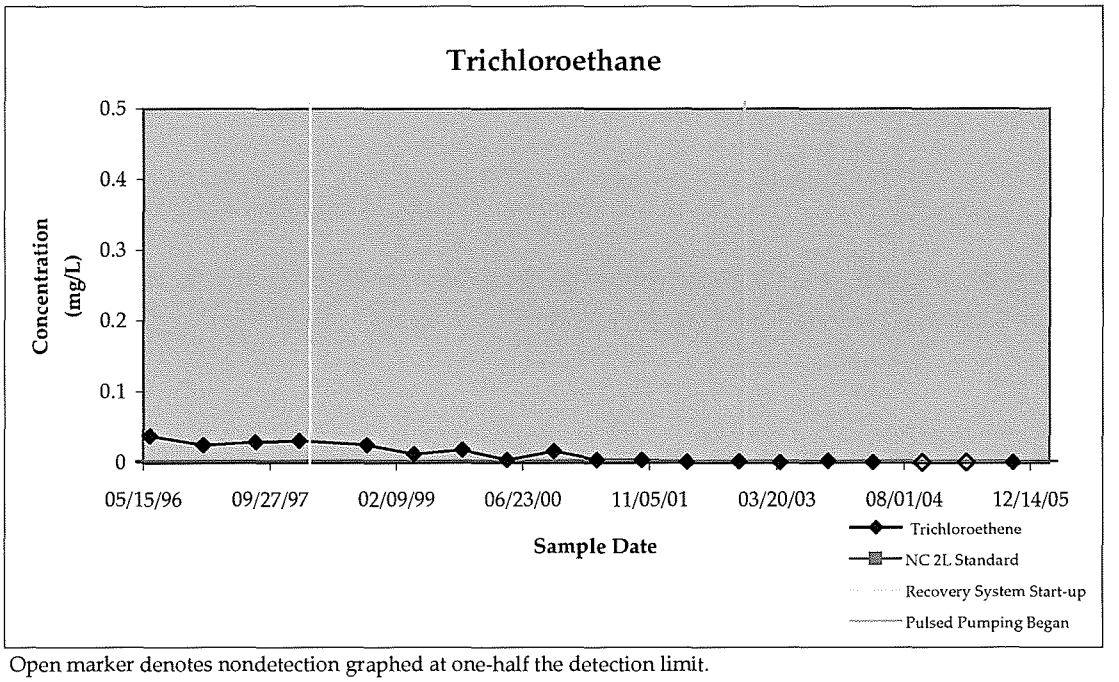
Time vs. Concentration Graphs
MW-10





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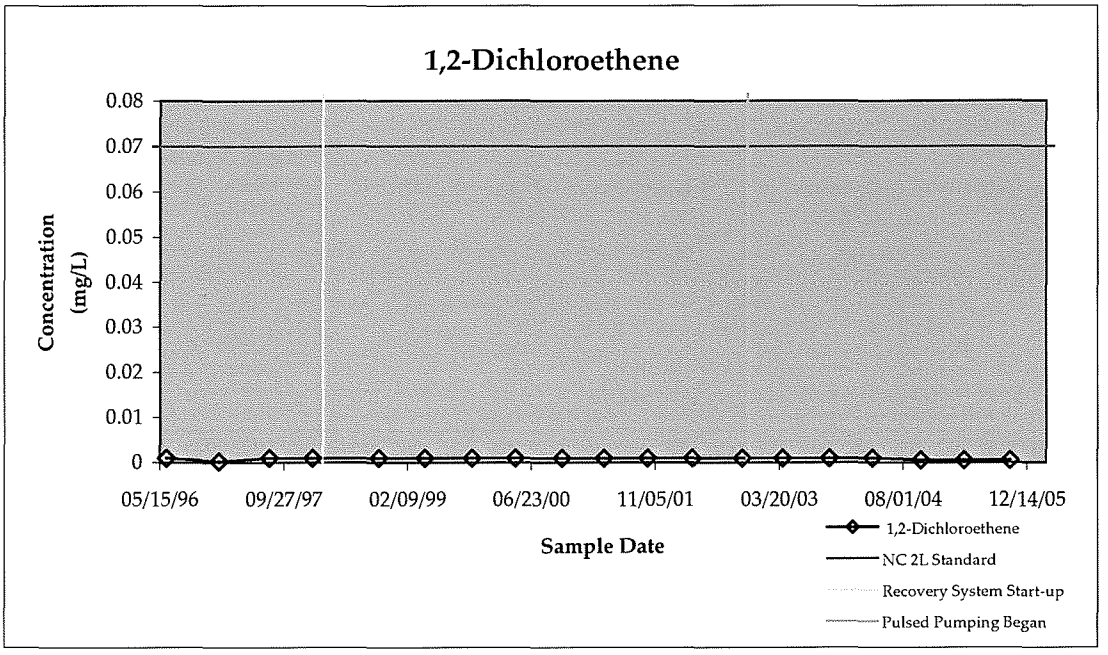
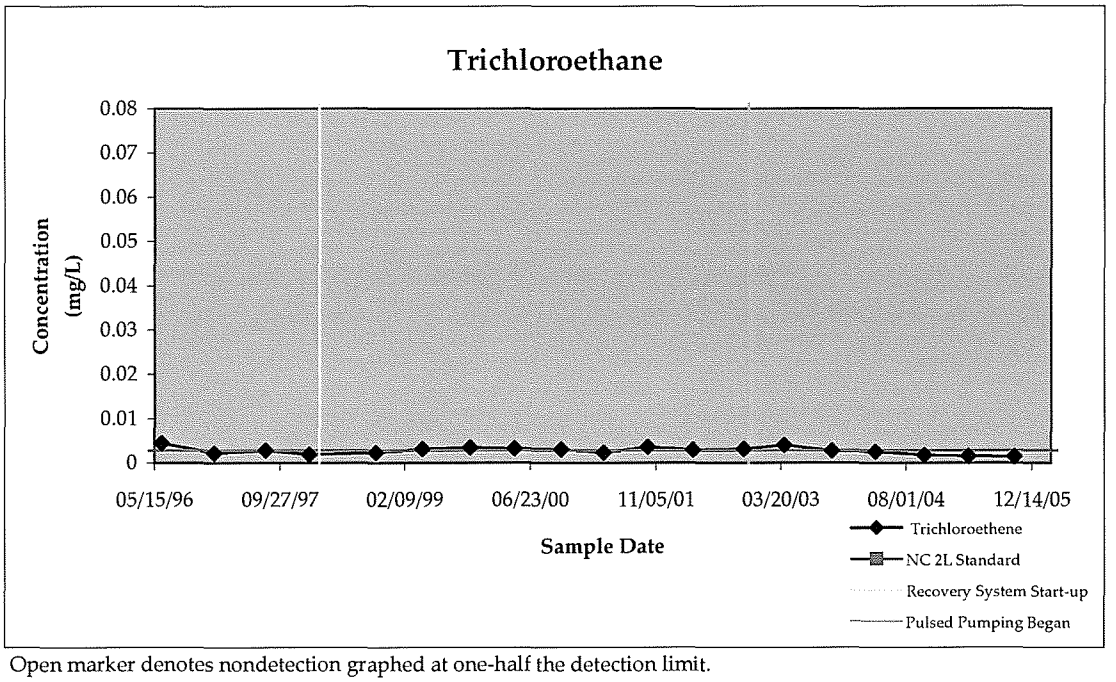
Time vs. Concentration Graphs
MW-11





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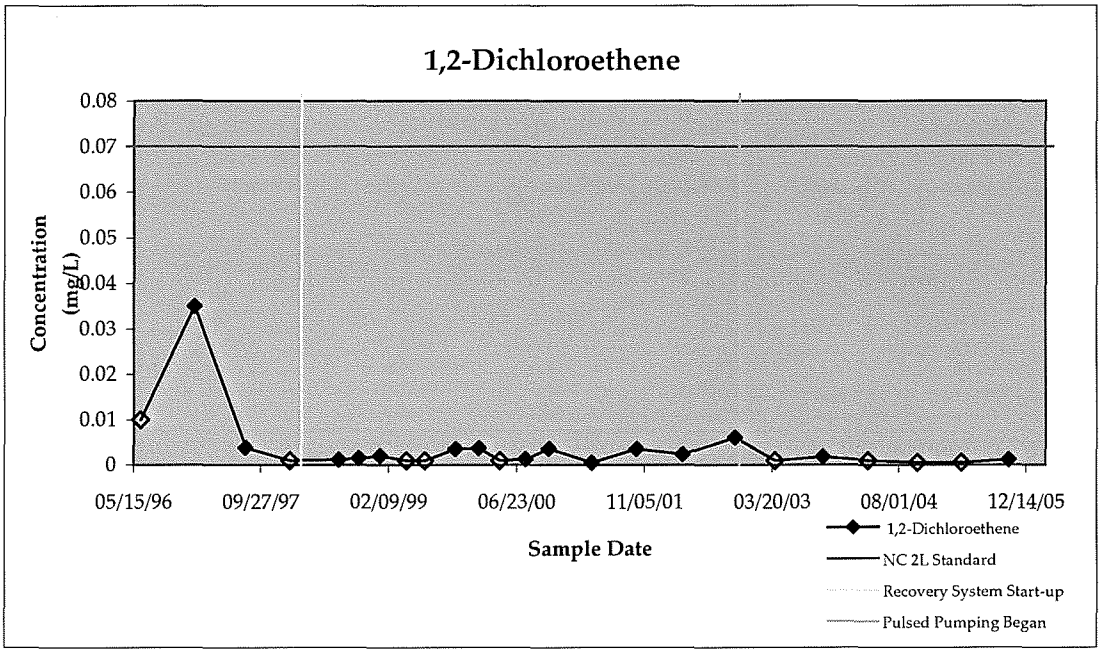
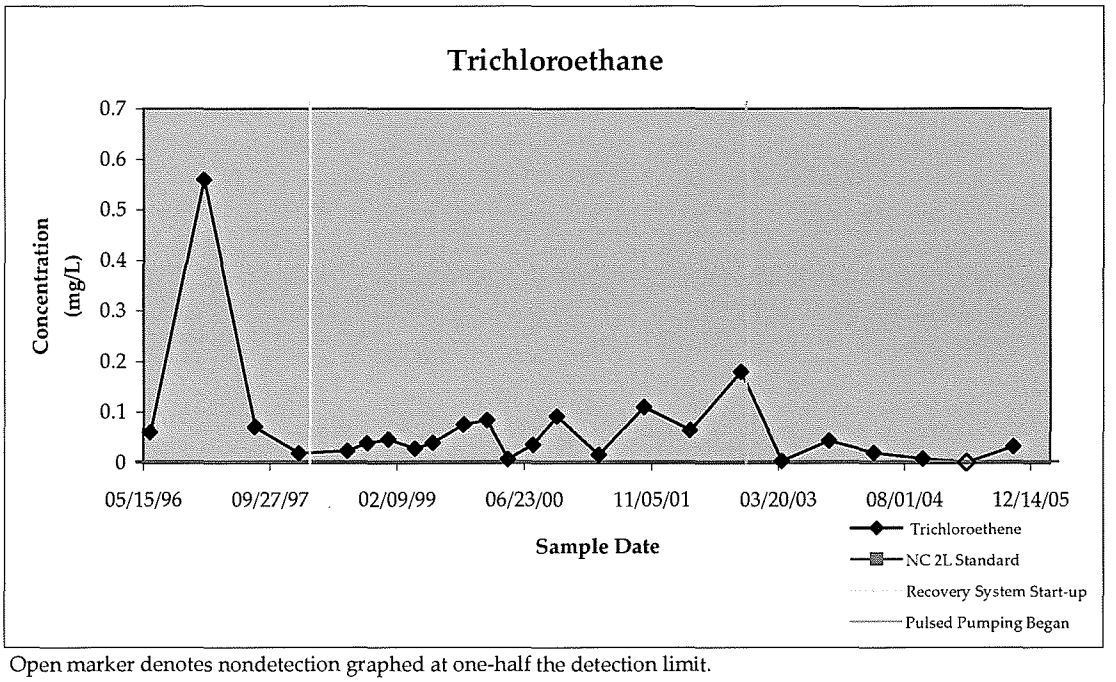
Time vs. Concentration Graphs
MW-19





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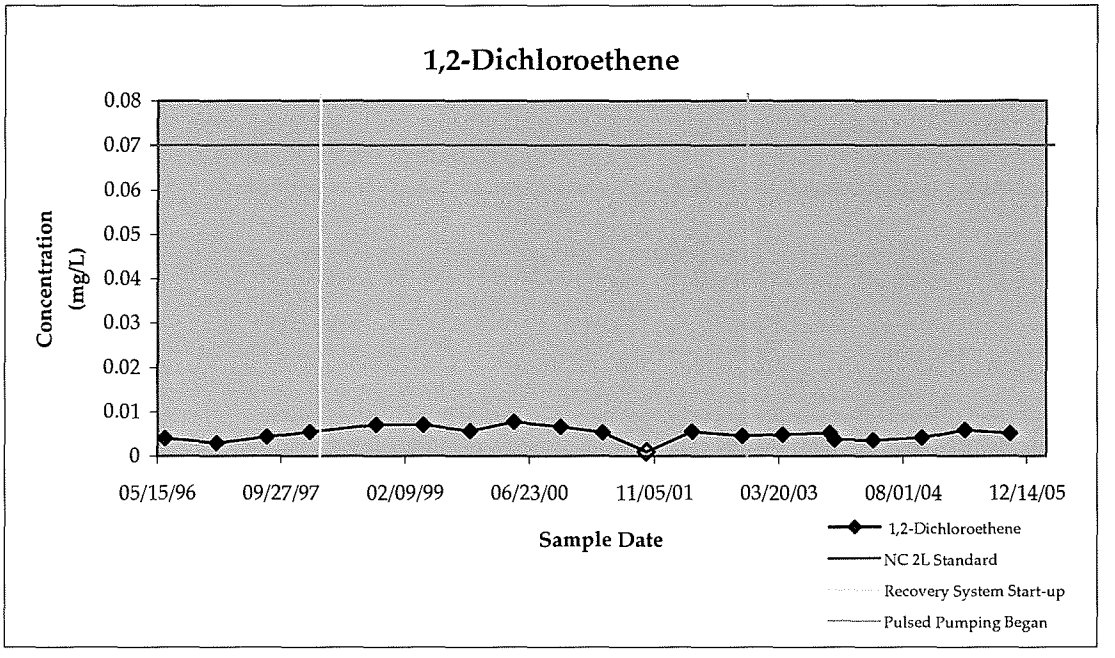
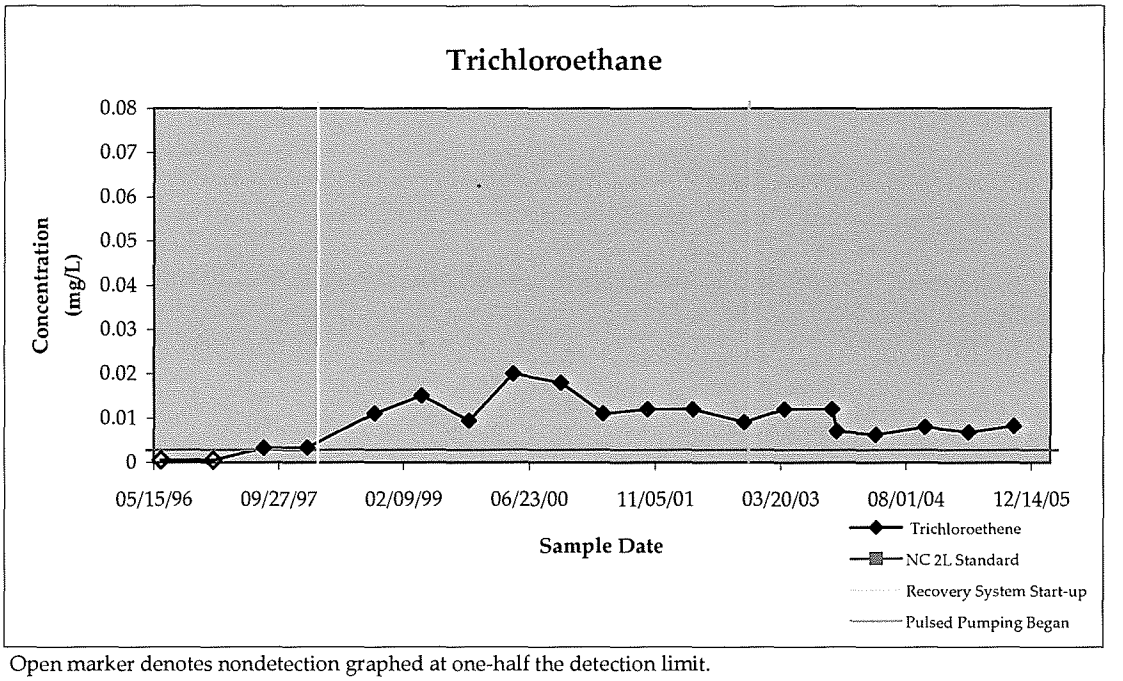
Time vs. Concentration Graphs
MW-20





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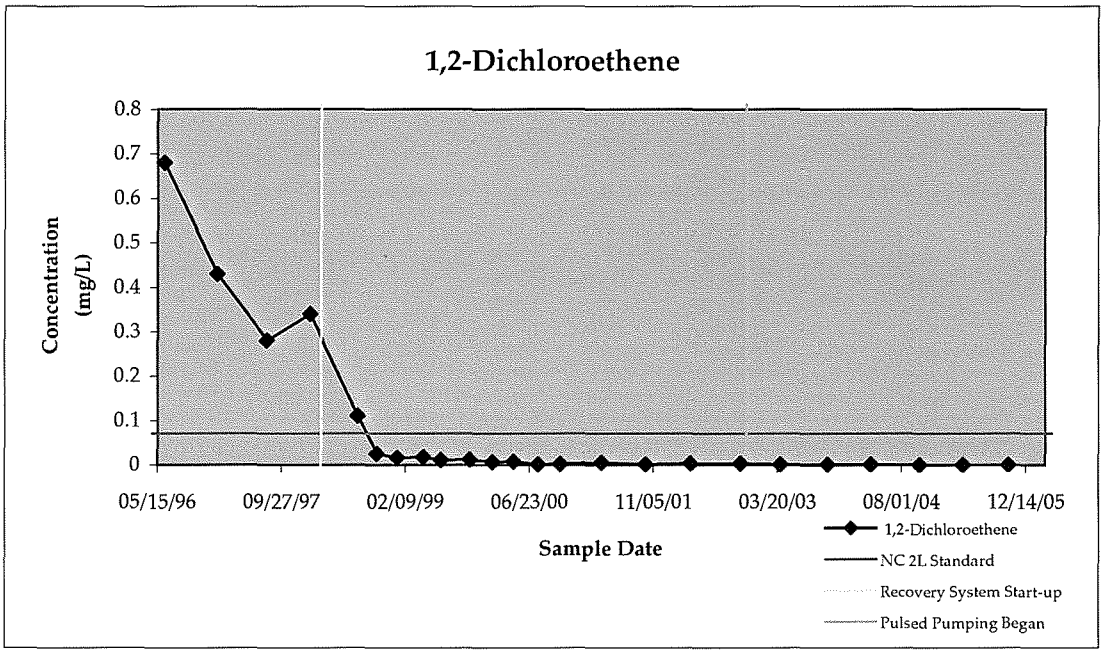
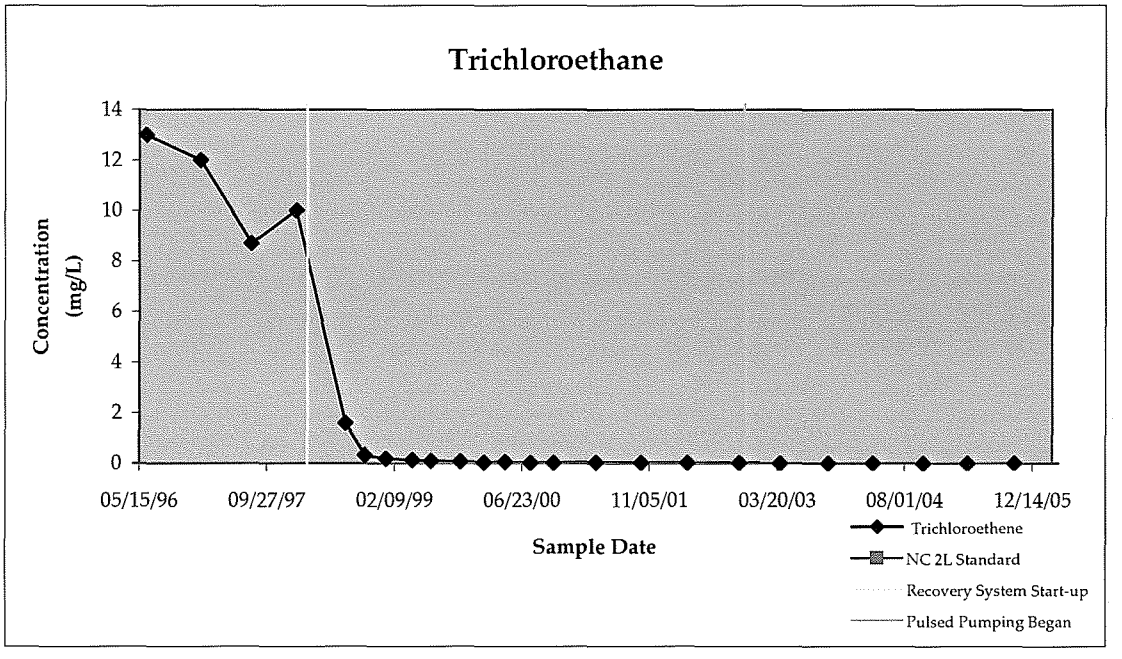
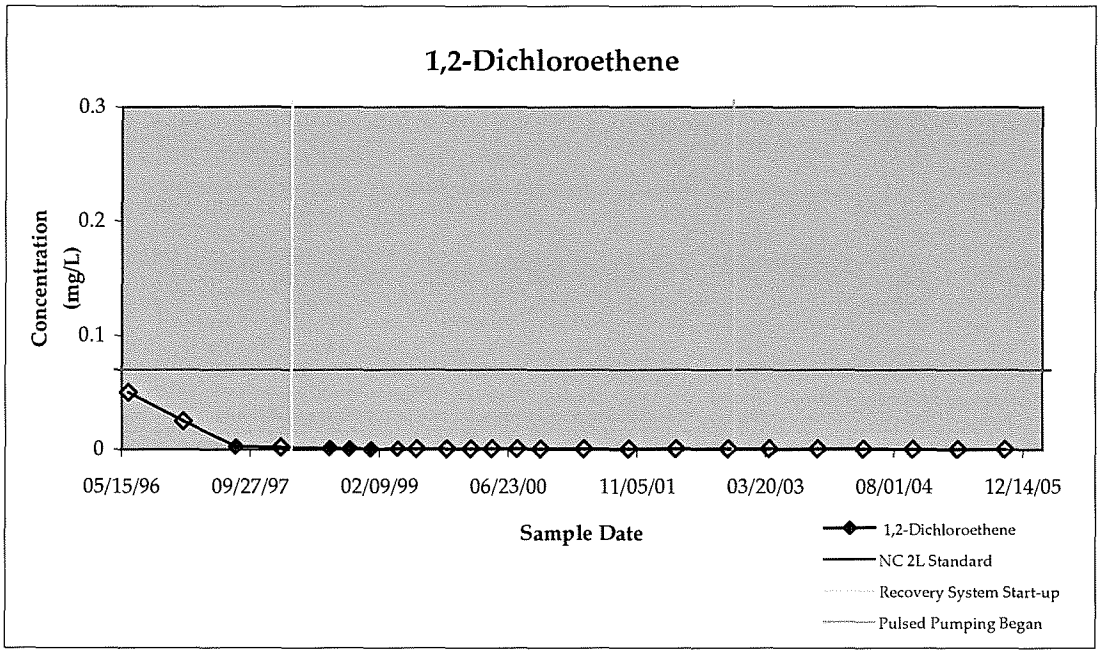
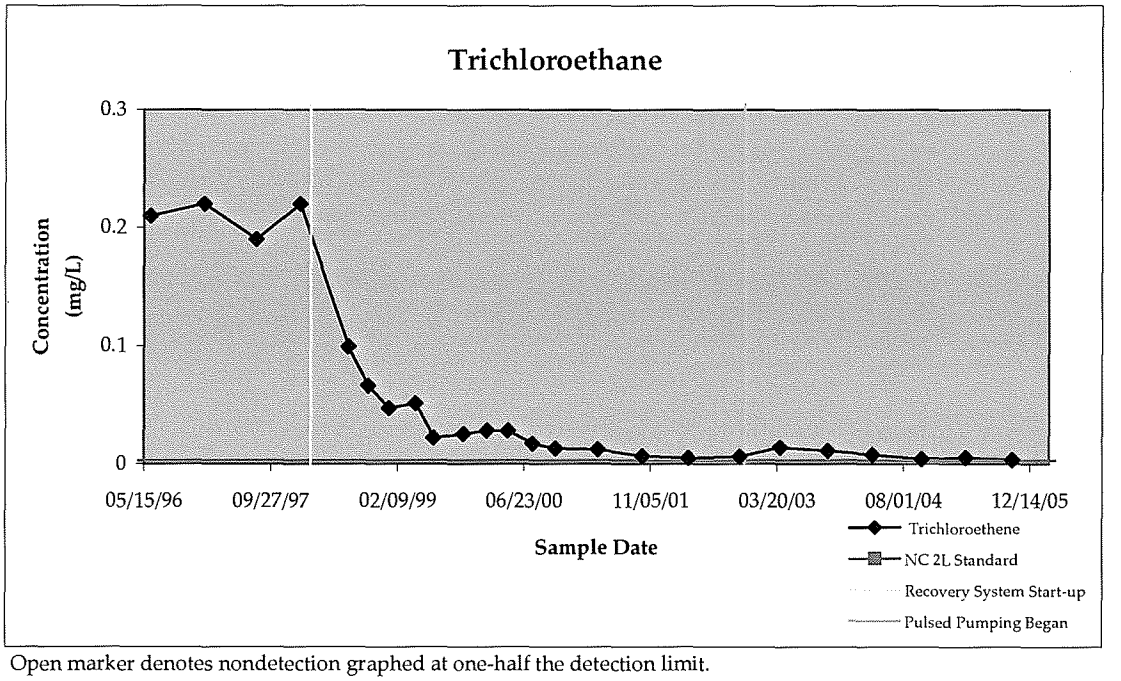
Time vs. Concentration Graphs
MW-23





Time vs. Concentration Graphs
MW-24





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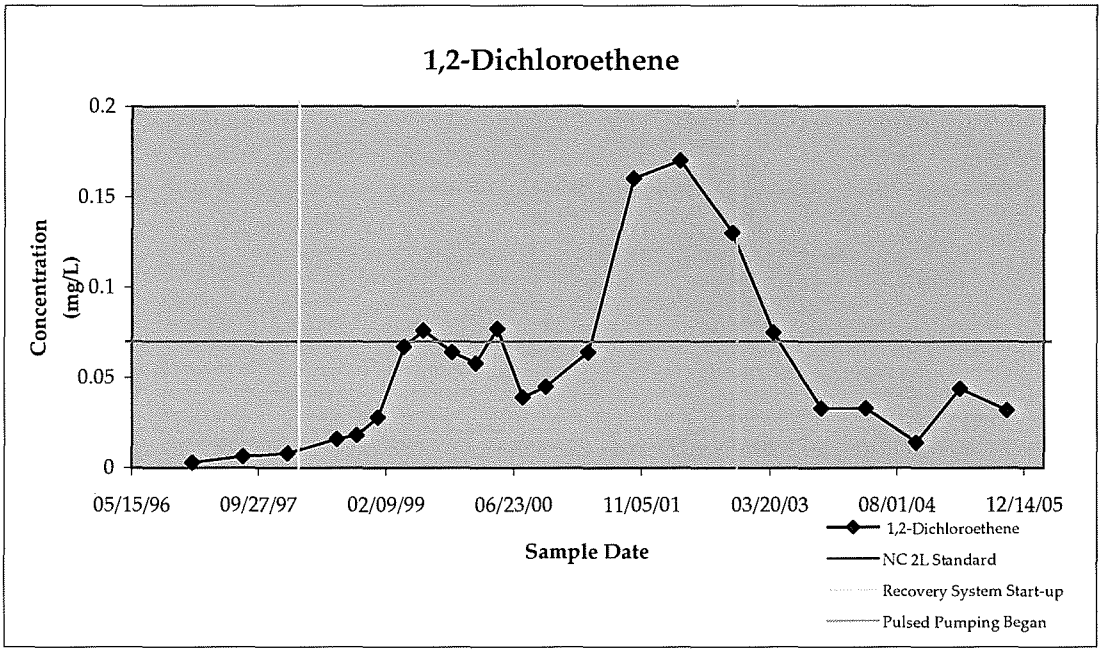
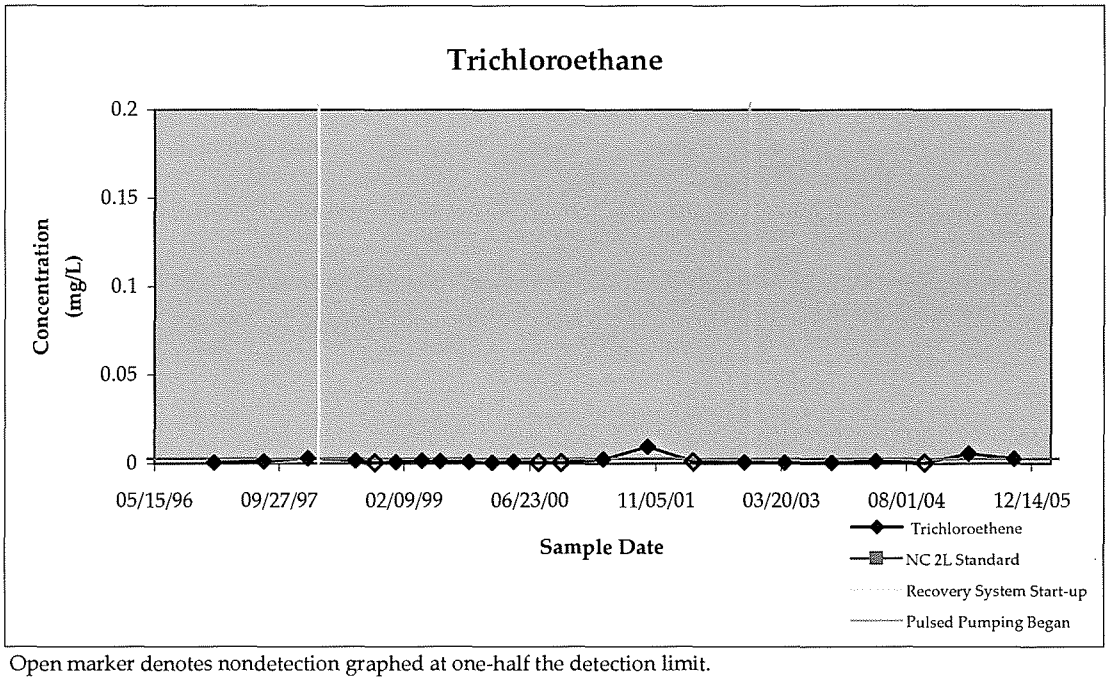
Time vs. Concentration Graphs
MW-26R





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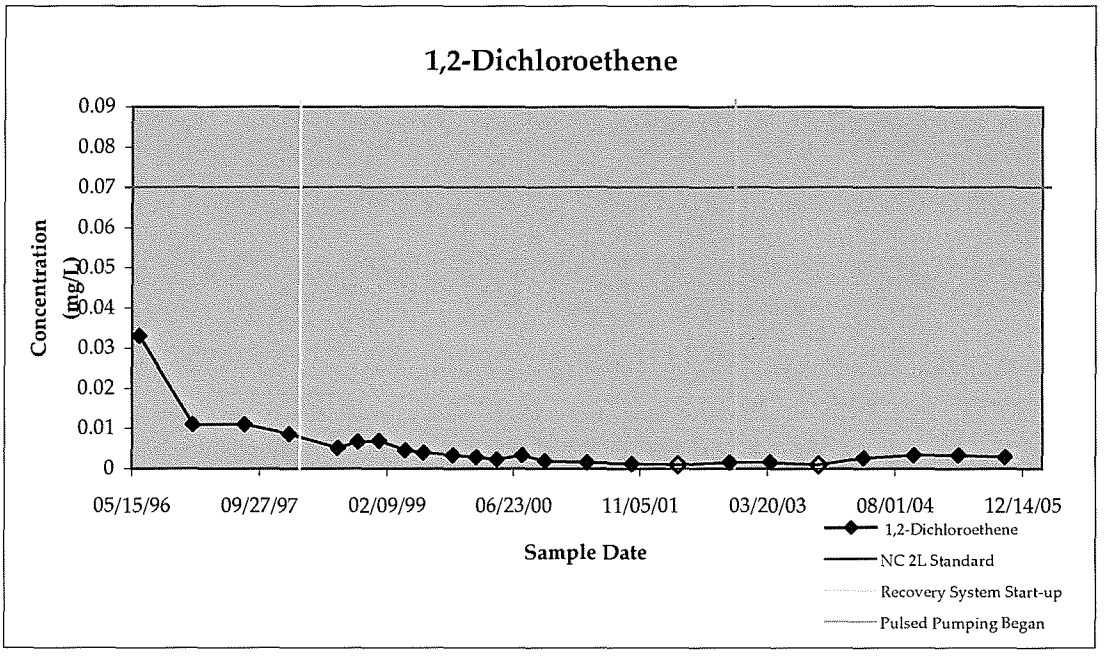
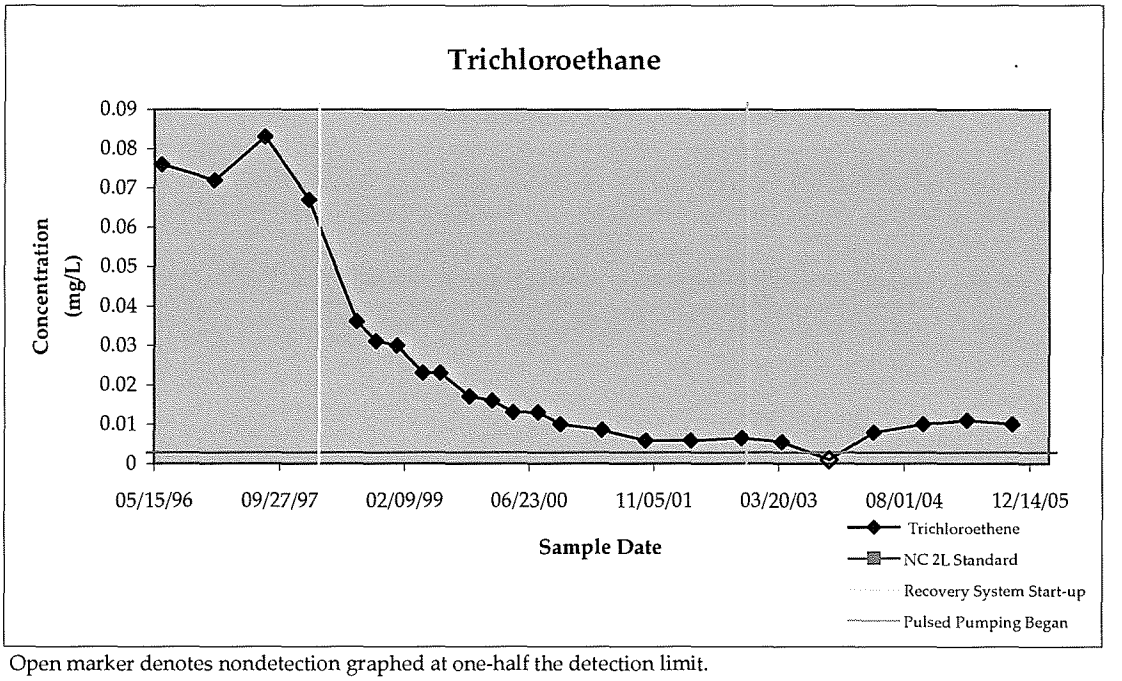
Time vs. Concentration Graphs
MW-28A





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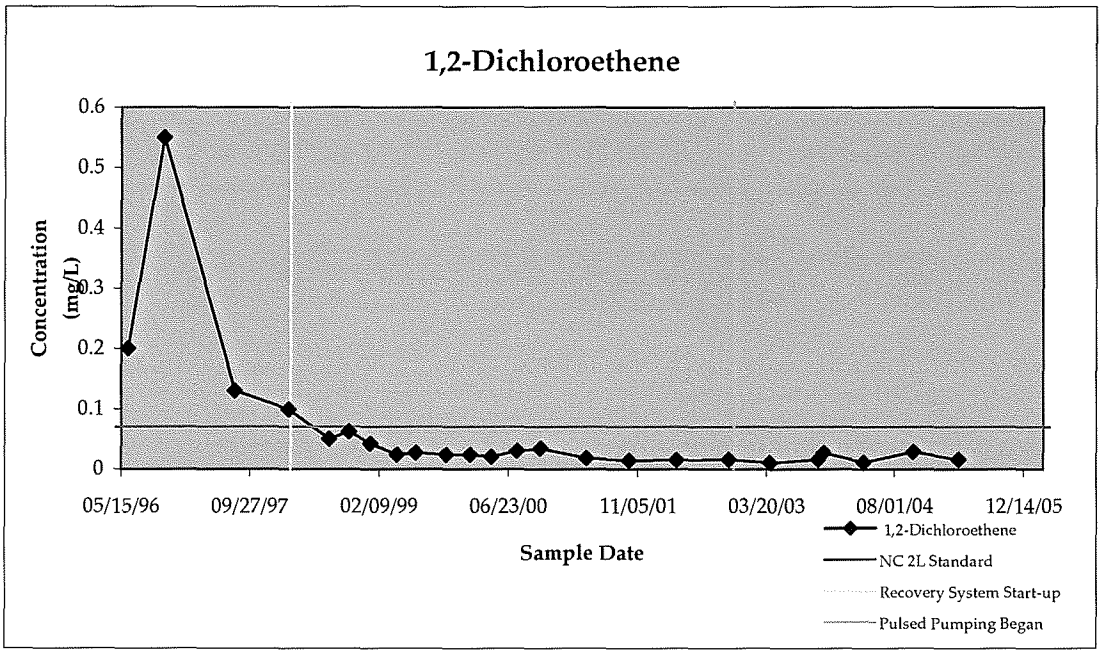
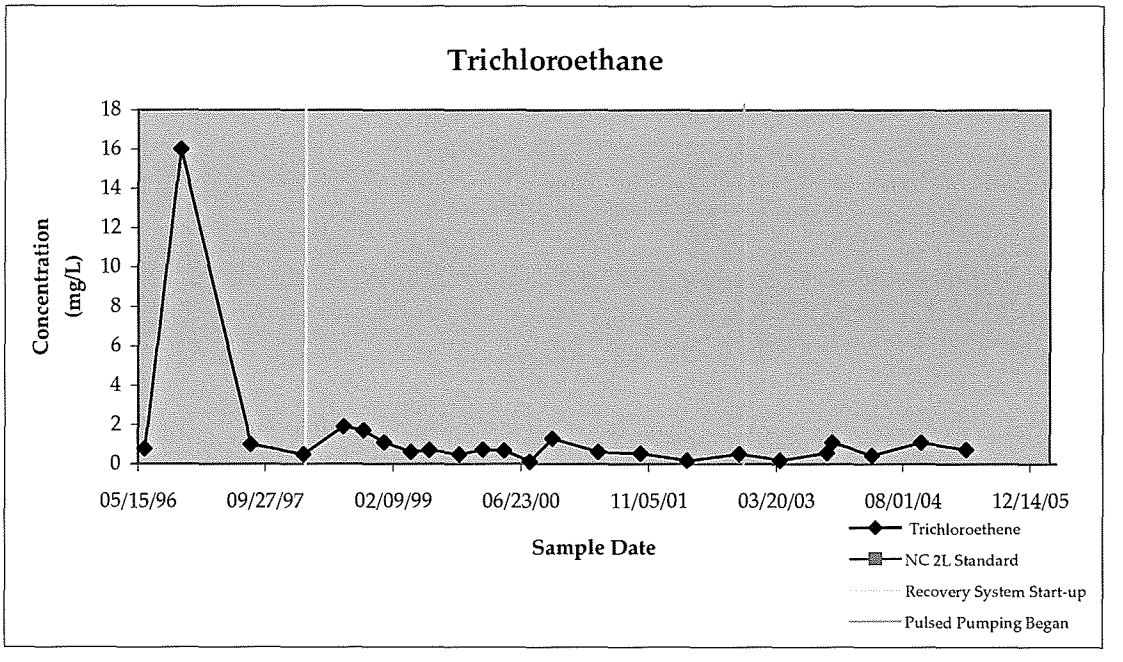
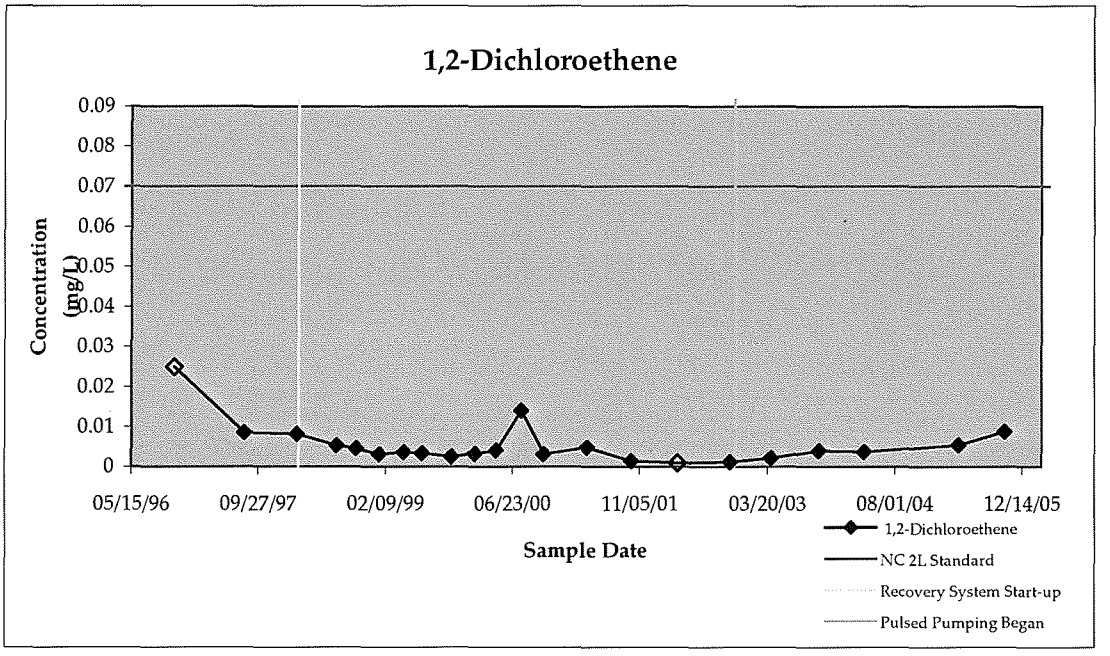
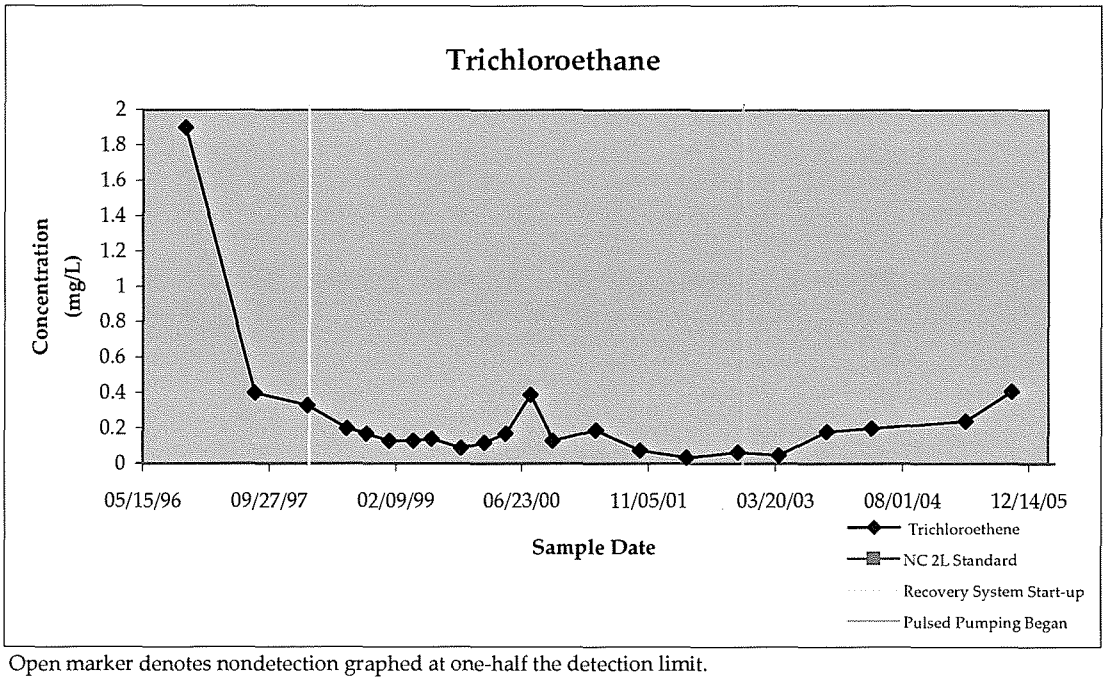
Time vs. Concentration Graphs
RW-1





Time vs. Concentration Graphs
RW-4





Open marker denotes nondetection graphed at one-half the detection limit.

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Groundwater Monitoring Report for the April 2006 Sampling Event Groundwater Incident No. 10032

Girmes Site, Formerly SKF USA Inc.

Buncombe County, North Carolina

May 2006

Prepared for
SKF USA Inc.

Michael B. Parker, P.E.
Vice President/Senior Client Service Manager

Britney C. Barnes
Project Hydrogeologist

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Certification

The hydrogeology work for the Girmes Site, formerly SKF USA Inc., in Buncombe County, North Carolina, was performed by an RMT, Inc. consulting hydrogeologist in support of RMT North Carolina, Inc.

NORTH CAROLINA
LICENSED
SEAL
249
5/23/06
GEOLOGIST
DAN O. MADISON, JR.

Dan O. Madison, Jr., P.G.
RMT, Inc.

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Executive Summary

As a part of the Corrective Action Plan (CAP), SKF USA Inc. (SKF) operates a groundwater recovery and treatment system at the former J.L. deBall Girmes of America (Girmes) site in Asheville, North Carolina for the purpose of removing volatile organic compound (VOC)-impacted groundwater. The system operated continuously from March 1998 until November 11, 2002. Since November 2002, the recovery system has operated on a pulsed pumping cycle. Each cycle consists of six weeks of system operation followed by six weeks of system shut down.

Groundwater and surface water samples are collected at the site on a semiannual basis. Groundwater elevations are measured in monitoring and recovery wells during each sampling event. The latest sampling event was conducted during the week of April 3, 2006. On the northeast side of the Girmes facility, trichloroethene (TCE) was detected in samples collected from six wells (MW-2, MW-4, MW-5, MW-5A, MW-9, and MW-20) at concentrations exceeding the North Carolina (NC) 2L standard. 1,2-Dichloroethene (1,2-DCE) was detected in samples collected from three wells (MW-4, MW-5, and MW-9) at concentrations exceeding the NC 2L standard. Vinyl chloride was detected in samples collected from wells MW-4, MW-5A, and MW-13 at concentrations exceeding the NC 2L standard. This is consistent with the sampling events conducted over the last several years.

On the southwest side of the Girmes facility, one well (MW-14) was dry and could not be sampled. Additionally, one well (MW-21) had insufficient volume of water to sample. Groundwater samples collected from six of the remaining monitoring wells (MW-18, MW-19, MW-20, MW-26R, MW-28A, and MW-29) and two recovery wells (RW-1 and RW-4) had TCE concentrations exceeding the NC 2L standard. 1,2-DCE was not detected in any of the wells on this side of the site at concentrations exceeding the NC 2L standard. Vinyl chloride was detected in samples collected from monitoring well MW-26R and recovery well RW-1 at a concentration exceeding the NC 2L standard. Tetrachloroethene (PCE) was detected in groundwater samples collected from three monitoring wells (MW-18, MW-23 and MW-28A) and recovery well RW-1 at concentrations exceeding the NC 2L standard. This is consistent with the sampling events conducted over the last several years. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility.

None of the surface water samples had detections of TCE, 1,2-DCE, or vinyl chloride.

The estimated amount of groundwater that was recovered and treated during November 2005 through April 2006 is 3.16 million gallons. It is estimated that over 40 pounds of TCE were removed during that period. Pulse pumping of the groundwater recovery system has increased the amount of TCE removed on an annual basis while significantly reducing the volume of water treated. It is recommended that pulse pumping of the recovery system continue throughout 2006.

Section 1
Introduction

The Girmes site is a former textile plant located on Old Highway 74 East in Asheville, North Carolina. Girmes owned the site from 1973 until 2001 when it was purchased by LMC, LLC. The site was formerly occupied by SKF from approximately 1960 to 1973. The North Carolina Department of Environment and Natural Resources (NC DENR) issued SKF a Notice of Violation (NOV) on April 2, 1993 (Groundwater Incident Number 10032). In response to the NOV and associated correspondence, SKF conducted comprehensive site assessment (CSA) activities in 1993 and 1994. VOCs, in particular TCE, 1,2-DCE, and vinyl chloride, were found in groundwater at the site. The results of the CSA were submitted to NC DENR in November 1994. Following the CSA, a CAP to address the VOC-impacted groundwater was prepared and submitted to NC DENR in October 1996.

RMT North Carolina, Inc. (RMT) was retained by SKF to implement the CAP. A groundwater recovery system consisting of three groundwater recovery wells and an air stripper unit was installed in 1997 and early 1998. The system began operation on March 4, 1998.

The CAP specified that groundwater elevations were to be measured in all wells on a quarterly basis. Water samples were to be collected from all of the monitoring wells, 3 recovery wells, and 4 surface water stations, on a semiannual basis. Thirteen of these monitoring wells, along with the three recovery wells were also to be sampled quarterly. The CAP specified that the samples were to be analyzed for TCE, 1,2-DCE, and vinyl chloride.

On December 11, 2000, NC DENR approved reducing the monitoring frequency from quarterly to semiannually. Beginning in 2001, the monitoring wells, recovery wells, and surface water stations were sampled on a semiannual basis. Groundwater elevations were also measured on a semiannual basis. Water samples and elevations are now collected in April and October of each year.

In August 2002, RMT proposed to switch the operation of the groundwater recovery system from continuous pumping to a pulsed pumping schedule in an effort to increase contaminant recovery. In October 2002, RMT proposed further modifications to the pumping cycle. Under the pulsed pumping schedule, the groundwater recovery system would operate one cycle per quarter. Each cycle consists of 6 weeks of pumping followed by 6 weeks of no pumping. Ms. Kay Dechant of NC DENR approved the modified pulse-pumping plan on October 14, 2002, and the first pumping cycle was initiated on November 11, 2002.

Two additional monitoring wells, MW-5A and MW-29, were installed in January 2006. Monitoring well MW-5A was installed adjacent to water table well MW-5 to assess vertical groundwater quality. Well MW-5A was installed in bedrock and extends approximately 15 feet below the bottom of well MW-5. Monitoring well MW-29 was installed adjacent to well MW-14 in order to assess groundwater flow and quality in this area of the site. Well MW-14 has been dry since the start up of the system. The two new wells are now included in the semiannual groundwater monitoring program.

The latest semiannual sampling event was conducted during the week of April 3, 2006. This report presents results of the April 2006 sampling event.

Section 2
Groundwater Elevations

The recovery system has been operating on a pulsed pumping cycle since November 11, 2002. During this monitoring period, groundwater levels were measured on April 3, 2006 prior to the groundwater sampling event. Water levels are summarized in Table 1 along with pre-startup elevations measured in January 1998.

Water levels measured on April 3, 2006, were used to construct the water table map shown on Plate 1. These water levels reflect water table conditions near the end of the system-off cycle. As specified in the CAP, hydrographs were also prepared for 12 bedrock wells (MW-4, MW-5, MW-14, MW-17, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-27, and MW-28A). These hydrographs are presented in Appendix A.

The hydrographs for wells MW-14, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, and MW-27 and historical water table maps have shown a cone of depression around the recovery wells during times of system operation. As expected, the April 2006 (see Plate 1) water levels, measured before the recovery system was restarted following an "off" cycle, do not show this cone of depression around the recovery system.

Section 3
Groundwater and Surface Water Quality

Groundwater samples were collected from 29 monitoring wells (including the new wells MW-5A and MW-29) and 2 recovery wells (RW-1 and RW-4) on April 4 through April 6, 2006. Monitoring well MW-14 was dry and was not sampled. Monitoring well MW-21 had insufficient volume of water to sample. Recovery well RW-3 has been off-line since April 2002 because of low yield and related operational problems; thus, no groundwater samples were collected at this location. Surface water samples were also collected from the four surface water stations (SW-1, SW-2, SW-3, and SW-4). Sampling locations are shown on Figure 1 and Plate 1.

Groundwater samples were analyzed for TCE, 1,2-DCE, and vinyl chloride. In addition, eight monitoring wells and two recovery wells (RW-1 and RW-4) were analyzed for PCE. Analytical results are summarized in Table 2. Laboratory analytical reports are presented in Appendix B. Table 3 and Table 4 present a 24-month summary of TCE and 1,2-DCE concentrations. Monitoring wells across the site, where TCE and 1,2-DCE have been detected, are also presented graphically in Appendix C.

3.1 Standard Monitoring Program

3.1.1 Northeast Portion of the Site

During the April sampling event, 19 monitoring wells were sampled on the northeast side of the Girmes facility (Plate 1). TCE was detected in samples collected from eight wells, with the concentrations observed above the NC 2L standard of 0.0028 mg/L in six of these wells (MW-2, MW-4, MW-5, MW-5A, MW-9, and MW-20). Since the last sampling event conducted in October 2005, TCE concentrations have increased in samples collected from well MW-9 and have remained generally unchanged in samples collected from wells MW-2, and MW-4. TCE concentrations have decreased in samples collected from wells MW-5 and MW-20 since last sampled in October 2005. A 24-month summary of the TCE concentrations for these wells is presented in Table 3 and shown graphically in Appendix C.

1,2-DCE was detected in samples collected from six monitoring wells. Concentrations of 1,2-DCE were observed above the NC 2L standard of 0.07 mg/L in only three of these five wells (MW-4, MW-5, and MW-9). The 1,2-DCE concentrations observed in samples collected from wells MW-4 and MW-9 have increased since last sampled in October 2005

while concentrations in samples collected from well MW-5 have remained relatively unchanged. A 24-month summary of the 1,2-DCE concentrations for these wells is presented in Table 4 and shown graphically in Appendix C.

Vinyl chloride was detected in samples collected from three monitoring wells (MW-4, MW-5A, and MW-13). The concentrations observed in these samples were above the NC 2L standard of 0.000015 mg/L. Historically, vinyl chloride has been detected in most samples collected from MW-13, and in some of the samples collected from MW-4 since October 1999.

3.1.2 Southwest Portion of the Site

On the southwest side of the Girmes facility, 10 monitoring wells (MW-18, MW-19, MW-22, MW-23, MW-24, MW-26R, MW-27, MW-28, MW-28A, and MW-29) and 2 recovery wells (RW-1 and RW-4) were sampled (Plate 1). Monitoring well MW-14 was dry and could not be sampled. Monitoring well MW-21 had insufficient volume of water to sample. Recovery well RW-3 was not operating during the April 2006 sampling event and therefore was not sampled.

TCE was detected in groundwater samples collected from eleven wells with concentrations observed above the NC 2L standard in five monitoring wells (MW-18, MW-19, MW-26R, MW-28A, and MW-29) and both recovery wells (RW-1 and RW-4). TCE concentrations increased in samples collected from monitoring well MW-26R since last sampled in October 2005. TCE concentrations detected in samples collected from monitoring wells MW-19 and MW-28A have remained generally unchanged since last sampled. Concentrations observed in samples collected from recovery wells RW-1 and RW-4 have decreased since October 2005. A 24-month summary of the TCE concentrations for these wells is presented in Table 3 and shown graphically in Appendix C.

Historically, the highest TCE concentration found on the southwest side of the Girmes facility was in samples collected from monitoring well MW-23, opposite Gashes Creek from the Girmes facility. In addition, PCE has been found in monitoring wells on the southwest side of Gashes Creek (see Subsection 3.2). This information indicates that VOCs found on that southwest side of the Gashes Creek are the result of a release on that side of the creek and not related to groundwater quality at the Girmes facility.

1,2-DCE was detected in groundwater samples collected from four of the monitoring wells (MW-19, MW-26R, MW-28A and, MW-29) and in both recovery wells (RW-1 and RW-4). Detected concentrations were all below the NC 2L standard. A 24-month

summary of the 1,2-DCE concentrations for these wells is presented in Table 4 and shown graphically in Appendix C.

Vinyl chloride was detected in the sample collected from monitoring well MW-26R on the southwest side of the Girmes facility at a concentration exceeding the NC 2L standard. Monitoring well MW-26R is located on Dotson's property on the southwest side of Gashes Creek. The detected concentration in monitoring well MW-26R, 0.019 mg/L, has increased slightly since the previous sampling event and remains above the NC 2L standard.

Surface water samples were collected from four surface water stations (SW-1, SW-2, SW-3, and SW-4) during the April sampling event. None of the surface water samples collected had detections of TCE, 1,2-DCE, or vinyl chloride.

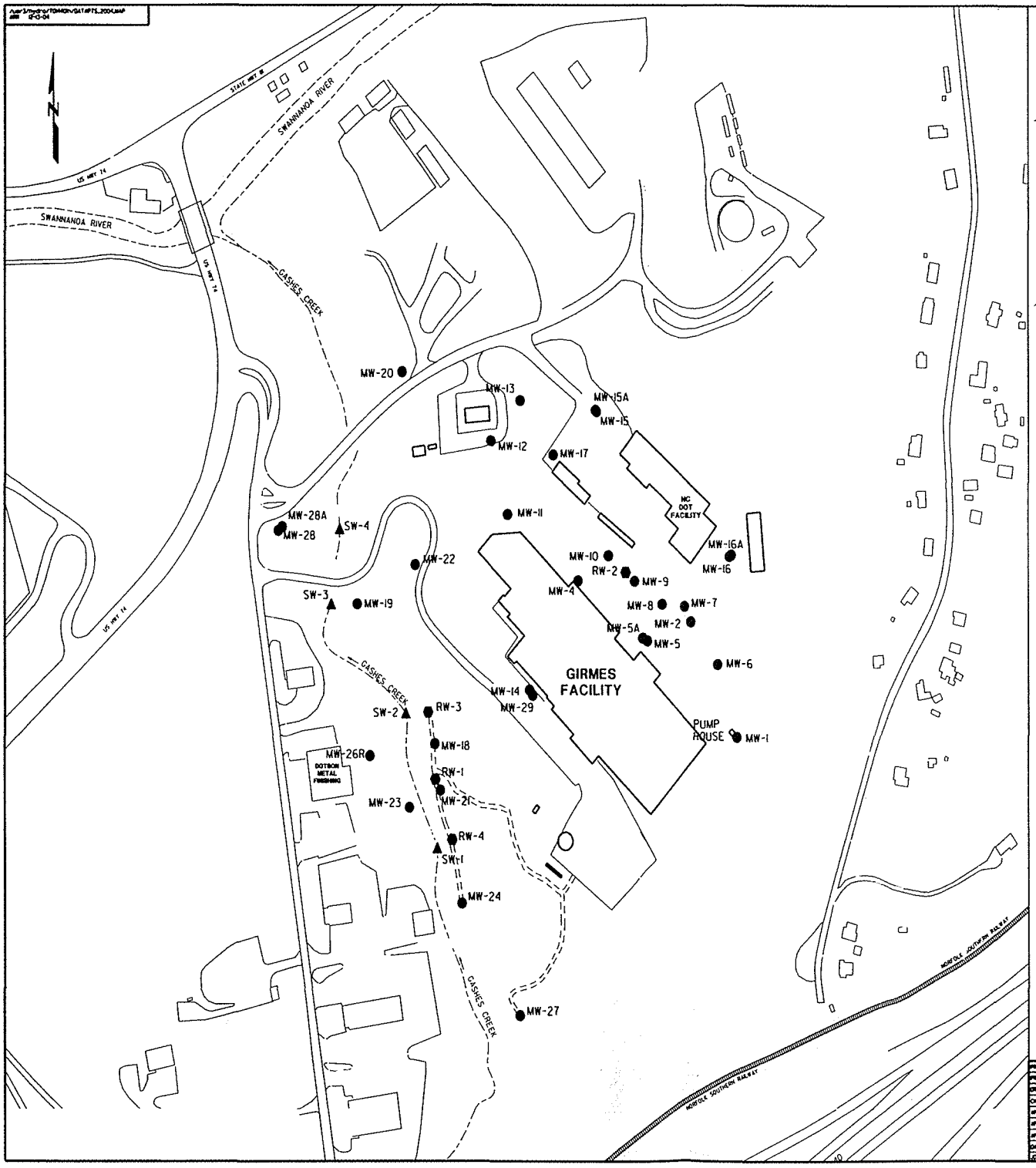
3.2 Additional Analytical Parameter

Since shortly after startup of the groundwater recovery system, in 1998 PCE was found in the influent to the treatment system. Select monitoring wells sampled during the January 1999 monitoring event were analyzed for PCE in addition to the standard analytical parameters. The January 1999 analytical results, along with historical groundwater analytical data collected at the site during the CSA, led SKF to conclude that the PCE and other VOCs found on the southwest side of Gashes Creek have no relationship to the affected groundwater found on the Girmes facility.

In the groundwater monitoring report for the January 1999 sampling event, SKF modified the groundwater monitoring program to continue monitoring all of the wells specified in the CAP according to the specified schedule. In addition to TCE, 1,2-DCE, and vinyl chloride, recovery wells RW-1, RW-3, and RW-4 and select monitoring wells would also be sampled for PCE.

During the April 2006 sampling event, eight monitoring wells (MW-18, MW-19, MW-23, MW-24, MW-26R, MW-28, MW-28A, and MW-29) and the two operating recovery wells (RW-1 and RW-4) were analyzed for PCE. Analytical results are included in Table 2. PCE was detected in samples collected from monitoring wells MW-23 and MW-28A, (located on the west side of Gashes Creek), MW-18 (located near recovery well RW-1), and recovery well (RW-1) at concentrations above the NC 2L standards. The PCE concentrations detected in samples collected from monitoring wells MW-23 and MW-28A have increased since last sampled in October 2005. The PCE concentration observed in the sample collected from recovery well (RW-01) has also increased since last sampled in April 2005. When operating, recovery wells RW-1 and RW-4 recover groundwater from the southwest side of Gashes Creek.

The analytical results for PCE are consistent with the results from previous sampling events conducted since January 1999. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility.



LEGEND

▲ SW-1	SURFACE WATER SAMPLING LOCATION
● MW-15	MONITORING WELL LOCATION
----------	PROPERTY LINE - OTHER
—900—	TOPOGRAPHIC CONTOUR

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES WERE INCLUDED AS PART OF THE BASE MAP.

0 100 200 300 400
SCALE IN FEET

PROJECT MGR:	B.G. HADSON
PREPARED BY:	J. S. BECHTOLD
DRAWN BY:	J. S. BECHTOLD
CHECKED BY:	B.G. HADSON
APPROVED BY:	
APPROVED BY:	B. G. HADSON
APPROVED BY:	
DATE:	DECEMBER 2004
JOB NO:	7044

RMT
60 Haywood Boulevard
P.O. Box 6178
Greenville, SC 29606
864/ 28-0030

LOCATION OF DATA POINTS

GIRMES SITE, formerly SKF USA
ASHEVILLE, NORTH CAROLINA

SCALE: AS NOTED

FIGURE NO. 1

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF CASING[1]	WATER TABLE ELEVATION AND DATE OF MEASUREMENT		
		01/21/98*	10/03/05	04/03/06
MW-1	2,123.16	2,066.52	2,063.78	2,062.63
MW-2	2,074.52	2,053.45	2,052.82	2,052.70
MW-4	2,122.38	2,061.38	2,062.64	2,063.56
MW-5	2,121.44	2,058.17	2,058.94	2,058.33
MW-5A[2]	NM	NA	NA	NA
MW-6	2,102.22	2,058.96	2,057.04	2,056.57
MW-7	2,071.17	2,052.76	2,052.29	2,052.34
MW-8	2,075.22	2,054.34	2,054.44	2,054.88
MW-9	2,072.29	2,053.32	2,054.22	2,054.21
MW-10	2,076.30	2,052.95	2,052.04	2,053.23
MW-11	2,109.60	2,046.88	2,042.46	2,041.46
MW-12	2,040.65	2,038.44	2,031.76	2,033.26
MW-13	2,044.67	2,037.38	2,034.48	2,034.29
MW-14	2,119.88	<2040.20	DRY	DRY
MW-15	2,058.15	2,046.02	2,045.89	2,045.68
MW-15A	2,058.16	2,047.38	2,046.35	2,046.23
MW-16	2,059.22	2,052.79	2,052.61	2,052.61
MW-16A	2,059.33	2,053.16	2,052.88	2,052.84
MW-17	2,056.71	2,050.77	2,047.32	2,049.36
MW-18	2,036.36	2,023.81	DRY	2,020.22
MW-19	2,037.74	2,018.32	2,015.43	2,016.68
MW-20	2,027.36	2,013.59	2,012.59	2,012.42
MW-21	2,036.74	2,022.53	2,007.87	2,020.56
MW-22	2,082.12	2,038.87	2,037.22	2,028.96
MW-23	2,027.54	2,020.41	2,017.54	2,019.02
MW-24	2,035.05	2,021.21	2,019.31	2,020.30
MW-26R	2,021.35	2,015.12	2,016.99	2,016.48
MW-27	2,051.08	2,025.26	2,023.03	2,023.46
MW-28	2,022.48	2,012.11	2,011.22	2,011.38
MW-28A	2,022.69	2,012.36	2,010.90	2,011.14
MW-29 [2]	NM	NA	NA	NA
RW-1	2,031.70	NM	NM	NM
RW-2	2,071.70	NM	2,051.01	2,051.19
RW-3	2,033.40	NM	NM	NM
RW-4	2,032.10	NM	NM	NM

Elevations are in feet above mean sea level.

[1] Top of casing measured in feet above mean sea level.

[2] Top of casing elevation not yet surveyed for these wells installed in January 2006

* Pre-startup

NM - Not Measured, well not accessible.

NA - Not Applicable

NOTE: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Table 2
Analytical Results for Groundwater and Surface Water Samples

STATION	SAMPLE DATE	TCE	1,2-DCE, TOTAL	VINYL CHLORIDE	PCE
NC 2L Standard		**0.0028**	**0.07**	**0.000015**	**0.0007**
MW-01	05-Apr-06	<0.001	<0.001	<0.001	NA
MW-02	05-Apr-06	**0.0095**	<0.001	<0.001	NA
MW-04	06-Apr-06	**0.23**	**0.307**	**0.0027**	NA
MW-05	06-Apr-06	**3.7**	**0.3**	<0.025	NA
MW-05A	06-Apr-06	**7.2**	**0.016**	**0.075**	NA
MW-06	05-Apr-06	<0.001	<0.001	<0.001	NA
MW-07	05-Apr-06	**0.0023**	<0.001	<0.001	NA
MW-08	05-Apr-06	<0.001	<0.001	<0.001	NA
MW-09	05-Apr-06	**0.9**	**0.1**	<0.001	NA
MW-10	05-Apr-06	**0.0019**	**0.034**	<0.001	NA
MW-11	05-Apr-06	<0.001	<0.001	<0.001	NA
MW-12	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-13	04-Apr-06	<0.001	<0.001	**0.0062**	NA
MW-15	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-15A	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-16	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-16A	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-17	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-18	05-Apr-06	**0.0094**	<0.001	<0.001	**0.0015**
MW-19	04-Apr-06	**0.036**	**0.0014**	<0.001	<0.001
MW-20	04-Apr-06	**0.0061**	**0.0045**	<0.001	NA
MW-22	04-Apr-06	<0.001	<0.001	<0.001	NA
MW-23	05-Apr-06	**0.0015**	<0.001	<0.001	**0.0025**
MW-24	05-Apr-06	**0.0026**	<0.001	<0.001	<0.001
MW-26R	05-Apr-06	**0.0065**	**0.044**	**0.019**	<0.001
MW-26R (DU-06202)	06-Apr-06	**0.0053**	**0.043**	**0.018**	<0.001
MW-27	05-Apr-06	<0.001	<0.001	<0.001	NA
MW-28	04-Apr-06	<0.001	<0.001	<0.001	<0.001
MW-28A	04-Apr-06	**0.011**	**0.0028**	<0.001	**0.02**
MW-28A (DU-06201)	06-Apr-06	**0.01**	**0.0029**	<0.001	**0.02**
MW-29	06-Apr-06	**0.3**	**0.0082**	<0.002	<0.002
RW-1	06-Apr-06	**0.75**	**0.02**	**0.019**	**0.014**
RW-4	06-Apr-06	**0.29**	**0.0053**	<0.0025	<0.0025
SW-1	05-Apr-06	<0.001	<0.001	<0.001	NA
SW-2	05-Apr-06	<0.001	<0.001	<0.001	NA
SW-3	05-Apr-06	<0.001	<0.001	<0.001	NA
SW-4	05-Apr-06	<0.001	<0.001	<0.001	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

< - Concentration less than the Quantitation Limit.

NA - Not analyzed.

Shading indicates sample exceeds NC 2L Standard.

Table 3

Twenty-four Month Summary of Trichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE				
	MAR-04	OCT-04	APR-05	OCT-05	APR-06
MW-1	ND	ND	ND	ND	ND
MW-2	0.0028	0.0031	0.0031 j	0.0094	0.0095
MW-4	0.38	0.28	0.28 j	0.28	0.23
MW-5	7	5.9	5.3 j	5.6	3.7
MW-5A[2]	NA	NA	NA	NA	7.2
MW-6	ND	ND	ND	ND	ND
MW-7	ND	0.0022	ND	ND	0.0023
MW-8	ND	ND	ND	0.0011	ND
MW-9	0.38	0.19	0.25 j	0.73	0.9
MW-10	0.00079 J	ND	ND	0.001	0.0019
MW-11	0.0025	0.0017	0.0015 j	0.0014	ND
MW-12	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	ND	ND
MW-14	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	ND
MW-15A	ND	0.0011	ND	ND	ND
MW-16	ND	ND	ND	ND	ND
MW-16A	ND	ND	ND	ND	ND
MW-17	ND	ND	ND	ND	ND
MW-18	0.0067	NA	0.0023 j	NA	0.0094
MW-19	0.02	0.0085	ND	0.032	0.036
MW-20	0.0063	0.008	0.0068 j	0.0082	0.0061
MW-21	0.0085	NA	0.0093 j	NA	NA
MW-22	ND	ND	ND	ND	ND
MW-23	0.0022	0.0021	0.0038 j	0.0011	0.0015
MW-24	0.0078	0.0042	0.0053 j	0.0033	0.0026
MW-26R	0.0014	ND	0.0056 j	0.0026	0.0065
MW-27	ND	ND	ND	ND	ND
MW-28	ND	ND	ND	ND	ND
MW-28A	0.0079	0.01	0.011 j	0.01	0.011
MW-29[2]	NA	NA	NA	NA	0.3
RW-1	0.44	1.1	0.72	1.3	0.75
RW-3	NA	NA	NA	NA	NA
RW-4	0.2	0.2	0.24	0.41	0.29

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

[2] Well installed January 2006, thus no data available prior to April 2006

J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.

j - Concentration considered an estimate based on data validation.

NA - Not analyzed.

ND - Not detected.

Table 4

Twenty-four Month Summary of 1,2-Dichloroethene Concentrations Detected in Groundwater[1]

WELL	SAMPLING DATE				
	MAR-04	OCT-04	APR-05	OCT-05	APR-06
MW-1	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND
MW-4	0.18	0.2	0.18	0.26	0.307
MW-5	0.36	0.34	0.27	0.31	0.3
MW-5A[2]	NA	NA	NA	NA	0.016
MW-6	ND	ND	ND	ND	ND
MW-7	ND	ND	ND	ND	ND
MW-8	ND	ND	ND	ND	ND
MW-9	0.016	0.0097	0.017	0.042	0.1
MW-10	0.011	0.0085	0.01	0.015	0.034
MW-11	ND	ND	ND	ND	ND
MW-12	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	ND	ND
MW-14	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	ND
MW-15A	ND	ND	ND	ND	ND
MW-16	ND	ND	ND	ND	ND
MW-16A	ND	ND	ND	ND	ND
MW-17	ND	ND	ND	ND	ND
MW-18	ND	NA	ND	NA	ND
MW-19	ND	ND	ND	0.0012	0.0014
MW-20	0.0036	0.0041	0.0058	0.0051	0.0045
MW-21	0.0026	NA	0.0019	NA	NA
MW-22	ND	ND	ND	ND	ND
MW-23	ND	ND	ND	ND	ND
MW-24	ND	ND	ND	ND	ND
MW-26R	0.033	0.014	0.044	0.032	0.044
MW-27	ND	ND	ND	ND	ND
MW-28	ND	ND	ND	ND	ND
MW-28A	0.0026	0.0033	0.0034	0.0029	0.0028
MW-29[2]	NA	NA	NA	NA	0.0082
RW-1	0.011	0.029	0.016	0.032	0.02
RW-3	NA	NA	NA	NA	NA
RW-4	0.0037	0.0035	0.0054	0.0088	0.0053

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.

[2] Well installed January 2006, thus no data available prior to April 2006

J - Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.

NA - Not analyzed.

ND - Not detected.

Section 4
Recovery System Performance

The groundwater recovery system is designed to use three recovery wells to capture affected groundwater. Water from these wells is pumped to an air stripper, where VOCs are removed, and treated water is discharged into Gashes Creek per National Pollutant Discharge Elimination System (NPDES) Permit No. NC0086088. During the April 2002 sampling event it was discovered that the pump in well RW-3 was not operating. Attempts to restart the pump were unsuccessful. Well RW-3 has a yield of about ½ gallon per minute (gpm). Such a low flow in combination with the amount of vertical head between the pump and the land surface results in stress on the pump and its electrical system. This, in turn, resulted in pump failure. The remaining two wells (RW-1 and RW-4) recover approximately 15 and 7 gpm, respectively, and account for nearly all the yield from the groundwater recovery system. Since recovery well RW-3 contributes very little to the overall yield of the groundwater recovery system, it has remained offline since April 2002 and groundwater recovery continues to include only wells RW-1 and RW-4.

The groundwater recovery system is now operating on a pulse pumping cycle of "on" for 6 weeks, followed by "off " for 6 weeks. This pulsed pumping cycle operational mode was initiated on November 11, 2002.

Influent and effluent to the stripper is sampled on a monthly basis during "on" pumping cycles. Effluent flow is recorded continuously. The analytical results for the influent and effluent are used along with the flow data to estimate the amount of trichloroethene removed each month. Monthly volumes of treated groundwater for the past twelve months (ending April 30, 2006) and the estimated amount of TCE removed since system startup in March 1998 through April 2006 are summarized in Table 5. The estimated amount of groundwater that was recovered and treated during November 2005 through April 2006 is 3.16 million gallons. It is estimated that over 40 pounds of TCE were removed during November 2005 through April 2006. As shown on Table 5, the amount of water treated and TCE removed varied from month to month during this time period. This variance is due to the number of days that the system was in operation each month.

Table 6 summarizes the amount of water treated and the estimated amount of TCE removed each year since operation of the recovery system began in March 1998. For the years 1998 through 2002, the estimated amount of TCE removed declined from 167.7 pounds per year to 31.47 pounds per year. After pulse pumping of the system began in November 2002, the

estimated amount of TCE increased to 38.3 pounds per year in 2003, even further to 55.0 pounds per year in 2004, and to 78.7 pounds in 2005. While pulse pumping of the groundwater recovery system increased the amount of TCE removed, the volume of water removed during both years is significantly less than removed during years of full operation.

Table 5
Operations Summary for the Last 12-Month Period, Ending April 30, 2006

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
04/05	26	1.02	11.0	26 days of operation for month of April
05/05	16	0.596	5	16 days of normal operation for month of May
06/05	0	0	0[1]	System off line for the month of June
07/05	26	1.076	10.8	Off-line 5 days – power failure
08/05	14	0.606	6.1	14 days of normal operation for August
09/05	0	0	0[1]	System off-line for the month of September
10/05	29	1.265	16.9	29 days of normal operation for October
11/05	16	0.622	8.3	Normal operation for 16 days
12/05	0	0	0[1]	System off-line for the month of December
01/06	29	1.23	15.4	Normal operation for 29 days
02/06	18	0.655	8.7[2]	Normal operation for 18 days
03/06	0	0	0[1]	System off-line for the month of March
04/06	28	0.65[4]	8[2]	Estimated data
	2,308	**88.42**	**604.74**	**Total since system startup**

[1] Indicates system was off-line for entire month.
[2] Estimated based on historical data

Table 6
Operations Summary by Year

YEAR	WATER TREATED (million gallons)	TCE REMOVED (pounds)
1998	14.82	167.7
1999	16.33	75.2
2000	12.067	81.77
2001	12.53	45.1
2002	10.7	31.47
2003	6.46	38.3
2004	6.99	55.0
2005	6.94	78.7
2006 (1)	2.53	32.1

(1) January through April 2006

Section 5
Conclusions and Recommendations

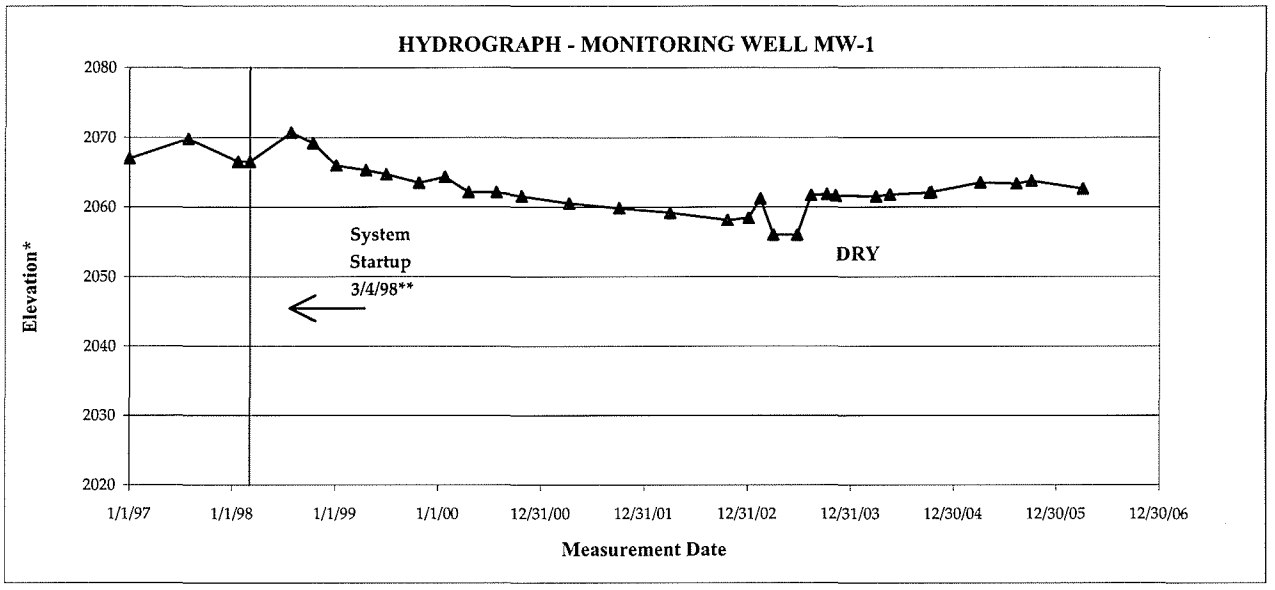
Data gathered during the past semiannual monitoring period indicates that the groundwater recovery system is operating effectively. Pulse pumping of the system appears to have increased the volume of VOCs removed annually while decreasing the volume of groundwater removed. Pulse pumping of the groundwater recovery system continues to save costs associated with operations and maintenance of the system. Recovered groundwater continues to be treated and discharged to Gashes Creek in compliance with the NPDES permit.

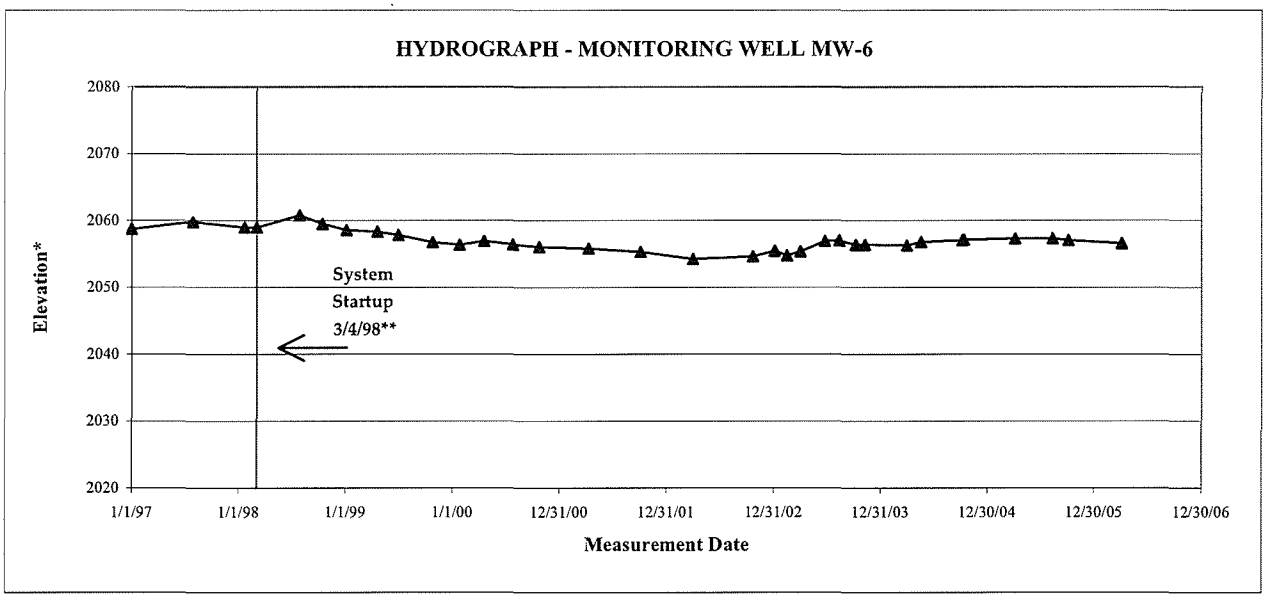
Based on these conclusions, RMT offers the following recommendations:

- Continue monitoring groundwater and surface water quality on a semiannual basis.
- Continue operating the groundwater recovery and treatment system on a 6-week on/ 6-week off pulse cycle.

In addition to continuing to operate the groundwater recovery and treatment system, the data collected during the installation of new monitoring wells MW-5A and MW-29 will be used in conjunction with data from the remaining monitoring wells to develop a plan for enhancing the remediation strategy for the site. This remediation strategy will be discussed with the agency during May 2006.

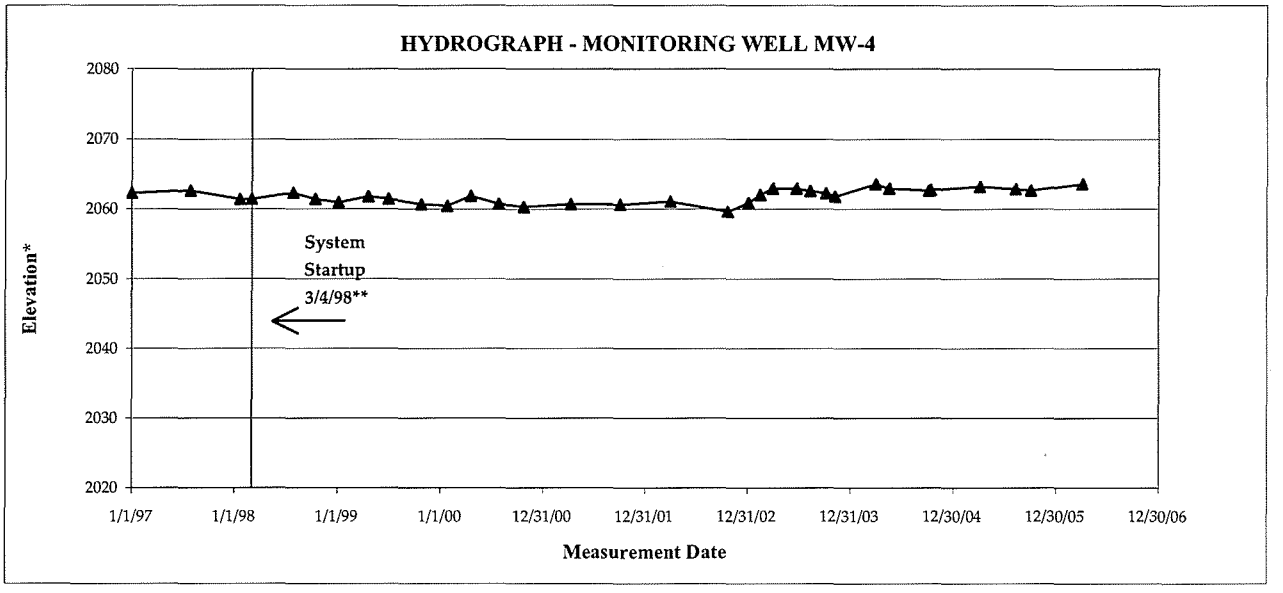
Appendix A
Hydrographs for Bedrock Wells

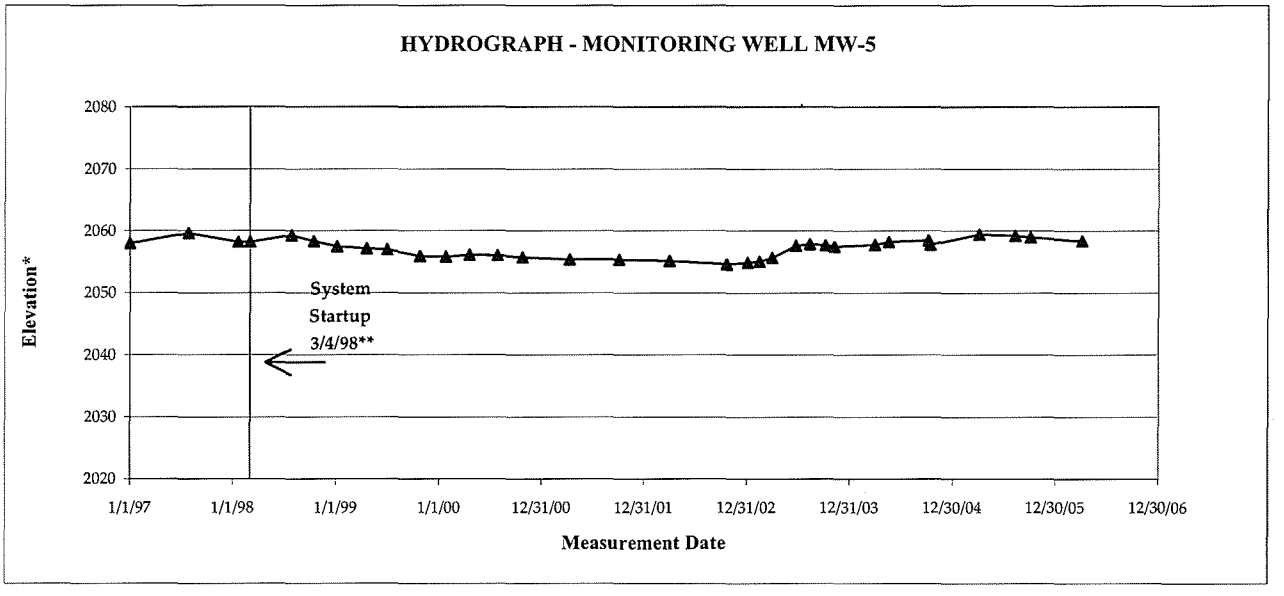




* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up





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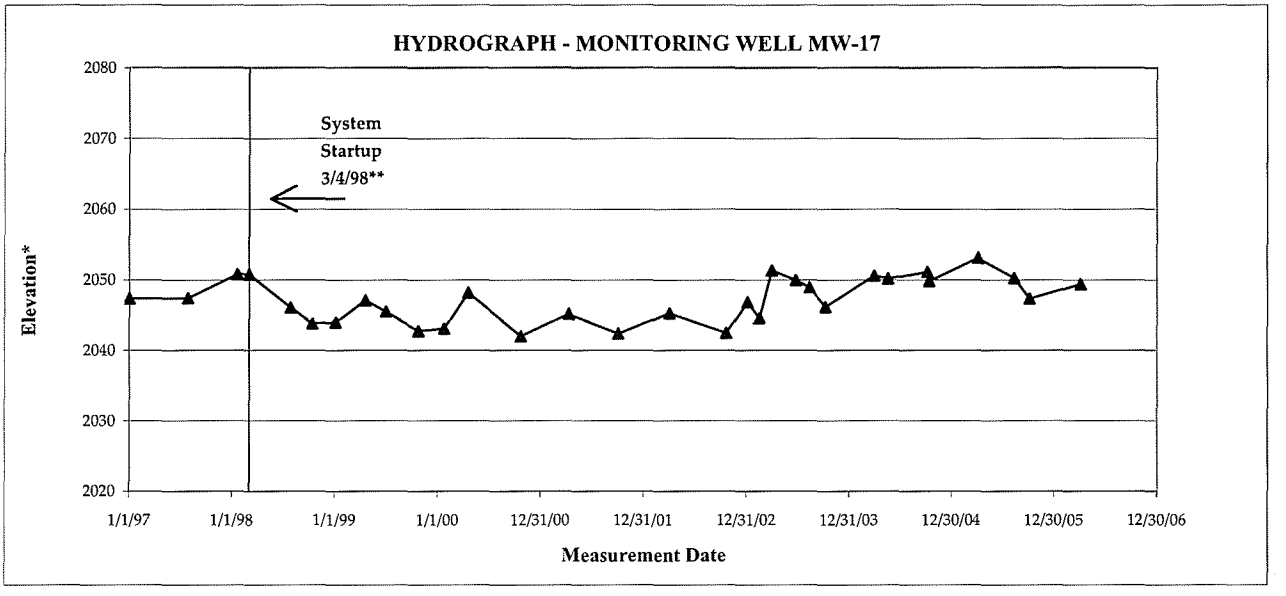

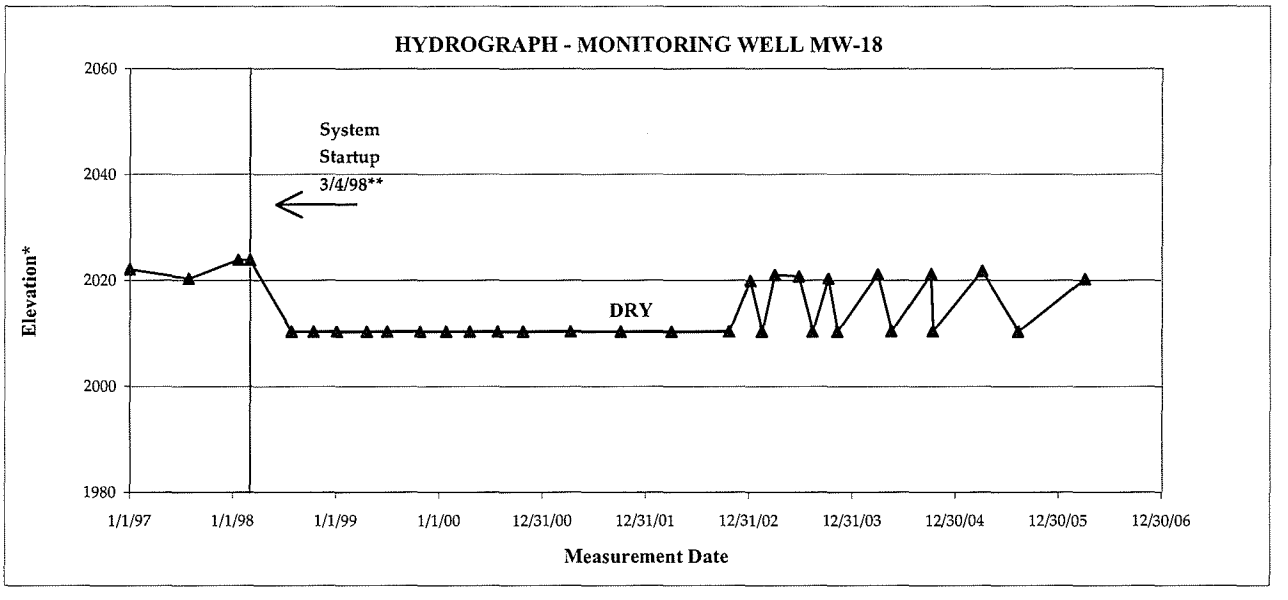

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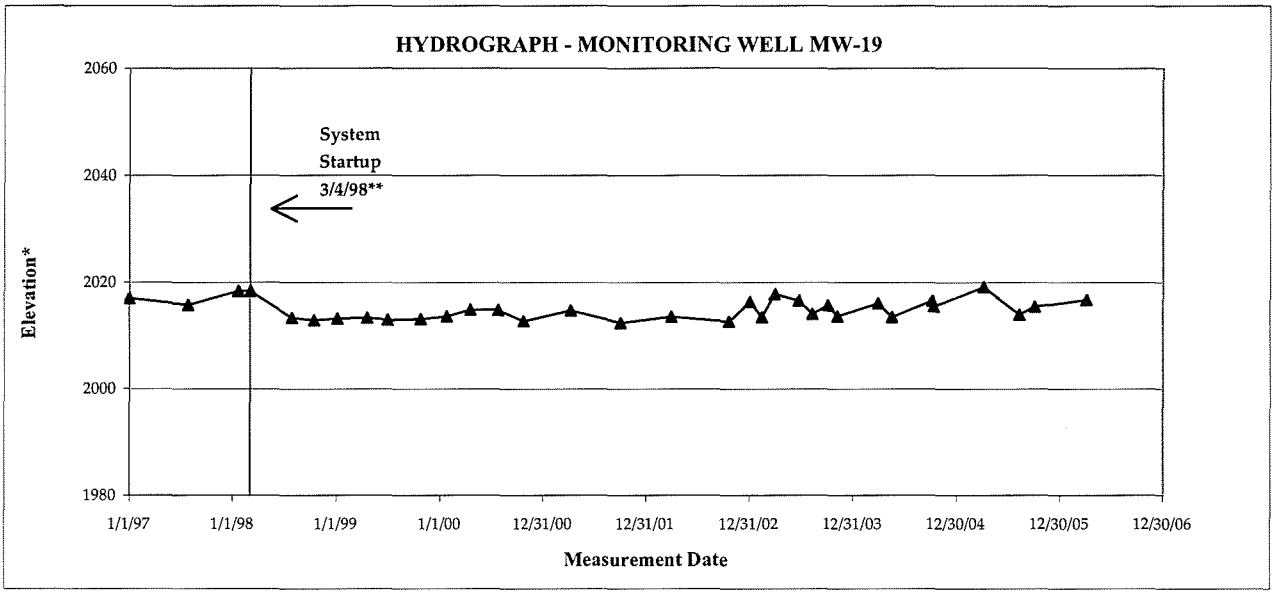

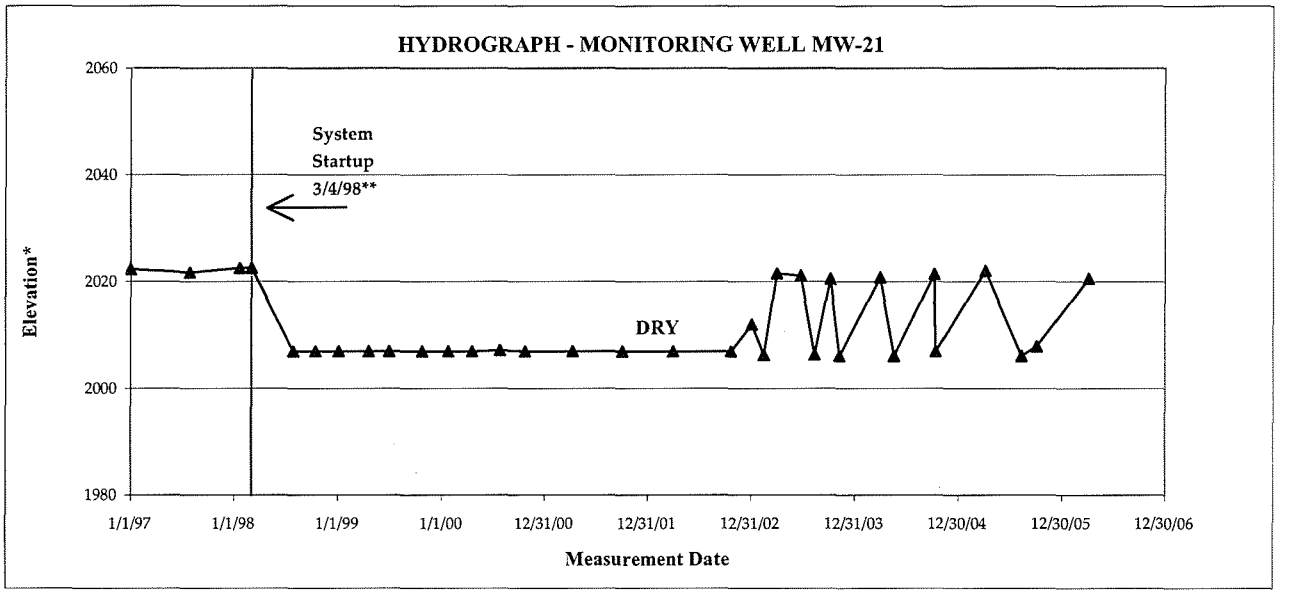

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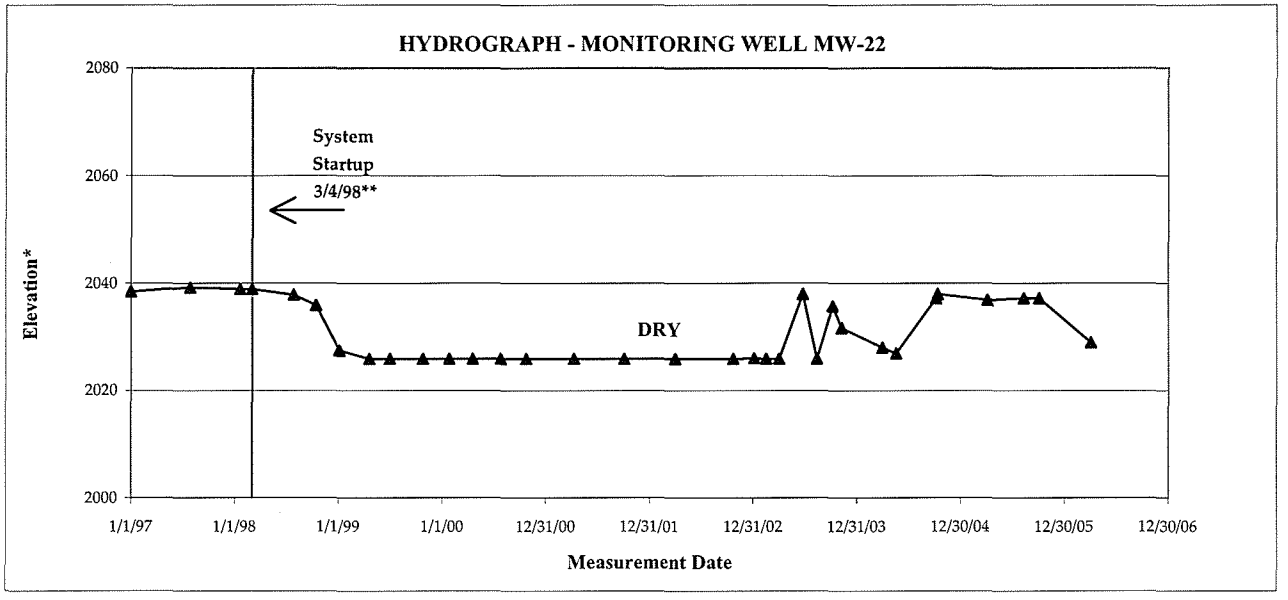

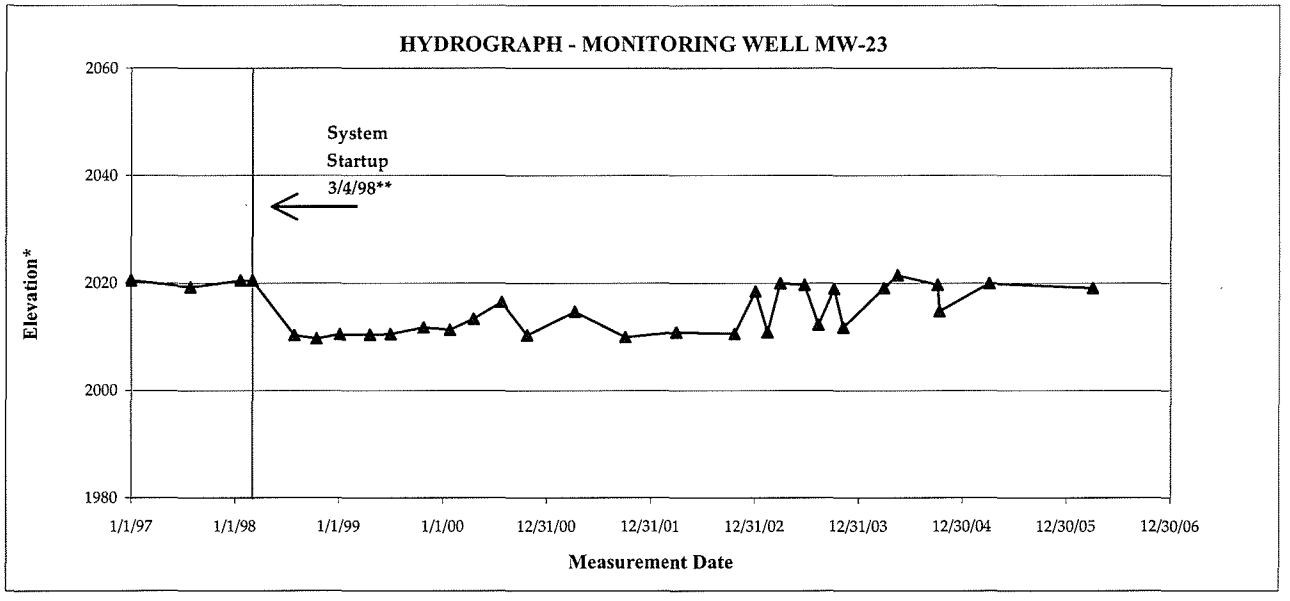

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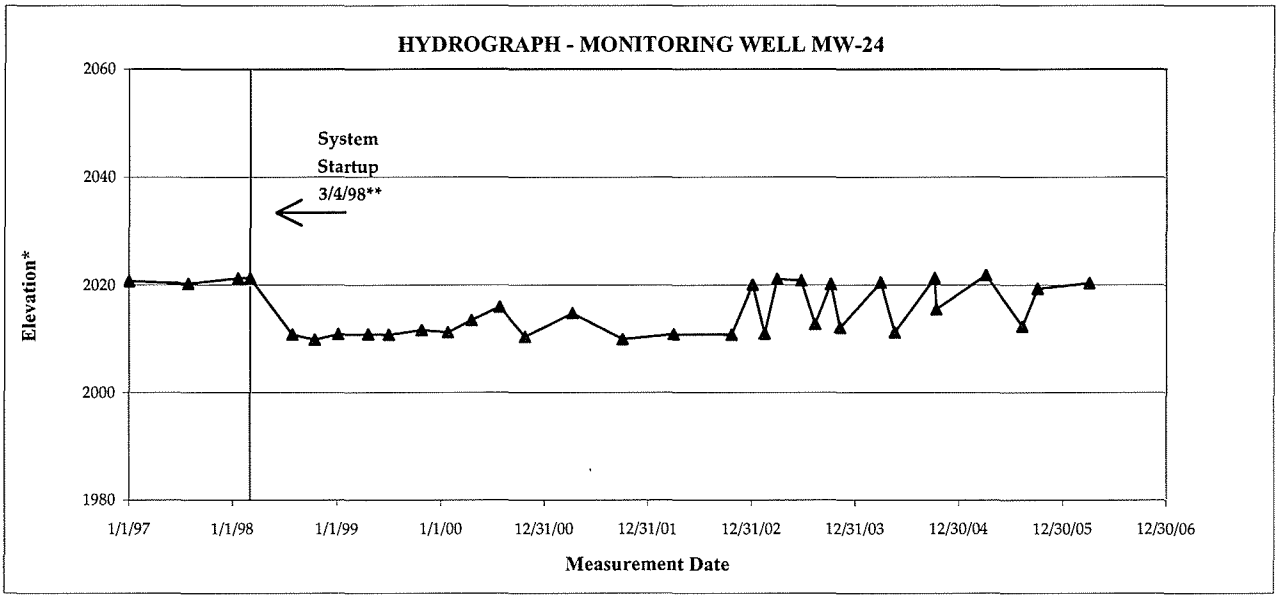

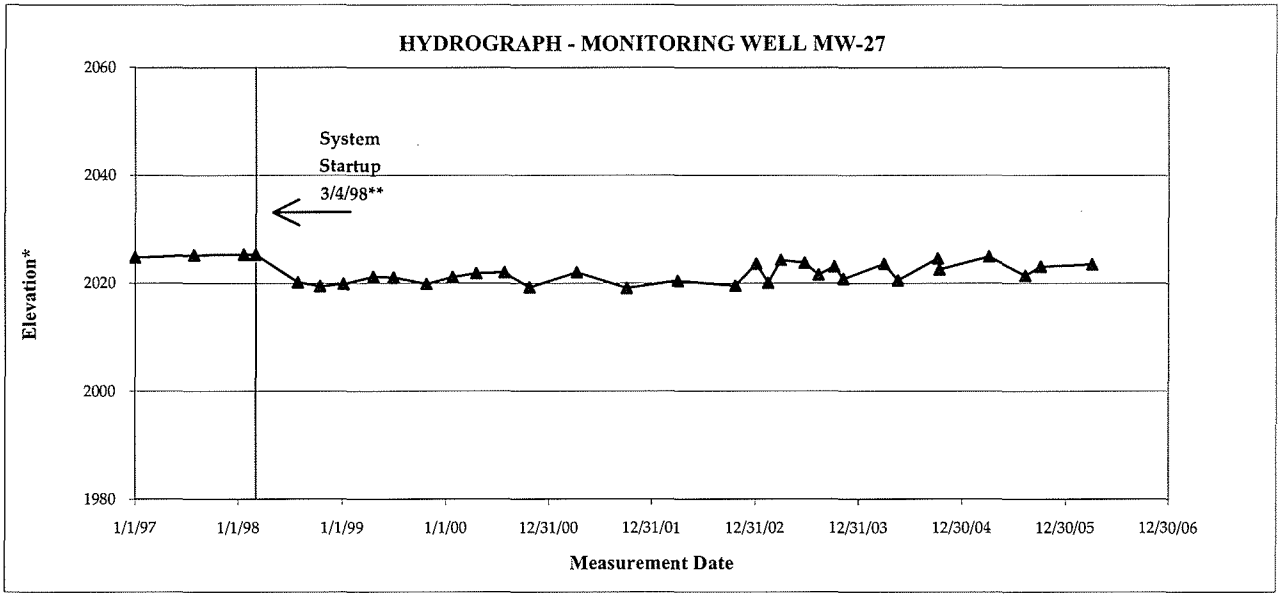

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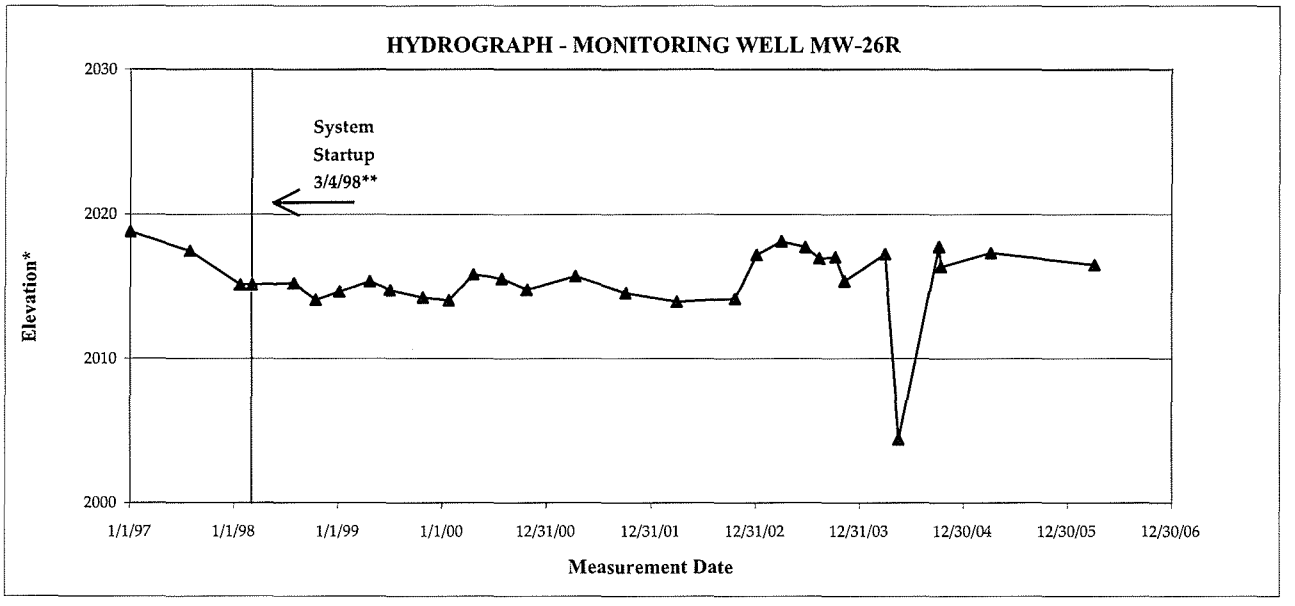

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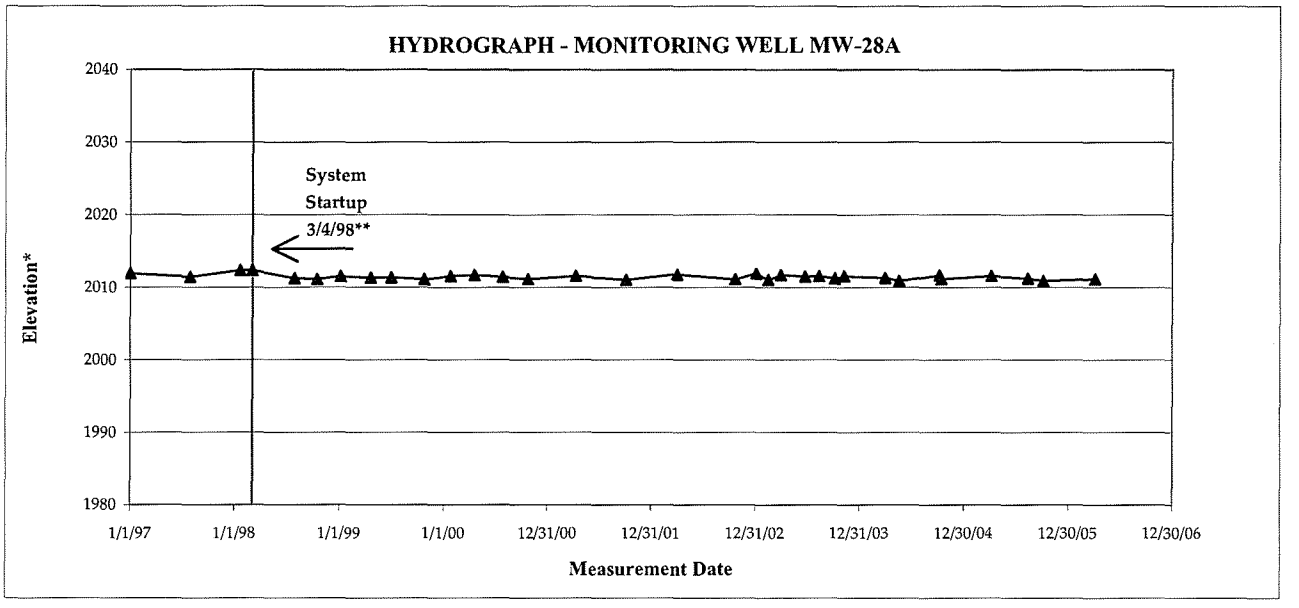

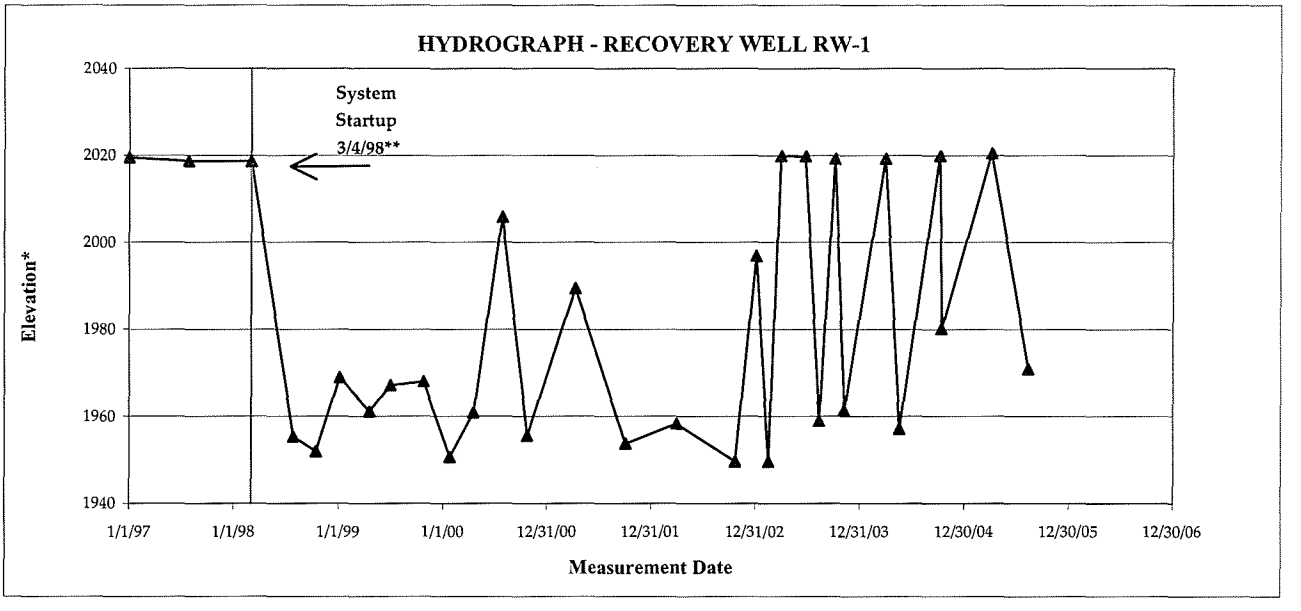

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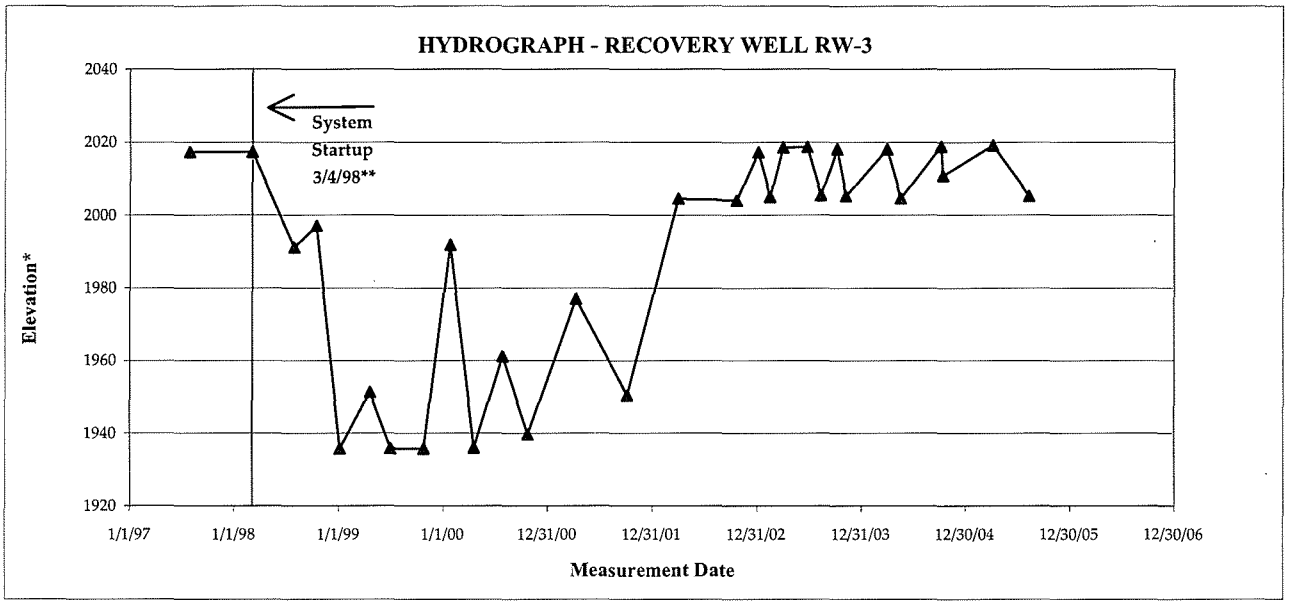

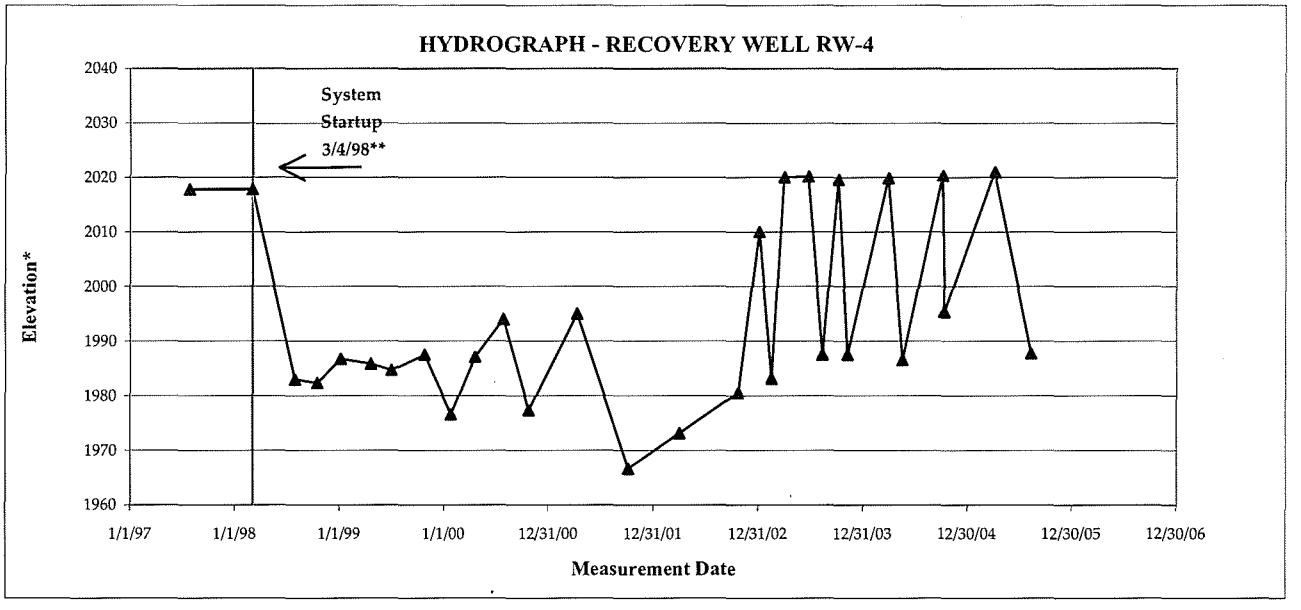

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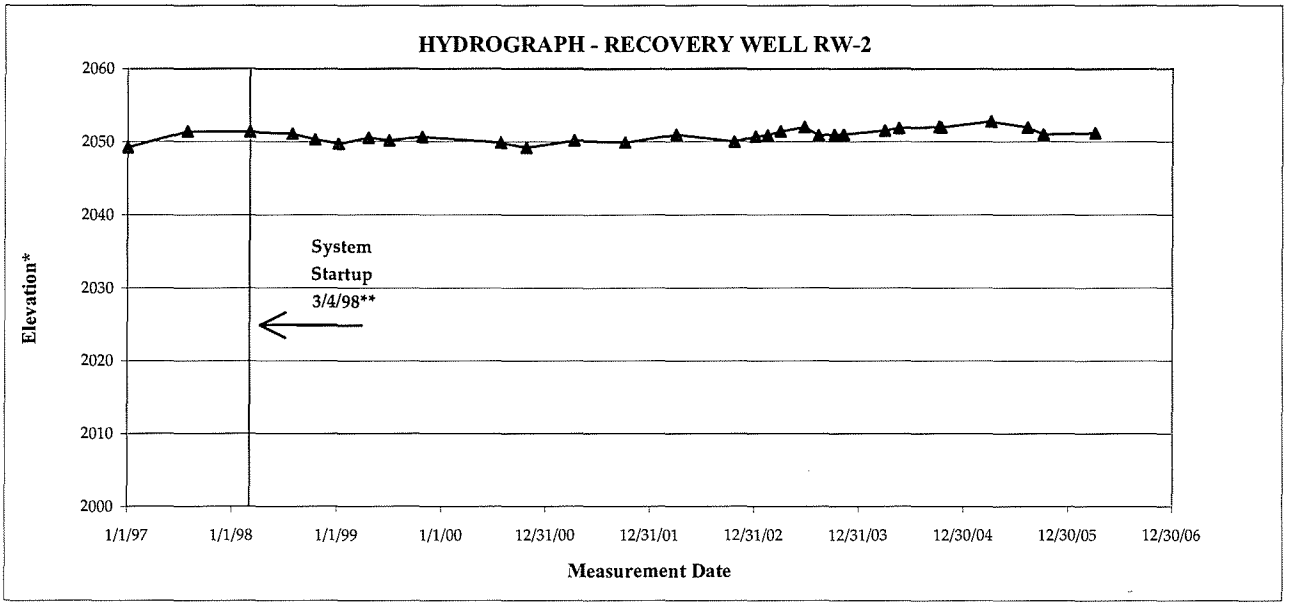

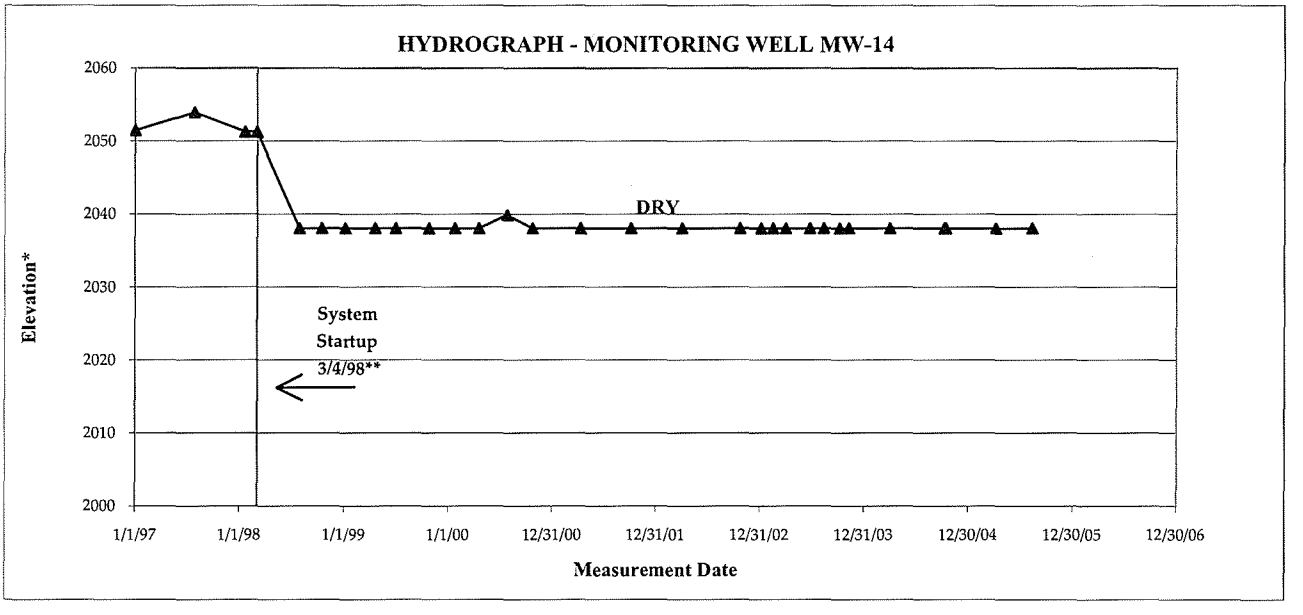

* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

Appendix B
Laboratory Analytical Reports

Pace Analytical™
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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

May 18, 2006

Mr. Dan Madison
RMT
30 Patewood Drive
Suite 100
Greenville, SC 29615

RE: Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Dear Mr. Madison:

Enclosed are the analytical results for sample(s) received by the laboratory on April 8, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Richard Swartz
Richard.Swartz@pacelabs.com
Project Manager

Enclosures

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SAMPLE SUMMARY

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
92116926-001	926845348	MW-27	Water	04/05/06 12:00	04/08/06 09:30
92116926-002	926845355	MW-26R	Water	04/05/06 12:45	04/08/06 09:30
92116926-003	926845363	MW-23	Water	04/05/06 13:25	04/08/06 09:30
92116926-004	926845371	SW-4	Water	04/05/06 13:30	04/08/06 09:30
92116926-005	926845389	SW-3	Water	04/05/06 13:40	04/08/06 09:30
92116926-006	926845397	SW-2	Water	04/05/06 14:00	04/08/06 09:30
92116926-007	926845405	SW-1	Water	04/05/06 14:15	04/08/06 09:30
92116926-008	926845413	MW-18	Water	04/05/06 14:25	04/08/06 09:30
92116926-009	926845421	MW-24	Water	04/05/06 15:00	04/08/06 09:30
92116926-010	926845439	MW-4	Water	04/06/06 10:00	04/08/06 09:30
92116926-011	926845447	MW-19	Water	04/04/06 15:50	04/08/06 09:30
92116926-012	926845454	MW-22	Water	04/04/06 16:15	04/08/06 09:30
92116926-013	926845462	MW-10	Water	04/05/06 08:55	04/08/06 09:30
92116926-014	926845470	MW-9	Water	04/05/06 09:05	04/08/06 09:30
92116926-015	926845488	MW-8	Water	04/05/06 09:25	04/08/06 09:30
92116926-016	926845496	MW-7	Water	04/05/06 09:40	04/08/06 09:30
92116926-017	926845504	MW-2	Water	04/05/06 10:00	04/08/06 09:30
92116926-018	926845512	MW-6	Water	04/05/06 10:25	04/08/06 09:30
92116926-019	926845520	MW-1	Water	04/05/06 10:50	04/08/06 09:30
92116926-020	926845538	MW-11	Water	04/05/06 11:20	04/08/06 09:30
92116926-021	926845546	MW-16A	Water	04/04/06 11:00	04/08/06 09:30
92116926-022	926845553	MW-16	Water	04/04/06 11:15	04/08/06 09:30
92116926-023	926845561	MW-15A	Water	04/04/06 12:30	04/08/06 09:30
92116926-024	926845579	MW-15	Water	04/04/06 12:00	04/08/06 09:30
92116926-025	926845587	MW-17	Water	04/04/06 13:30	04/08/06 09:30
92116926-026	926845595	MW-12	Water	04/04/06 14:00	04/08/06 09:30
92116926-027	926845603	MW-13	Water	04/04/06 14:20	04/08/06 09:30
92116926-028	926845611	MW-20	Water	04/04/06 14:35	04/08/06 09:30
92116926-029	926845629	MW-28	Water	04/04/06 15:00	04/08/06 09:30
92116926-030	926845637	MW-28A	Water	04/04/06 15:20	04/08/06 09:30
92116926-031	926845645	MW-5	Water	04/06/06 10:30	04/08/06 09:30
92116926-032	926845652	RBLK-06201	Water	04/06/06 10:20	04/08/06 09:30
92116926-033	926845660	MW-5A	Water	04/06/06 11:10	04/08/06 09:30
92116926-034	926845678	MW-29	Water	04/06/06 13:40	04/08/06 09:30
92116926-035	926845686	RW-1	Water	04/06/06 14:10	04/08/06 09:30
92116926-036	926845694	RW-4	Water	04/06/06 14:15	04/08/06 09:30
92116926-037	926845702	DU-06201	Water	04/06/06	04/08/06 09:30
92116926-038	926845710	DU-06202	Water	04/06/06	04/08/06 09:30
92116926-039	926845728	TBLK-06201	Water	04/06/06	04/08/06 09:30

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Fax: 828.252.4618

SAMPLE ANALYTE COUNT

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
92116926-001	926845348	MW-27	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-002	926845355	MW-26R	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-003	926845363	MW-23	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-004	926845371	SW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-005	926845389	SW-3	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-006	926845397	SW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-007	926845405	SW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-008	926845413	MW-18	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-009	926845421	MW-24	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-010	926845439	MW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-011	926845447	MW-19	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-012	926845454	MW-22	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-013	926845462	MW-10	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-014	926845470	MW-9	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-015	926845488	MW-8	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-016	926845496	MW-7	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-017	926845504	MW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-018	926845512	MW-6	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-019	926845520	MW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-020	926845538	MW-11	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-021	926845546	MW-16A	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-022	926845553	MW-16	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-023	926845561	MW-15A	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-024	926845579	MW-15	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-025	926845587	MW-17	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-026	926845595	MW-12	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-027	926845603	MW-13	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-028	926845611	MW-20	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-029	926845629	MW-28	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-030	926845637	MW-28A	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-031	926845645	MW-5	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-032	926845652	RBLK-06201	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-033	926845660	MW-5A	8260X WL92	GC/MS VOCs by 8260, low level	9
92116926-034	926845678	MW-29	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-035	926845686	RW-1	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-036	926845694	RW-4	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-037	926845702	DU-06201	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-038	926845710	DU-06202	8260X WL92	GC/MS VOCs by 8260, low level	10
92116926-039	926845728	TBLK-06201	8260X WL92	GC/MS VOCs by 8260, low level	10

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845348 | Project Sample Number: 92116926-001 | Date Collected: 04/05/06 12:00
Client Sample ID: MW-27 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 16:22	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 16:22	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 16:22	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/10/06 16:22	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 16:22	MCK	75-01-4		
Toluene-d8 (S)	98	%		04/10/06 16:22	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/10/06 16:22	MCK	460-00-4		
Dibromofluoromethane (S)	94	%		04/10/06 16:22	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		04/10/06 16:22	MCK	17060-07-0		

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845355 | Project Sample Number: 92116926-002 | Date Collected: 04/05/06 12:45
Client Sample ID: MW-26R | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	44.	ug/l	1.0	04/10/06 16:46	MCK	540-59-0		
cis-1,2-Dichloroethene	43.	ug/l	1.0	04/10/06 16:46	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 16:46	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/10/06 16:46	MCK	127-18-4		
Trichloroethene	6.5	ug/l	1.0	04/10/06 16:46	MCK	79-01-6		
Vinyl chloride	19.	ug/l	1.0	04/10/06 16:46	MCK	75-01-4		
Toluene-d8 (S)	97	%		04/10/06 16:46	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/10/06 16:46	MCK	460-00-4		
Dibromofluoromethane (S)	94	%		04/10/06 16:46	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/10/06 16:46	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845363 Project Sample Number: 92116926-003 Date Collected: 04/05/06 13:25
Client Sample ID: MW-23 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 17:10	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 17:10	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 17:10	MCK	156-60-5		
Tetrachloroethene	2.5	ug/l	1.0	04/10/06 17:10	MCK	127-18-4		
Trichloroethene	1.5	ug/l	1.0	04/10/06 17:10	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 17:10	MCK	75-01-4		
Toluene-d8 (S)	98	%		04/10/06 17:10	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/10/06 17:10	MCK	460-00-4		
Dibromofluoromethane (S)	93	%		04/10/06 17:10	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/10/06 17:10	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845371 | Project Sample Number: 92116926-004 | Date Collected: 04/05/06 13:30
Client Sample ID: SW-4 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 17:34	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 17:34	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 17:34	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/10/06 17:34	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 17:34	MCK	75-01-4		
Toluene-d8 (S)	97	%		04/10/06 17:34	MCK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		04/10/06 17:34	MCK	460-00-4		
Dibromofluoromethane (S)	94	%		04/10/06 17:34	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		04/10/06 17:34	MCK	17060-07-0		

Asheville Certification IDs
NC Wastewater 40
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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845389 Project Sample Number: 92116926-005 Date Collected: 04/05/06 13:40
Client Sample ID: SW-3 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 17:59	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 17:59	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 17:59	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/10/06 17:59	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 17:59	MCK	75-01-4		
Toluene-d8 (S)	97	%		04/10/06 17:59	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		04/10/06 17:59	MCK	460-00-4		
Dibromofluoromethane (S)	96	%		04/10/06 17:59	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		04/10/06 17:59	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845397 | Project Sample Number: 92116926-006 | Date Collected: 04/05/06 14:00
Client Sample ID: SW-2 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 18:23	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 18:23	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 18:23	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/10/06 18:23	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 18:23	MCK	75-01-4		
Toluene-d8 (S)	98	%		04/10/06 18:23	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		04/10/06 18:23	MCK	460-00-4		
Dibromofluoromethane (S)	96	%		04/10/06 18:23	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		04/10/06 18:23	MCK	17060-07-0		

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Fax: 828.252.4618

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845405 | Project Sample Number: 92116926-007 | Date Collected: 04/05/06 14:15
Client Sample ID: SW-1 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 18:47	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 18:47	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 18:47	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/10/06 18:47	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 18:47	MCK	75-01-4		
Toluene-d8 (S)	99	%		04/10/06 18:47	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		04/10/06 18:47	MCK	460-00-4		
Dibromofluoromethane (S)	96	%		04/10/06 18:47	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/10/06 18:47	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845413 | Project Sample Number: 92116926-008 | Date Collected: 04/05/06 14:25
Client Sample ID: MW-18 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 19:11	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 19:11	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 19:11	MCK	156-60-5		
Tetrachloroethene	1.5	ug/l	1.0	04/10/06 19:11	MCK	127-18-4		
Trichloroethene	9.4	ug/l	1.0	04/10/06 19:11	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 19:11	MCK	75-01-4		
Toluene-d8 (S)	95	%		04/10/06 19:11	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/10/06 19:11	MCK	460-00-4		
Dibromofluoromethane (S)	94	%		04/10/06 19:11	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/10/06 19:11	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845421 | Project Sample Number: 92116926-009 | Date Collected: 04/05/06 15:00
Client Sample ID: MW-24 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 19:34	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 19:34	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 19:34	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/10/06 19:34	MCK	127-18-4		
Trichloroethene	2.6	ug/l	1.0	04/10/06 19:34	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 19:34	MCK	75-01-4		
Toluene-d8 (S)	98	%		04/10/06 19:34	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		04/10/06 19:34	MCK	460-00-4		
Dibromofluoromethane (S)	95	%		04/10/06 19:34	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		04/10/06 19:34	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845439 | Project Sample Number: 92116926-010 | Date Collected: 04/06/06 10:00
Client Sample ID: MW-4 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	310	ug/l	1.0	04/12/06 08:51	MSF	540-59-0		
cis-1,2-Dichloroethene	280	ug/l	2.0	04/12/06 08:51	MSF	156-59-2		
trans-1,2-Dichloroethene	27.	ug/l	2.0	04/12/06 08:51	MSF	156-60-5		
Trichloroethene	230	ug/l	2.0	04/12/06 08:51	MSF	79-01-6		
Vinyl chloride	2.7	ug/l	2.0	04/12/06 08:51	MSF	75-01-4		
Toluene-d8 (S)	96	%		04/12/06 08:51	MSF	2037-26-5		
4-Bromofluorobenzene (S)	109	%		04/12/06 08:51	MSF	460-00-4		
Dibromofluoromethane (S)	92	%		04/12/06 08:51	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	85	%		04/12/06 08:51	MSF	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845447 | Project Sample Number: 92116926-011 | Date Collected: 04/04/06 15:50
Client Sample ID: MW-19 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	1.4	ug/l	1.0	04/11/06 00:20	PPM	540-59-0		
cis-1,2-Dichloroethene	1.4	ug/l	1.0	04/11/06 00:20	PPM	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 00:20	PPM	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/11/06 00:20	PPM	127-18-4		
Trichloroethene	36.	ug/l	1.0	04/11/06 00:20	PPM	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 00:20	PPM	75-01-4		
Toluene-d8 (S)	98	%		04/11/06 00:20	PPM	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/11/06 00:20	PPM	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 00:20	PPM	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		04/11/06 00:20	PPM	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845454 Project Sample Number: 92116926-012 Date Collected: 04/04/06 16:15
Client Sample ID: MW-22 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 00:43	PPM	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 00:43	PPM	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 00:43	PPM	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 00:43	PPM	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 00:43	PPM	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 00:43	PPM	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 00:43	PPM	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 00:43	PPM	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		04/11/06 00:43	PPM	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845462 | Project Sample Number: 92116926-013 | Date Collected: 04/05/06 08:55
Client Sample ID: MW-10 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	34.	ug/l	1.0	04/10/06 19:58	MCK	540-59-0		
cis-1,2-Dichloroethene	31.	ug/l	1.0	04/10/06 19:58	MCK	156-59-2		
trans-1,2-Dichloroethene	3.2	ug/l	1.0	04/10/06 19:58	MCK	156-60-5		
Trichloroethene	1.9	ug/l	1.0	04/10/06 19:58	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 19:58	MCK	75-01-4		
Toluene-d8 (S)	96	%		04/10/06 19:58	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/10/06 19:58	MCK	460-00-4		
Dibromofluoromethane (S)	96	%		04/10/06 19:58	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		04/10/06 19:58	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845470 | Project Sample Number: 92116926-014 | Date Collected: 04/05/06 09:05
Client Sample ID: MW-9 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	100	ug/l	1.0	04/10/06 20:23	MCK	540-59-0		
cis-1,2-Dichloroethene	93.	ug/l	1.0	04/10/06 20:23	MCK	156-59-2		
trans-1,2-Dichloroethene	7.3	ug/l	1.0	04/10/06 20:23	MCK	156-60-5		
Trichloroethene	900	ug/l	20.	04/10/06 20:23	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 20:23	MCK	75-01-4		
Toluene-d8 (S)	99	%		04/10/06 20:23	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		04/10/06 20:23	MCK	460-00-4		
Dibromofluoromethane (S)	95	%		04/10/06 20:23	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		04/10/06 20:23	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845488 Project Sample Number: 92116926-015 Date Collected: 04/05/06 09:25
Client Sample ID: MW-8 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/12/06 05:39	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 05:39	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 05:39	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/12/06 05:39	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/12/06 05:39	MSF	75-01-4		
Toluene-d8 (S)	96	%		04/12/06 05:39	MSF	2037-26-5		
4-Bromofluorobenzene (S)	107	%		04/12/06 05:39	MSF	460-00-4		
Dibromofluoromethane (S)	92	%		04/12/06 05:39	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	84	%		04/12/06 05:39	MSF	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845496 | Project Sample Number: 92116926-016 | Date Collected: 04/05/06 09:40
Client Sample ID: MW-7 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/10/06 21:11	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 21:11	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/10/06 21:11	MCK	156-60-5		
Trichloroethene	2.3	ug/l	1.0	04/10/06 21:11	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/10/06 21:11	MCK	75-01-4		
Toluene-d8 (S)	98	%		04/10/06 21:11	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		04/10/06 21:11	MCK	460-00-4		
Dibromofluoromethane (S)	94	%		04/10/06 21:11	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		04/10/06 21:11	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845504 | Project Sample Number: 92116926-017 | Date Collected: 04/05/06 10:00
Client Sample ID: MW-2 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 04:14	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 04:14	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 04:14	MCK	156-60-5		
Trichloroethene	9.5	ug/l	1.0	04/11/06 04:14	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 04:14	MCK	75-01-4		
Toluene-d8 (S)	100	%		04/11/06 04:14	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		04/11/06 04:14	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 04:14	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		04/11/06 04:14	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845512 Project Sample Number: 92116926-018 Date Collected: 04/05/06 10:25
Client Sample ID: MW-6 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 04:38	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 04:38	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 04:38	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 04:38	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 04:38	MCK	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 04:38	MCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/11/06 04:38	MCK	460-00-4		
Dibromofluoromethane (S)	108	%		04/11/06 04:38	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		04/11/06 04:38	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845520 Project Sample Number: 92116926-019 Date Collected: 04/05/06 10:50
Client Sample ID: MW-1 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 05:01	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 05:01	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 05:01	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 05:01	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 05:01	MCK	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 05:01	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 05:01	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 05:01	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		04/11/06 05:01	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845538 Project Sample Number: 92116926-020 Date Collected: 04/05/06 11:20
Client Sample ID: MW-11 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 05:24	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 05:24	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 05:24	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 05:24	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 05:24	MCK	75-01-4		
Toluene-d8 (S)	102	%		04/11/06 05:24	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 05:24	MCK	460-00-4		
Dibromofluoromethane (S)	108	%		04/11/06 05:24	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		04/11/06 05:24	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845546 Project Sample Number: 92116926-021 Date Collected: 04/04/06 11:00
Client Sample ID: MW-16A Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 01:07	PPM	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 01:07	PPM	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 01:07	PPM	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 01:07	PPM	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 01:07	PPM	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 01:07	PPM	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/11/06 01:07	PPM	460-00-4		
Dibromofluoromethane (S)	112	%		04/11/06 01:07	PPM	1868-53-7		
1,2-Dichloroethane-d4 (S)	113	%		04/11/06 01:07	PPM	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845553 Project Sample Number: 92116926-022 Date Collected: 04/04/06 11:15
Client Sample ID: MW-16 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 05:48	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 05:48	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 05:48	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 05:48	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 05:48	MCK	75-01-4		
Toluene-d8 (S)	100	%		04/11/06 05:48	MCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/11/06 05:48	MCK	460-00-4		
Dibromofluoromethane (S)	110	%		04/11/06 05:48	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		04/11/06 05:48	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845561 Project Sample Number: 92116926-023 Date Collected: 04/04/06 12:30
Client Sample ID: MW-15A Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 06:11	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 06:11	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 06:11	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 06:11	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 06:11	MCK	75-01-4		
Toluene-d8 (S)	100	%		04/11/06 06:11	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		04/11/06 06:11	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 06:11	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		04/11/06 06:11	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845579 | Project Sample Number: 92116926-024 | Date Collected: 04/04/06 12:00
Client Sample ID: MW-15 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 06:35	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 06:35	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 06:35	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 06:35	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 06:35	MCK	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 06:35	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 06:35	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 06:35	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		04/11/06 06:35	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845587 Project Sample Number: 92116926-025 Date Collected: 04/04/06 13:30
Client Sample ID: MW-17 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 11:40	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 11:40	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 11:40	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 11:40	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 11:40	MCK	75-01-4		
Toluene-d8 (S)	100	%		04/11/06 11:40	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 11:40	MCK	460-00-4		
Dibromofluoromethane (S)	110	%		04/11/06 11:40	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		04/11/06 11:40	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845595 Project Sample Number: 92116926-026 Date Collected: 04/04/06 14:00
Client Sample ID: MW-12 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 07:22	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 07:22	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 07:22	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 07:22	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 07:22	MCK	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 07:22	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 07:22	MCK	460-00-4		
Dibromofluoromethane (S)	112	%		04/11/06 07:22	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		04/11/06 07:22	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845603 | Project Sample Number: 92116926-027 | Date Collected: 04/04/06 14:20
Client Sample ID: MW-13 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 07:45	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 07:45	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 07:45	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	04/11/06 07:45	MCK	79-01-6		
Vinyl chloride	6.2	ug/l	1.0	04/11/06 07:45	MCK	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 07:45	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 07:45	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 07:45	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		04/11/06 07:45	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845611 Project Sample Number: 92116926-028 Date Collected: 04/04/06 14:35
Client Sample ID: MW-20 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	4.5	ug/l	1.0	04/11/06 08:08	MCK	540-59-0		
cis-1,2-Dichloroethene	4.5	ug/l	1.0	04/11/06 08:08	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 08:08	MCK	156-60-5		
Trichloroethene	6.1	ug/l	1.0	04/11/06 08:08	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 08:08	MCK	75-01-4		
Toluene-d8 (S)	100	%		04/11/06 08:08	MCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/11/06 08:08	MCK	460-00-4		
Dibromofluoromethane (S)	111	%		04/11/06 08:08	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	113	%		04/11/06 08:08	MCK	17060-07-0		

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Fax: 828.252.4618

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845629 | Project Sample Number: 92116926-029 | Date Collected: 04/04/06 15:00
Client Sample ID: MW-28 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/11/06 08:32	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 08:32	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 08:32	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/11/06 08:32	MCK	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/11/06 08:32	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 08:32	MCK	75-01-4		
Toluene-d8 (S)	101	%		04/11/06 08:32	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		04/11/06 08:32	MCK	460-00-4		
Dibromofluoromethane (S)	108	%		04/11/06 08:32	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		04/11/06 08:32	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845637 | Project Sample Number: 92116926-030 | Date Collected: 04/04/06 15:20
Client Sample ID: MW-28A | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	2.8	ug/l	1.0	04/11/06 08:55	MCK	540-59-0		
cis-1,2-Dichloroethene	2.8	ug/l	1.0	04/11/06 08:55	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 08:55	MCK	156-60-5		
Tetrachloroethene	20.	ug/l	1.0	04/11/06 08:55	MCK	127-18-4		
Trichloroethene	11.	ug/l	1.0	04/11/06 08:55	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 08:55	MCK	75-01-4		
Toluene-d8 (S)	99	%		04/11/06 08:55	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 08:55	MCK	460-00-4		
Dibromofluoromethane (S)	110	%		04/11/06 08:55	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		04/11/06 08:55	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845645 Project Sample Number: 92116926-031 Date Collected: 04/06/06 10:30
Client Sample ID: MW-5 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	300	ug/l	1.0	04/12/06 10:26	PPM	540-59-0		
cis-1,2-Dichloroethene	300	ug/l	25.	04/12/06 10:26	PPM	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	25.	04/12/06 10:26	PPM	156-60-5		
Trichloroethene	3700	ug/l	25.	04/12/06 10:26	PPM	79-01-6		
Vinyl chloride	ND	ug/l	25.	04/12/06 10:26	PPM	75-01-4		
Toluene-d8 (S)	97	%		04/12/06 10:26	PPM	2037-26-5		
4-Bromofluorobenzene (S)	97	%		04/12/06 10:26	PPM	460-00-4		
Dibromofluoromethane (S)	115	%		04/12/06 10:26	PPM	1868-53-7		
1,2-Dichloroethane-d4 (S)	113	%		04/12/06 10:26	PPM	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845652 | Project Sample Number: 92116926-032 | Date Collected: 04/06/06 10:20
Client Sample ID: RBLK-06201 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/12/06 11:13	PPM	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 11:13	PPM	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 11:13	PPM	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/12/06 11:13	PPM	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/12/06 11:13	PPM	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/12/06 11:13	PPM	75-01-4		
Toluene-d8 (S)	101	%		04/12/06 11:13	PPM	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/12/06 11:13	PPM	460-00-4		
Dibromofluoromethane (S)	111	%		04/12/06 11:13	PPM	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		04/12/06 11:13	PPM	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845660 Project Sample Number: 92116926-033 Date Collected: 04/06/06 11:10
Client Sample ID: MW-5A Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	160	ug/l	1.0	04/11/06 09:42	MCK	540-59-0		
cis-1,2-Dichloroethene	160	ug/l	50.	04/11/06 09:42	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	50.	04/11/06 09:42	MCK	156-60-5		
Trichloroethene	7200	ug/l	50.	04/11/06 09:42	MCK	79-01-6		
Vinyl chloride	75.	ug/l	50.	04/11/06 09:42	MCK	75-01-4		
Toluene-d8 (S)	97	%		04/11/06 09:42	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 09:42	MCK	460-00-4		
Dibromofluoromethane (S)	110	%		04/11/06 09:42	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		04/11/06 09:42	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845678 Project Sample Number: 92116926-034 Date Collected: 04/06/06 13:40
Client Sample ID: MW-29 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	10.	ug/l	1.0	04/11/06 10:53	MCK	540-59-0		
cis-1,2-Dichloroethene	8.2	ug/l	2.0	04/11/06 10:53	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	2.0	04/11/06 10:53	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	2.0	04/11/06 10:53	MCK	127-18-4		
Trichloroethene	300	ug/l	2.0	04/11/06 10:53	MCK	79-01-6		
Vinyl chloride	ND	ug/l	2.0	04/11/06 10:53	MCK	75-01-4		
Toluene-d8 (S)	96	%		04/11/06 10:53	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 10:53	MCK	460-00-4		
Dibromofluoromethane (S)	113	%		04/11/06 10:53	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		04/11/06 10:53	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845686 | Project Sample Number: 92116926-035 | Date Collected: 04/06/06 14:10
Client Sample ID: RW-1 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	20.	ug/l	1.0	04/11/06 10:06	MCK	540-59-0		
cis-1,2-Dichloroethene	20.	ug/l	10.	04/11/06 10:06	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	10.	04/11/06 10:06	MCK	156-60-5		
Tetrachloroethene	14.	ug/l	10.	04/11/06 10:06	MCK	127-18-4		
Trichloroethene	750	ug/l	10.	04/11/06 10:06	MCK	79-01-6		
Vinyl chloride	19.	ug/l	10.	04/11/06 10:06	MCK	75-01-4		
Toluene-d8 (S)	96	%		04/11/06 10:06	MCK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		04/11/06 10:06	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 10:06	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		04/11/06 10:06	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845694 | Project Sample Number: 92116926-036 | Date Collected: 04/06/06 14:15
Client Sample ID: RW-4 | Matrix: Water | Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	5.2	ug/l	1.0	04/11/06 10:29	MCK	540-59-0		
cis-1,2-Dichloroethene	5.3	ug/l	2.5	04/11/06 10:29	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	2.5	04/11/06 10:29	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	2.5	04/11/06 10:29	MCK	127-18-4		
Trichloroethene	290	ug/l	2.5	04/11/06 10:29	MCK	79-01-6		
Vinyl chloride	ND	ug/l	2.5	04/11/06 10:29	MCK	75-01-4		
Toluene-d8 (S)	96	%		04/11/06 10:29	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 10:29	MCK	460-00-4		
Dibromofluoromethane (S)	110	%		04/11/06 10:29	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	110	%		04/11/06 10:29	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845702 Project Sample Number: 92116926-037 Date Collected: 04/06/06 00:00
Client Sample ID: DU-06201 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	2.9	ug/l	1.0	04/11/06 12:04	MCK	540-59-0		
cis-1,2-Dichloroethene	2.9	ug/l	1.0	04/11/06 12:04	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/11/06 12:04	MCK	156-60-5		
Tetrachloroethene	20.	ug/l	1.0	04/11/06 12:04	MCK	127-18-4		
Trichloroethene	10.	ug/l	1.0	04/11/06 12:04	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/11/06 12:04	MCK	75-01-4		
Toluene-d8 (S)	99	%		04/11/06 12:04	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		04/11/06 12:04	MCK	460-00-4		
Dibromofluoromethane (S)	109	%		04/11/06 12:04	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		04/11/06 12:04	MCK	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845710 Project Sample Number: 92116926-038 Date Collected: 04/06/06 00:00
Client Sample ID: DU-06202 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	43.	ug/l	1.0	04/12/06 10:50	PPM	540-59-0		
cis-1,2-Dichloroethene	43.	ug/l	1.0	04/12/06 10:50	PPM	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 10:50	PPM	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/12/06 10:50	PPM	127-18-4		
Trichloroethene	5.3	ug/l	1.0	04/12/06 10:50	PPM	79-01-6		
Vinyl chloride	18.	ug/l	1.0	04/12/06 10:50	PPM	75-01-4		
Toluene-d8 (S)	99	%		04/12/06 10:50	PPM	2037-26-5		
4-Bromofluorobenzene (S)	98	%		04/12/06 10:50	PPM	460-00-4		
Dibromofluoromethane (S)	110	%		04/12/06 10:50	PPM	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		04/12/06 10:50	PPM	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

Lab Sample No: 926845728 Project Sample Number: 92116926-039 Date Collected: 04/06/06 00:00
Client Sample ID: TBLK-06201 Matrix: Water Date Received: 04/08/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	04/12/06 02:29	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 02:29	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	04/12/06 02:29	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	04/12/06 02:29	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	04/12/06 02:29	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	04/12/06 02:29	MSF	75-01-4		
Toluene-d8 (S)	96	%		04/12/06 02:29	MSF	2037-26-5		
4-Bromofluorobenzene (S)	109	%		04/12/06 02:29	MSF	460-00-4		
Dibromofluoromethane (S)	92	%		04/12/06 02:29	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	84	%		04/12/06 02:29	MSF	17060-07-0		

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

QC Batch: 154222 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926845447 926845454 926845546

METHOD BLANK: 926847484
Associated Lab Samples: 926845447 926845454 926845546

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Toluene-d8 (S)	%	101		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	103		
1,2-Dichloroethane-d4 (S)	%	101		

LABORATORY CONTROL SAMPLE: 926847492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	96.19	96		
cis-1,2-Dichloroethene	ug/l	50.00	48.89	98	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	47.30	95	67-134	
Tetrachloroethene	ug/l	50.00	47.72	95	50-150	
Trichloroethene	ug/l	50.00	48.43	97	63-134	
Vinyl chloride	ug/l	50.00	40.63	81	50-130	
Toluene-d8 (S)				99	70-120	
4-Bromofluorobenzene (S)				99	76-112	
Dibromofluoromethane (S)				98	86-119	
1,2-Dichloroethane-d4 (S)				88	79-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926847500 926847518

Parameter	Units	926839457 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	55.72	52.52	111	105	55-138	6	30	
Toluene-d8 (S)						97	98	70-120			
4-Bromofluorobenzene (S)						94	94	76-112			
Dibromofluoromethane (S)						97	99	86-119			
1,2-Dichloroethane-d4 (S)						98	98	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

QC Batch: 154233 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926845348, 926845355, 926845363, 926845371, 926845389, 926845397, 926845405, 926845413, 926845421, 926845462, 926845470, 926845488, 926845496

METHOD BLANK: 926848136
Associated Lab Samples: 926845348, 926845355, 926845363, 926845371, 926845389, 926845397, 926845405, 926845413, 926845421, 926845462, 926845470, 926845488, 926845496

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	94		
1,2-Dichloroethane-d4 (S)	%	91		

LABORATORY CONTROL SAMPLE: 926848144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	93.56	94		
cis-1,2-Dichloroethene	ug/l	50.00	46.35	93	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	47.21	94	67-134	
Tetrachloroethene	ug/l	50.00	46.50	93	50-150	
Trichloroethene	ug/l	50.00	48.20	96	63-134	
Vinyl chloride	ug/l	50.00	42.73	86	50-130	
Toluene-d8 (S)				101	70-120	
4-Bromofluorobenzene (S)				98	76-112	
Dibromofluoromethane (S)				94	86-119	
1,2-Dichloroethane-d4 (S)				89	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926848219 926848227

Parameter	Units	926845348 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	46.64	48.53	93	97	55-138	4	30	
Toluene-d8 (S)						99	98	70-120			
4-Bromofluorobenzene (S)						97	98	76-112			
Dibromofluoromethane (S)						92	94	86-119			
1,2-Dichloroethane-d4 (S)						94	92	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

QC Batch: 154264 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260, low level

Associated Lab Samples: 926845504, 926845512, 926845520, 926845538, 926845553, 926845561, 926845579, 926845587, 926845595, 926845603, 926845611, 926845629, 926845637, 926845645, 926845652, 926845660, 926845678, 926845686, 926845694, 926845702, 926845710

METHOD BLANK: 926848821
Associated Lab Samples: 926845504, 926845512, 926845520, 926845538, 926845553, 926845561, 926845579, 926845587, 926845595, 926845603, 926845611, 926845629, 926845637, 926845645, 926845652, 926845660, 926845678, 926845686, 926845694, 926845702, 926845710

Parameter	Units	Blank Result	Reporting Limit	Footnotes
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	107		
1,2-Dichloroethane-d4 (S)	%	106		

LABORATORY CONTROL SAMPLE: 926848839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	97.13	97		
cis-1,2-Dichloroethene	ug/l	50.00	48.97	98	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	48.17	96	67-134	
Tetrachloroethene	ug/l	50.00	46.43	93	50-150	
Trichloroethene	ug/l	50.00	48.57	97	63-134	
Vinyl chloride	ug/l	50.00	40.70	81	50-130	
Toluene-d8 (S)				99	70-120	
4-Bromofluorobenzene (S)				101	76-112	
Dibromofluoromethane (S)				99	86-119	
1,2-Dichloroethane-d4 (S)				97	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926848854 926848862

Parameter	Units	926845512 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	49.81	48.79	100	98	55-138	2	30	
Toluene-d8 (S)						97	98	70-120			
4-Bromofluorobenzene (S)						94	97	76-112			
Dibromofluoromethane (S)						102	100	86-119			
1,2-Dichloroethane-d4 (S)						101	102	79-130			

SAMPLE DUPLICATE: 926848847

Parameter	Units	926845579 Result	DUP Result	RPD	Max RPD	Footnotes
cis-1,2-Dichloroethene	ug/l	ND	ND	NC	30	
trans-1,2-Dichloroethene	ug/l	ND	ND	NC	30	
Tetrachloroethene	ug/l	ND	ND	NC	30	
Trichloroethene	ug/l	ND	ND	NC	30	
Vinyl chloride	ug/l	ND	ND	NC	30	
Toluene-d8 (S)	%	101	102			
4-Bromofluorobenzene (S)	%	95	96			
Dibromofluoromethane (S)	%	109	111			
1,2-Dichloroethane-d4 (S)	%	110	112			

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

QC Batch: 154374 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 926845439 926845728

METHOD BLANK: 926852484
Associated Lab Samples: 926845439 926845728

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	97		
4-Bromofluorobenzene (S)	%	110		
Dibromofluoromethane (S)	%	91		
1,2-Dichloroethane-d4 (S)	%	86		

LABORATORY CONTROL SAMPLE: 926852492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	97.19	97		
cis-1,2-Dichloroethene	ug/l	50.00	47.24	94	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	49.95	100	67-134	
Tetrachloroethene	ug/l	50.00	54.15	108	50-150	
Trichloroethene	ug/l	50.00	56.16	112	63-134	
Vinyl chloride	ug/l	50.00	46.82	94	50-130	
Toluene-d8 (S)				97	70-120	
4-Bromofluorobenzene (S)				109	76-112	
Dibromofluoromethane (S)				100	86-119	
1,2-Dichloroethane-d4 (S)				91	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

SAMPLE DUPLICATE: 926852542

Parameter	Units	926843590 Result	DUP Result	RPD	Max RPD	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	ND	NC		
cis-1,2-Dichloroethene	ug/l	ND	ND	NC	30	
trans-1,2-Dichloroethene	ug/l	ND	ND	NC	30	
Tetrachloroethene	ug/l	ND	ND	NC	30	
Trichloroethene	ug/l	ND	ND	NC	30	
Vinyl chloride	ug/l	ND	ND	NC	30	
Toluene-d8 (S)	%	96	95			
4-Bromofluorobenzene (S)	%	111	109			
Dibromofluoromethane (S)	%	92	92			
1,2-Dichloroethane-d4 (S)	%	86	84			

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Lab Project Number: 92116926
Client Project ID: SKF Asheville/70144.39

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

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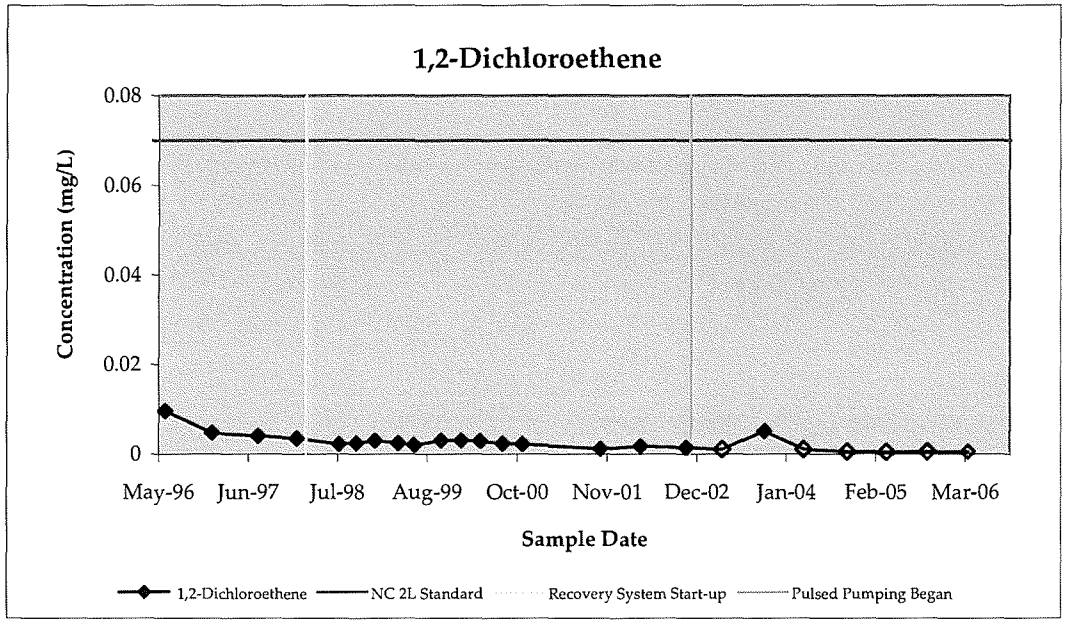
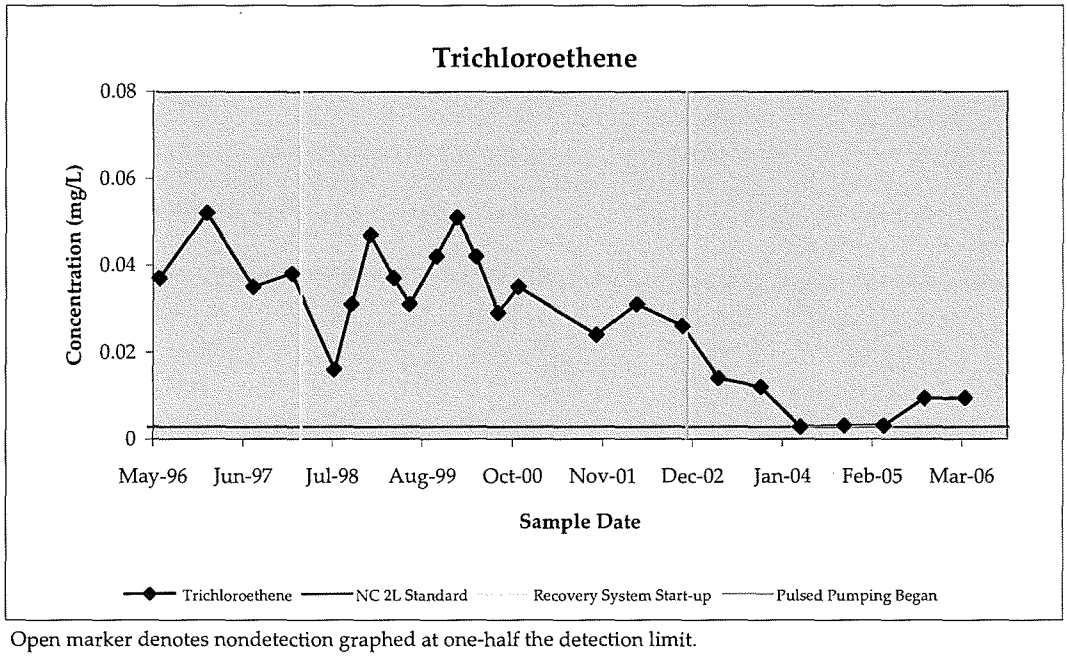
Appendix C
Time Versus Concentration Graphs

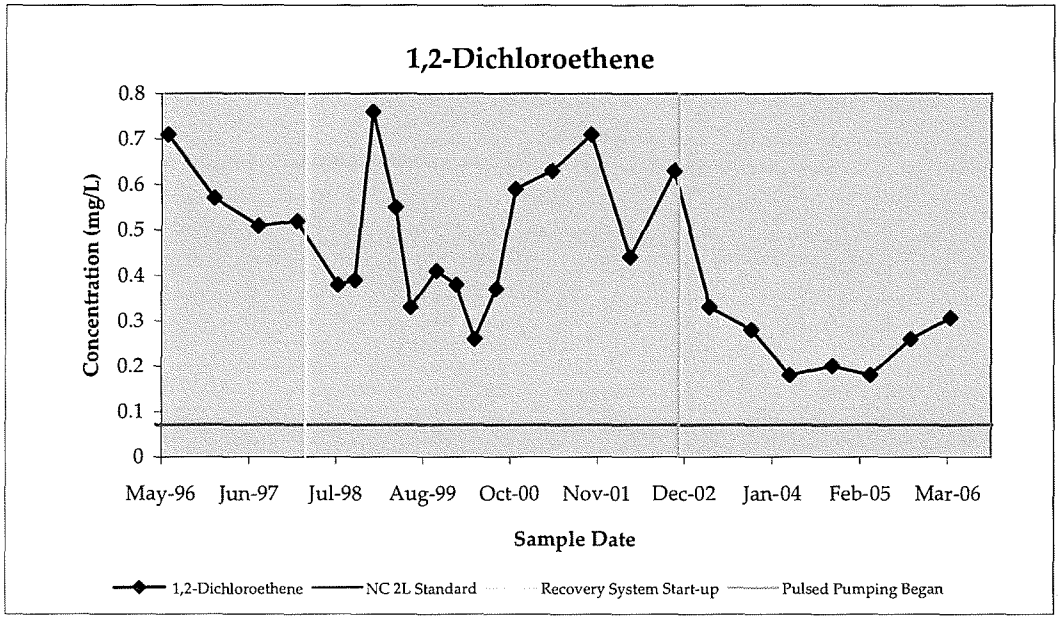
Time vs. Concentration Graphs
MW-02

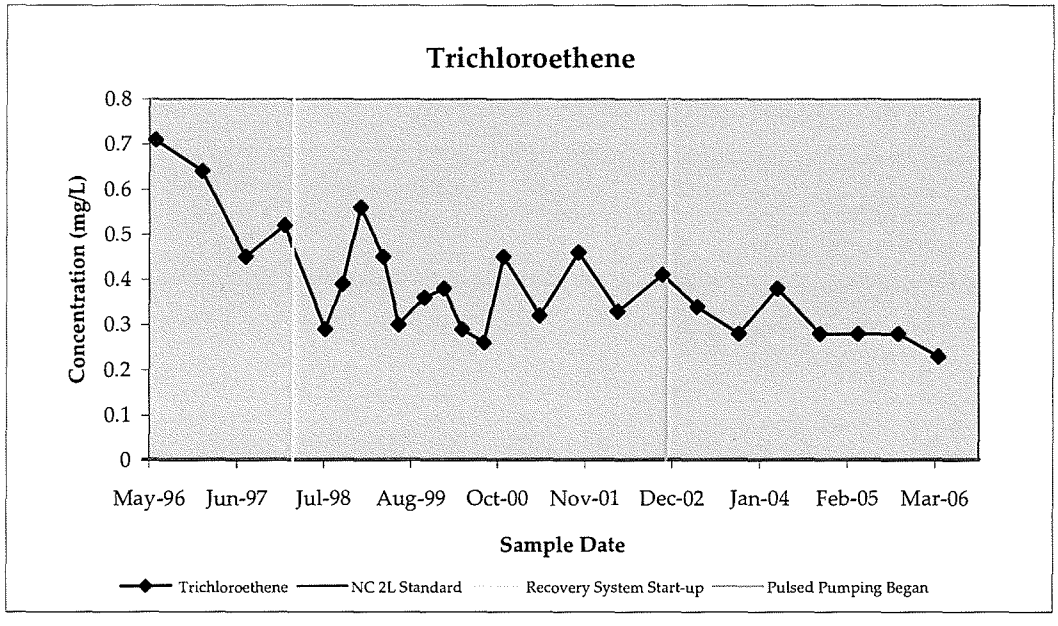




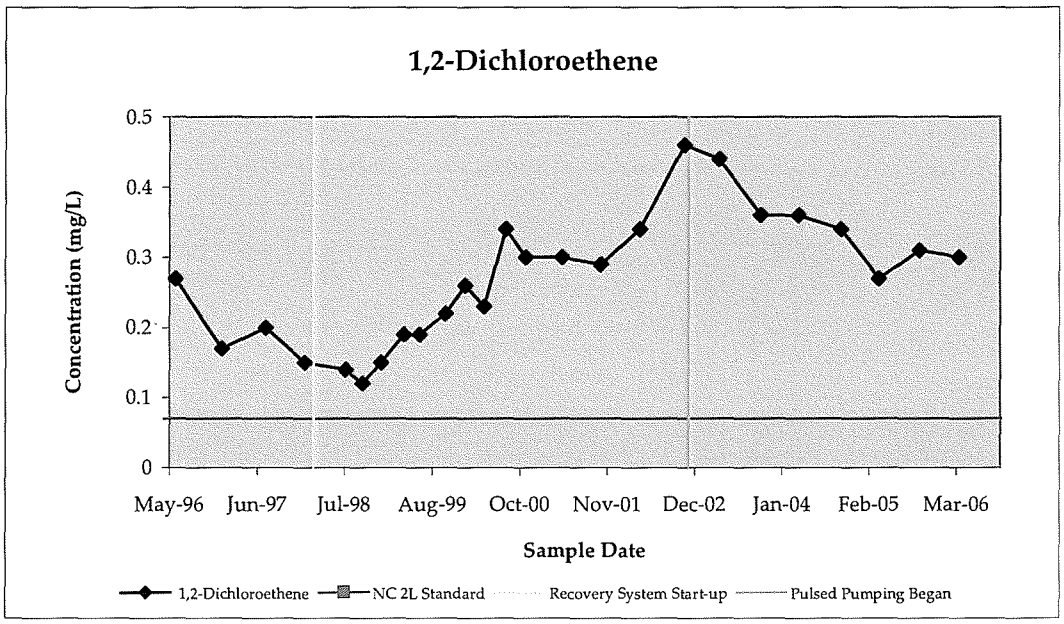
Open marker denotes nondetection graphed at one-half the detection limit.

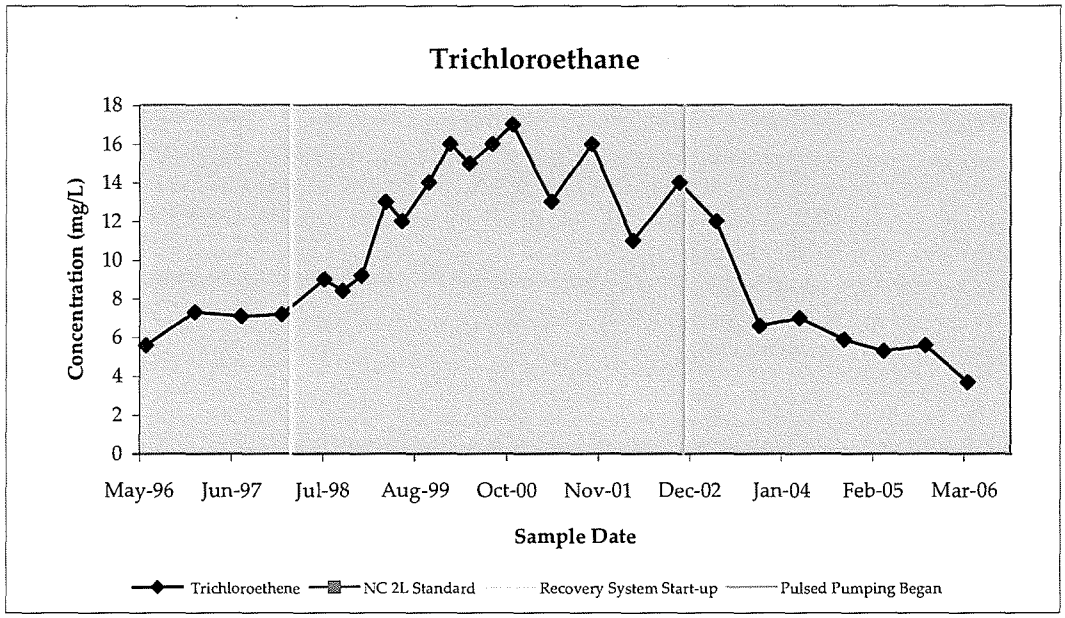
Time vs. Concentration Graphs
MW-04



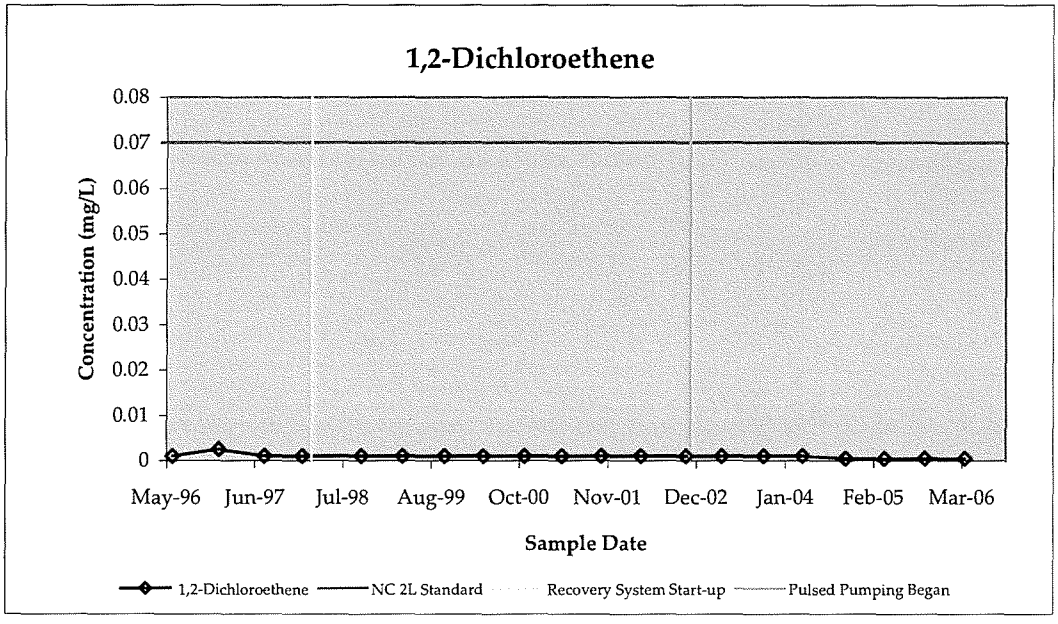


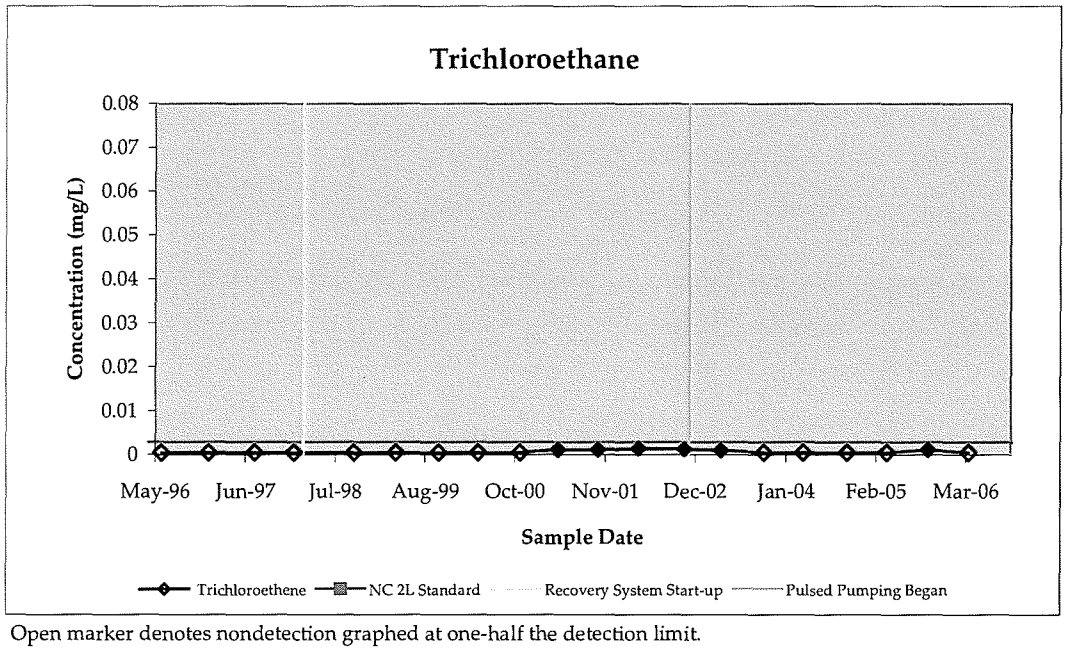
Time vs. Concentration Graphs
MW-05





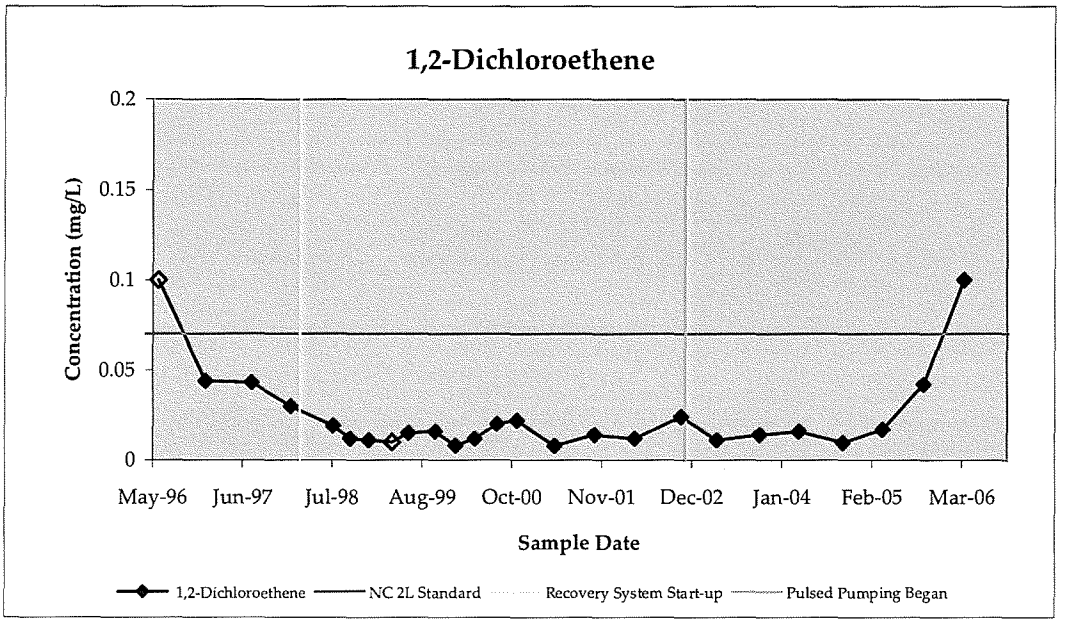
Time vs. Concentration Graphs
MW-08

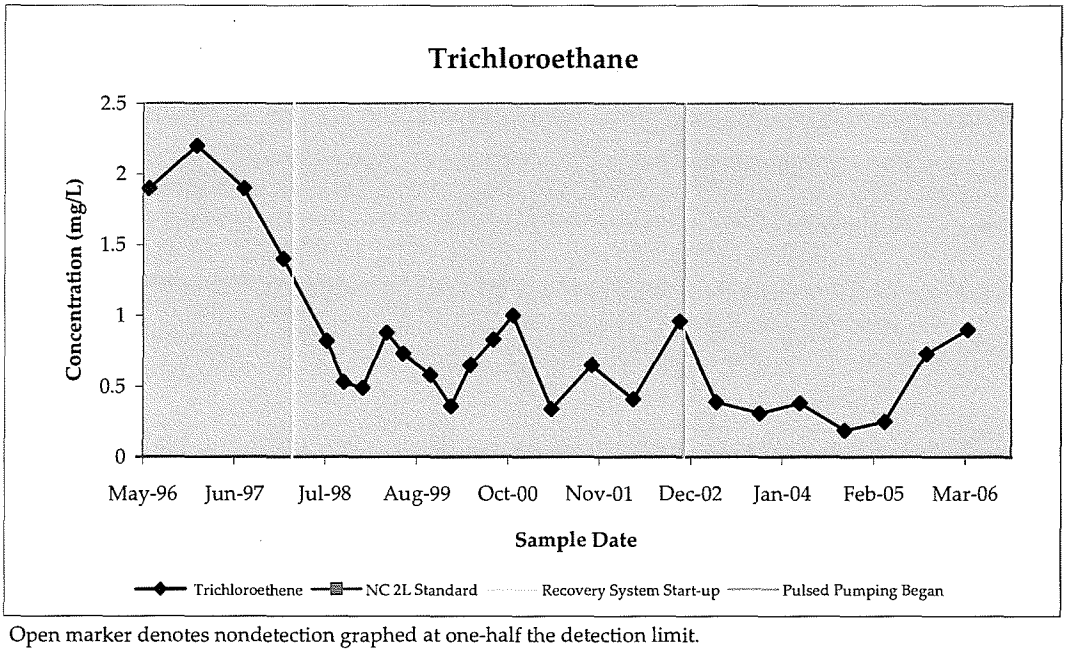




Open marker denotes nondetection graphed at one-half the detection limit.

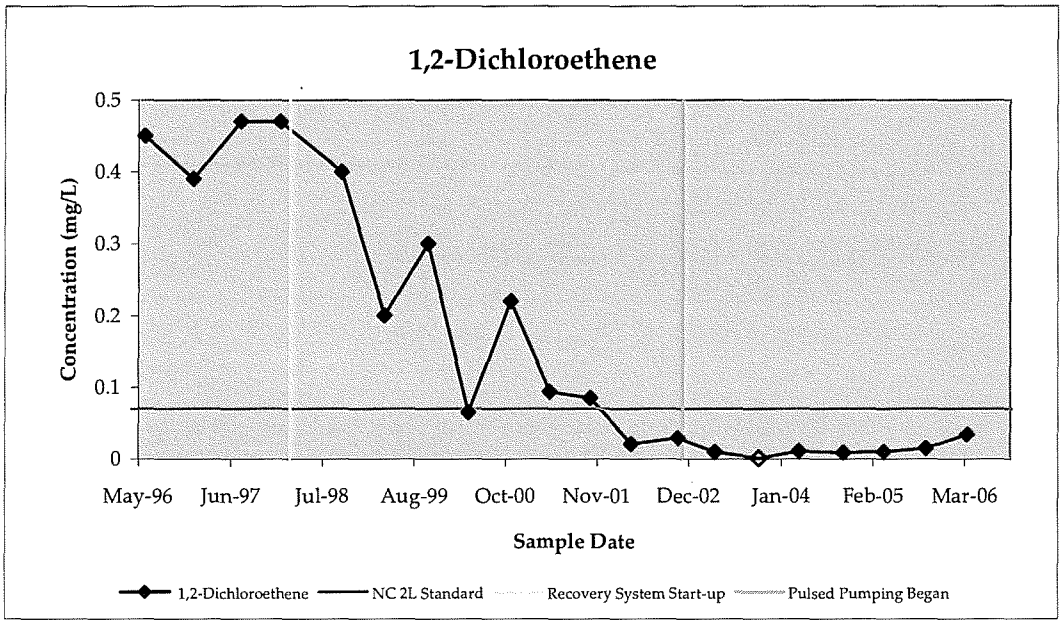
Time vs. Concentration Graphs
MW-09

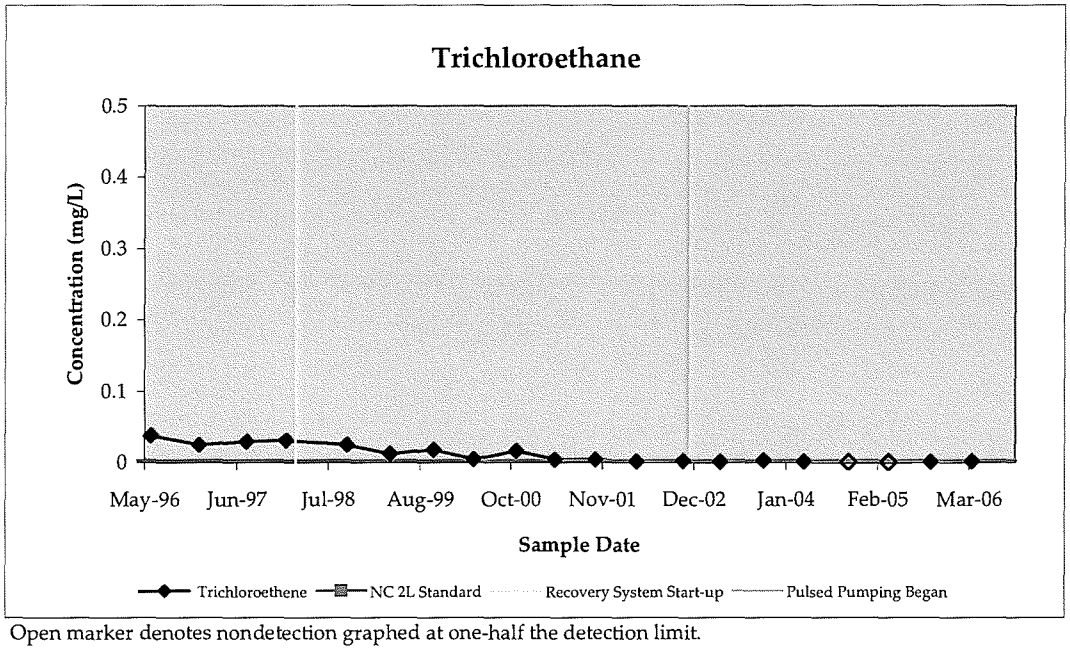




Open marker denotes nondetection graphed at one-half the detection limit.

Time vs. Concentration Graphs
MW-10





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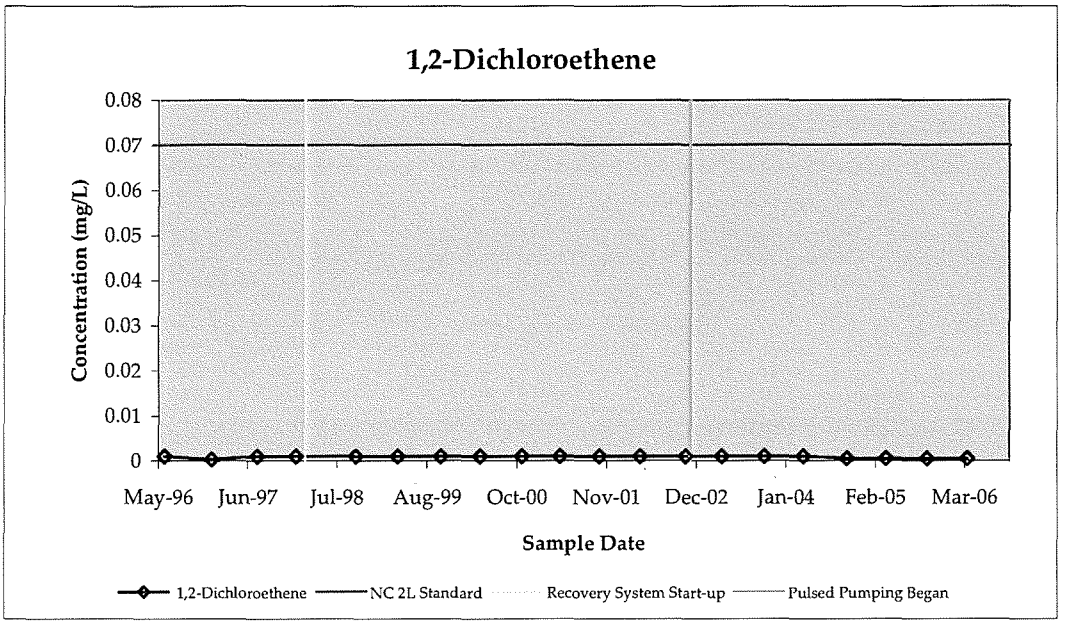
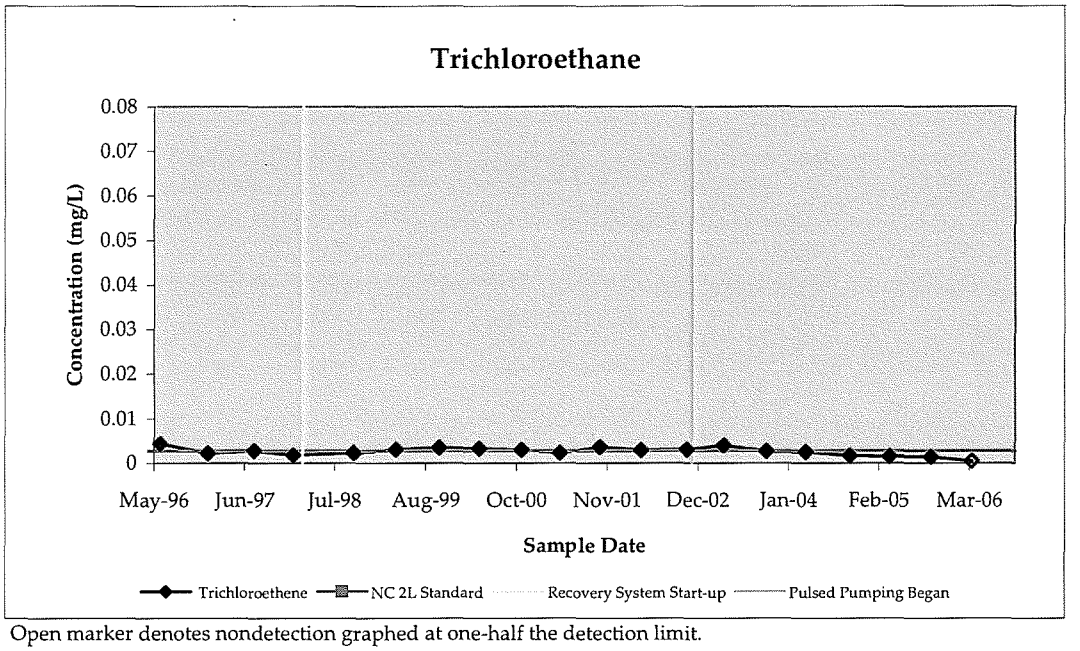
Time vs. Concentration Graphs
MW-11





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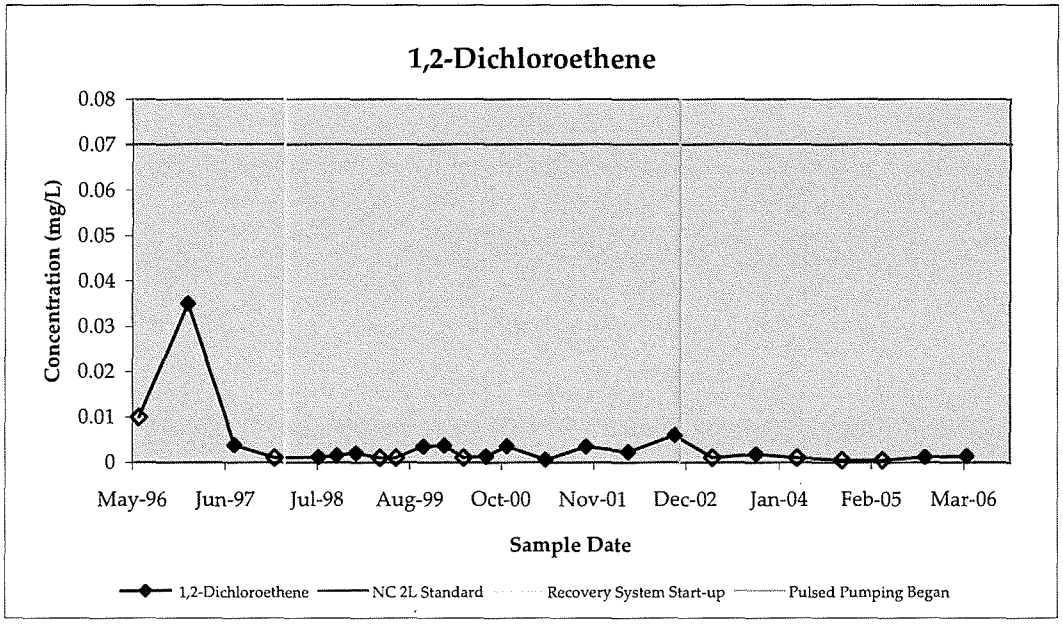
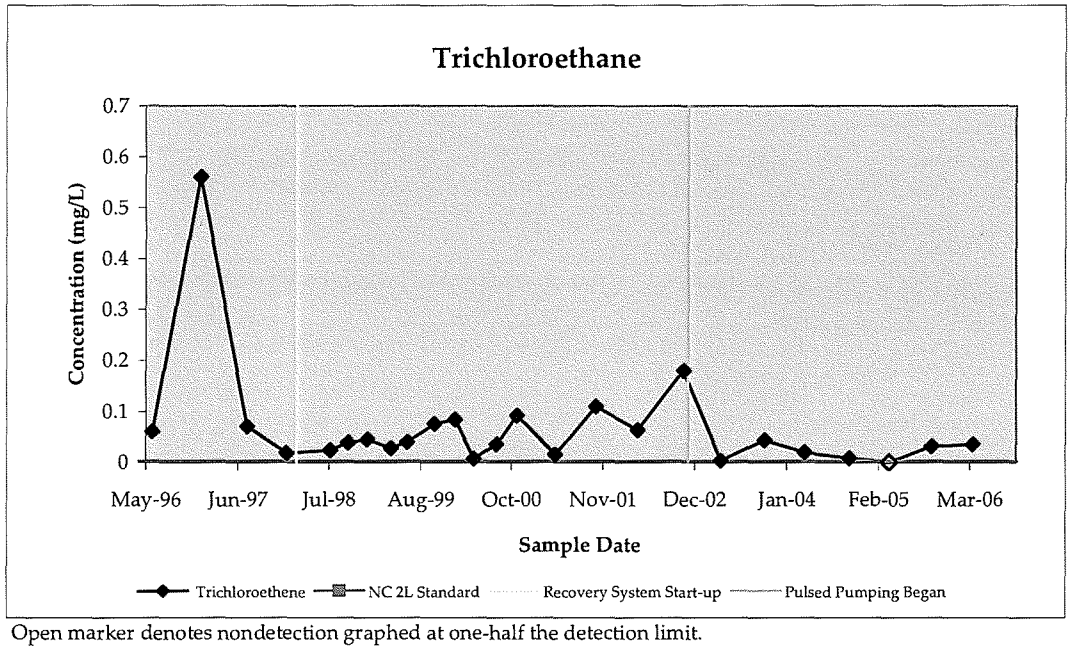
Time vs. Concentration Graphs
MW-19





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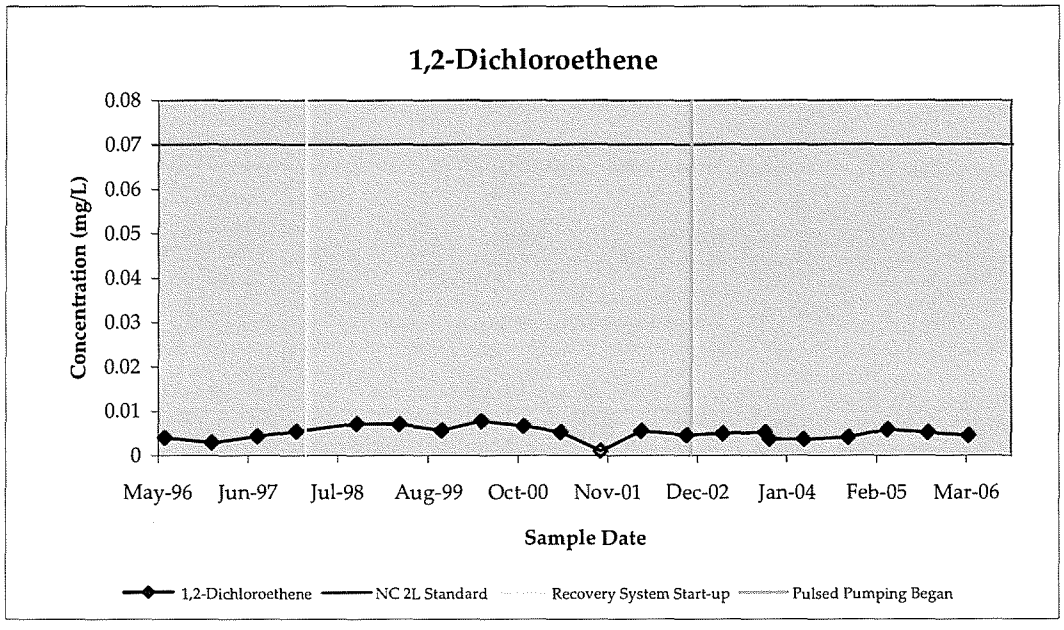
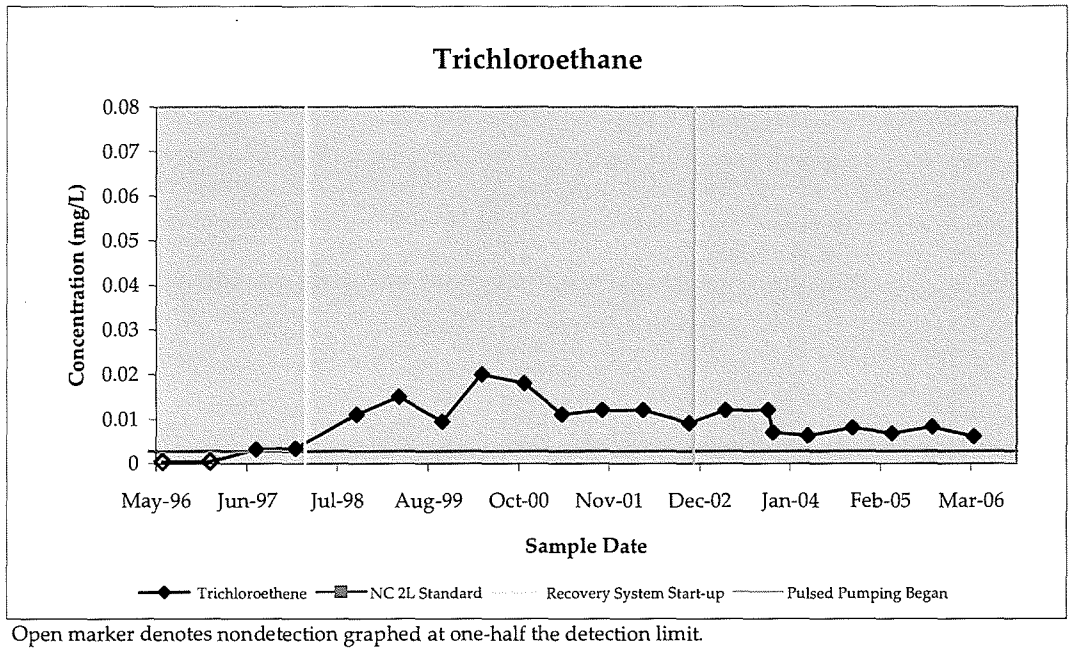
Time vs. Concentration Graphs
MW-20





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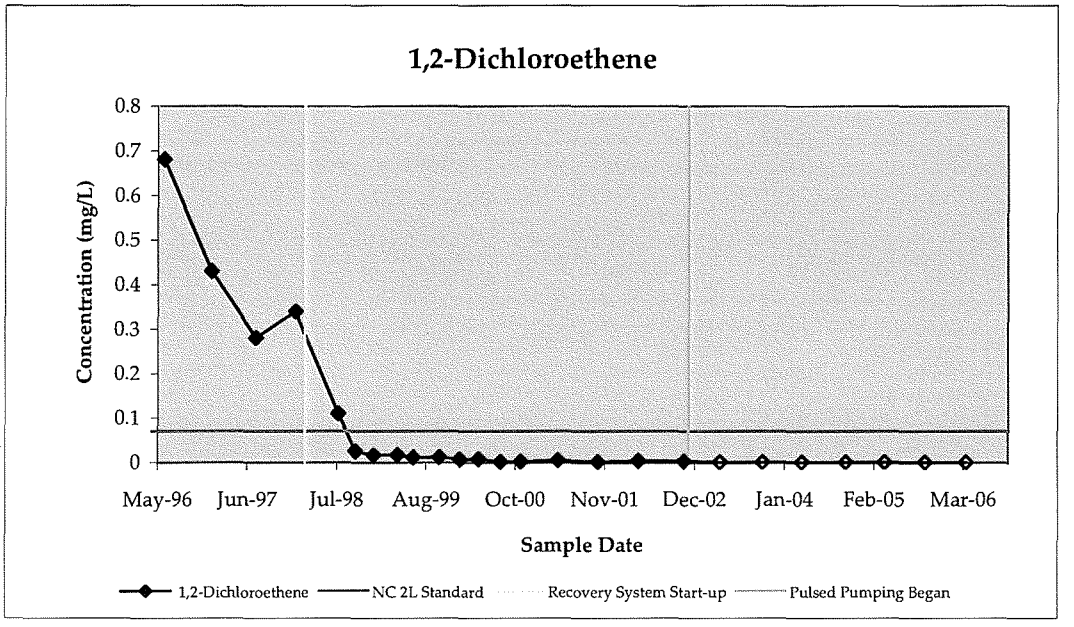
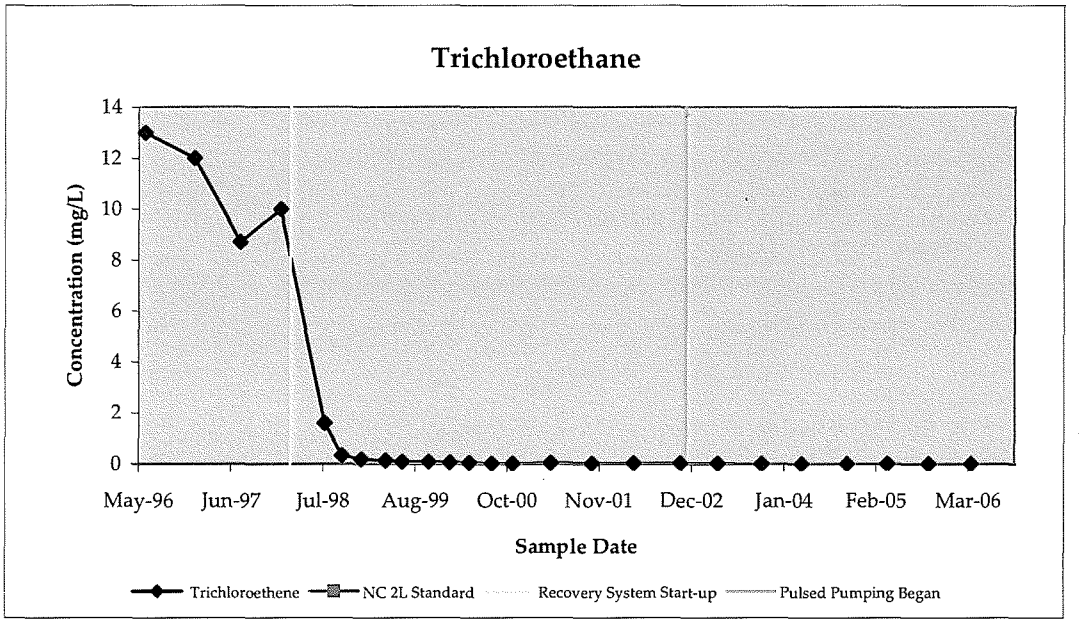
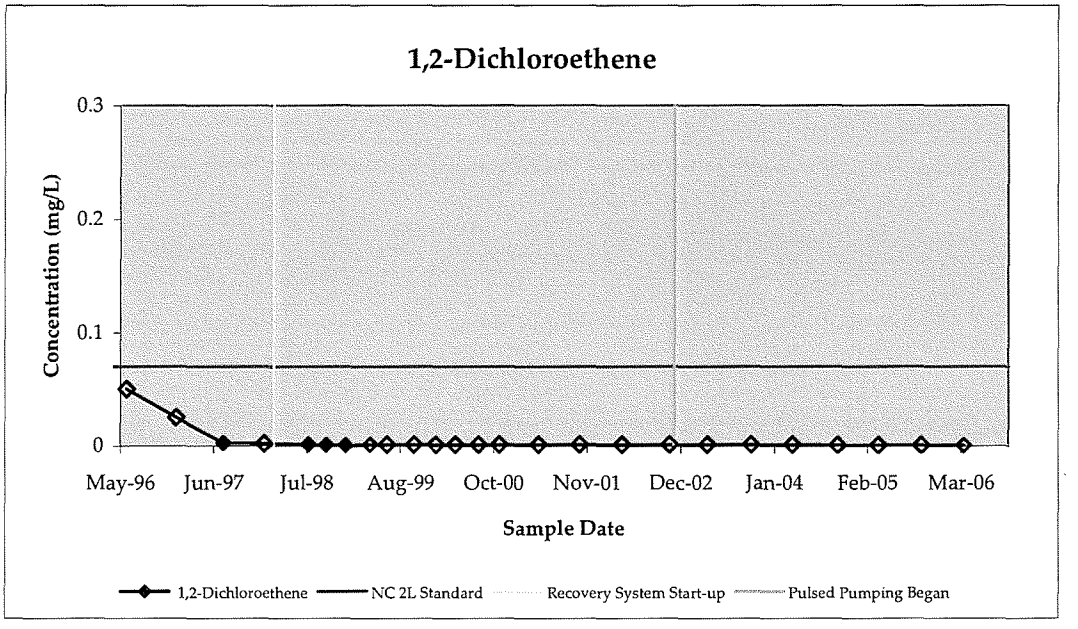
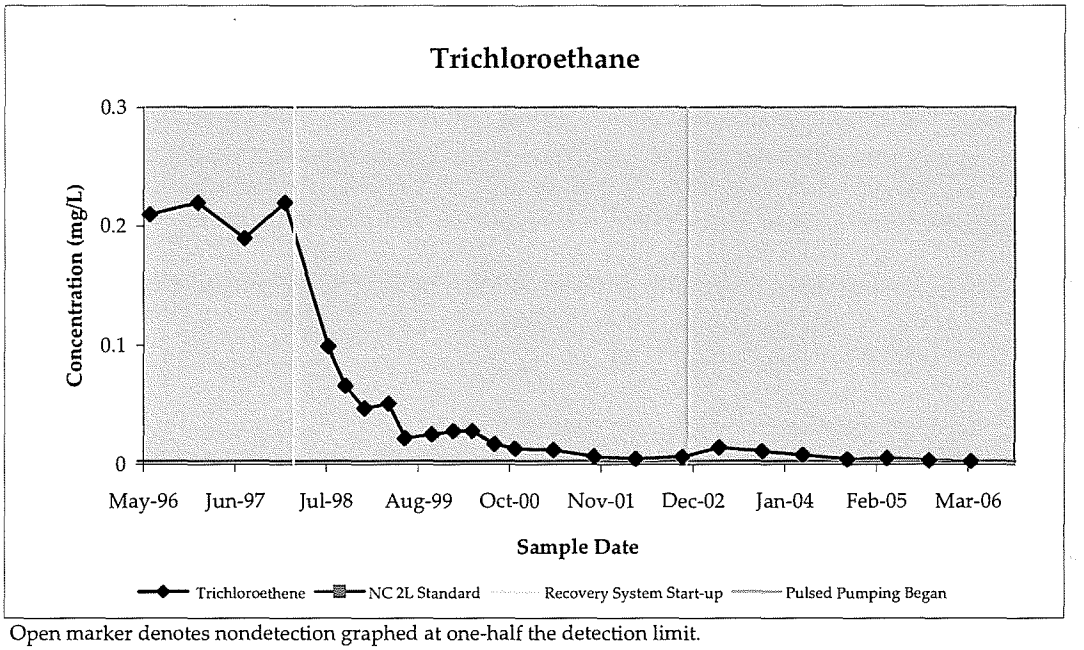
Time vs. Concentration Graphs
MW-23





Time vs. Concentration Graphs
MW-24





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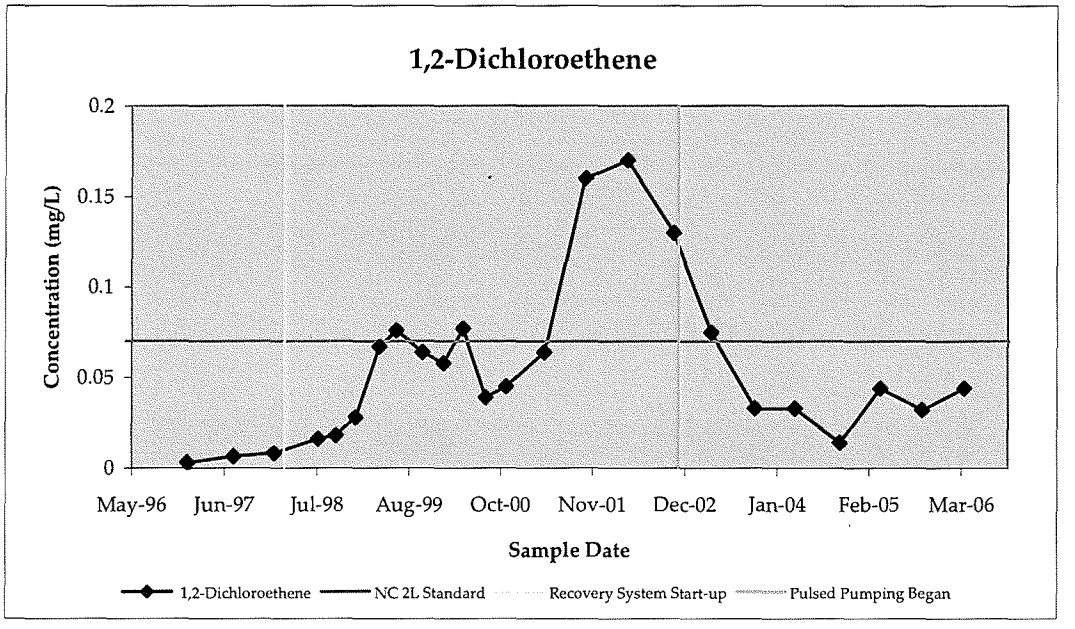
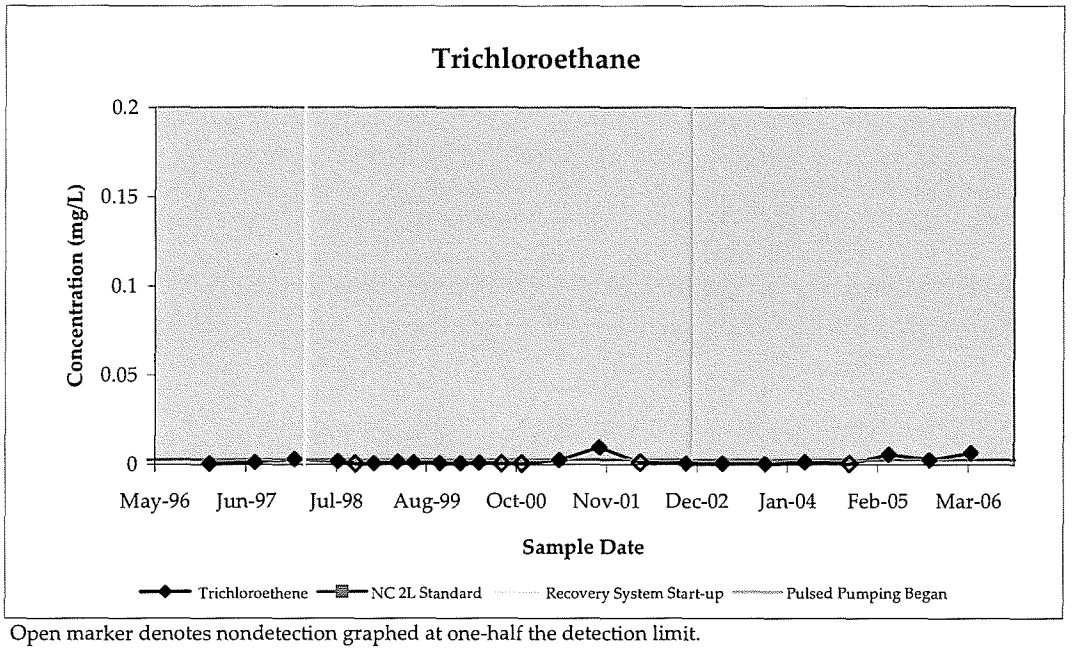
Time vs. Concentration Graphs
MW-26R





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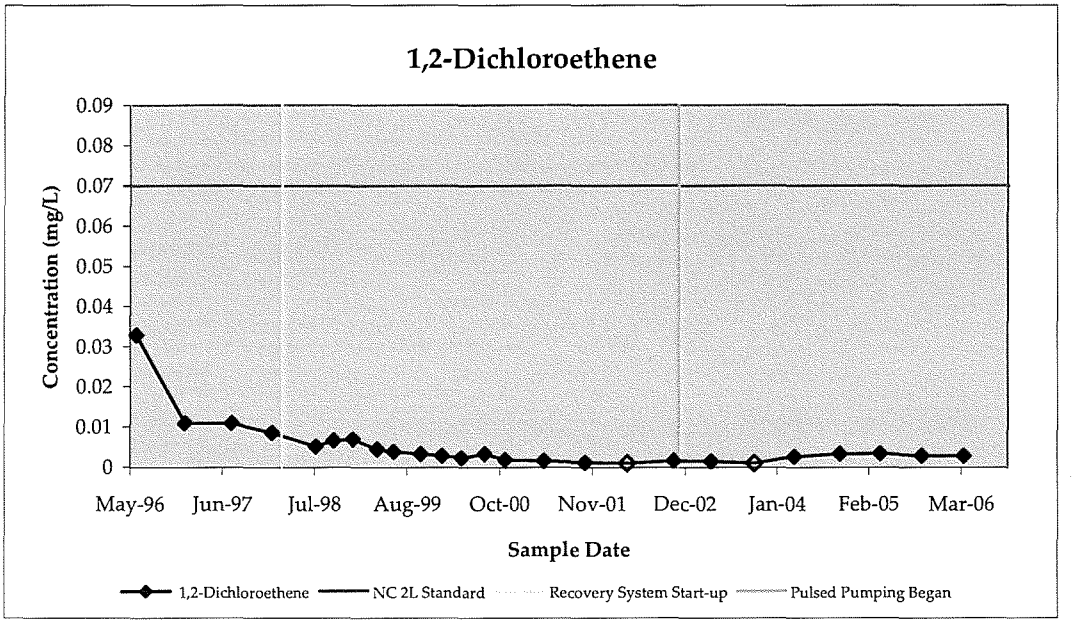
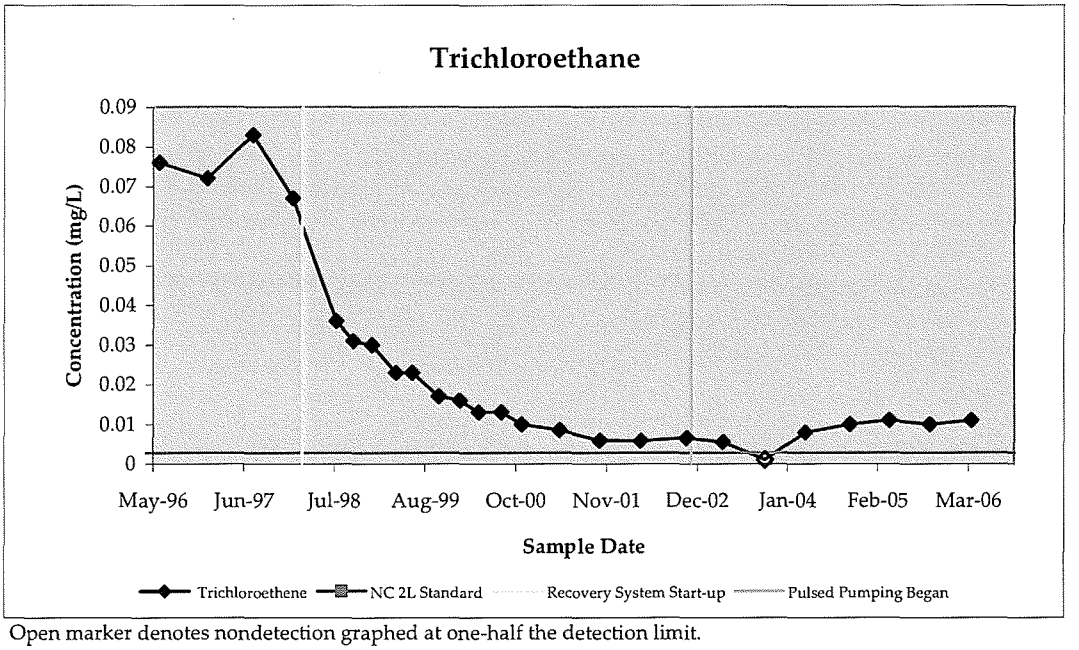
Time vs. Concentration Graphs
MW-28A





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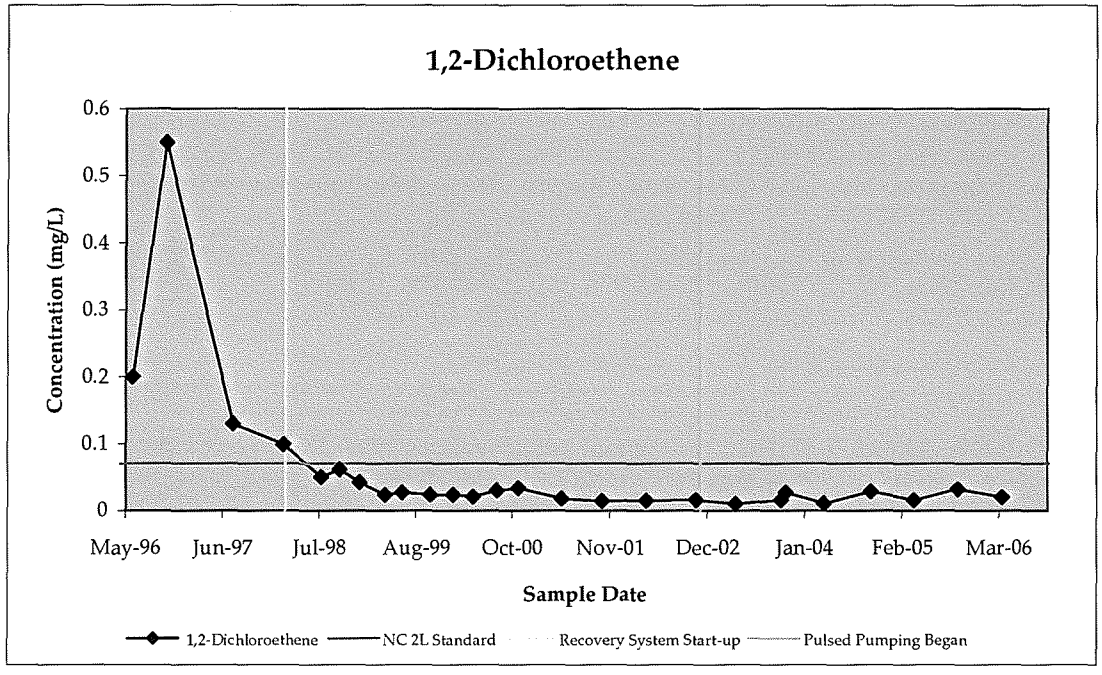
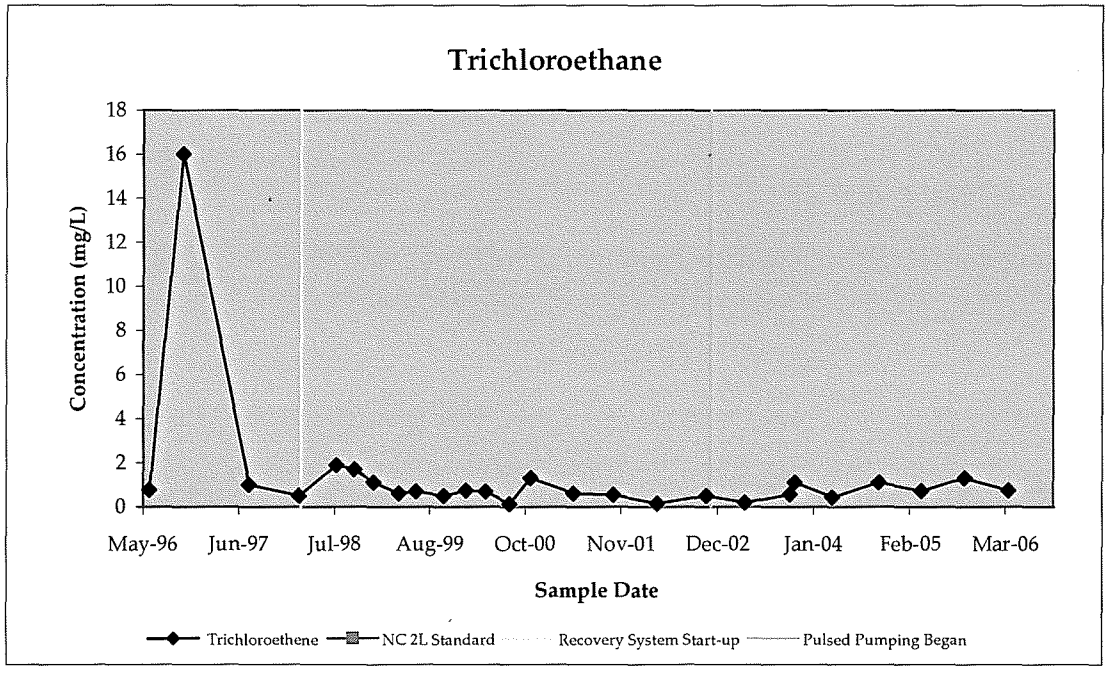
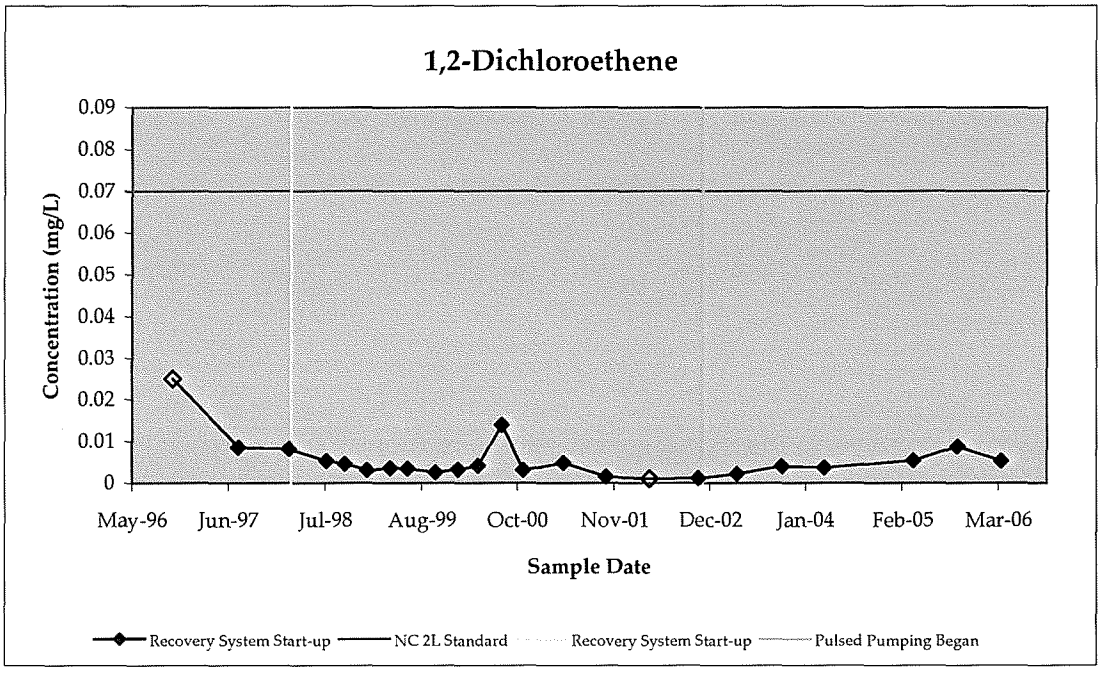
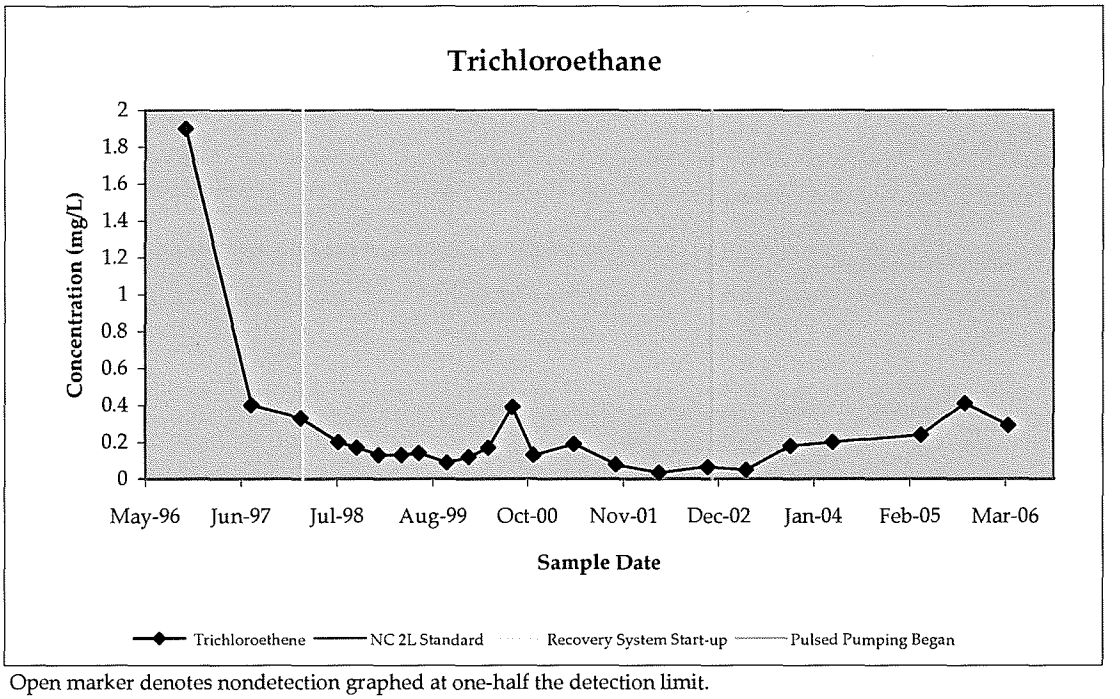
Time vs. Concentration Graphs
RW-1





Time vs. Concentration Graphs
RW-4





Open marker denotes nondetection graphed at one-half the detection limit.

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Groundwater Monitoring Report for the October 2006 Sampling Event Groundwater Incident No. 10032

Girmes Site, Formerly SKF USA Inc.

Buncombe County, North Carolina

December 2006

Prepared for
SKF USA Inc.

Michael B. Parker, P.E.
Vice President/Senior Client
Service Manager

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Certification

The hydrogeology work for the Girmes Site, formerly SKF USA Inc., in Buncombe County, North Carolina, was performed by an RMT, Inc. consulting hydrogeologist in support of RMT North Carolina, Inc.

Dan O. Madison, Jr., P.G.
Consulting Hydrogeologist
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Project Hydrogeologist
RMT, Inc.

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Executive Summary

As a part of the Corrective Action Plan (CAP), SKF USA Inc. (SKF) operates a groundwater recovery and treatment system at the former J.L. deBall Girmes of America (Girmes) site in Asheville, North Carolina for the purpose of removing volatile organic compound (VOC)-impacted groundwater. The system operated continuously from March 1998 until November 11, 2002. Since November 2002, the recovery system has operated on a pulsed pumping cycle. Each cycle consists of six weeks of system operation followed by six weeks of system shut down.

Groundwater and surface water samples are collected at the site on a semiannual basis. Groundwater elevations are measured in monitoring and recovery wells during each sampling event. The latest sampling event was conducted during the week of October 2, 2006. On the northeast side of the Girmes facility, trichloroethene (TCE) was detected in samples collected from six wells (MW-2, MW-4, MW-5, MW-5A, MW-9, and MW-20) at concentrations exceeding the North Carolina (NC) 2L standard. 1,2-Dichloroethene (1,2-DCE) was detected in samples collected from three wells (MW-4, MW-5, MW-5A, and MW-9) at concentrations exceeding the NC 2L standard. Vinyl chloride was detected in samples collected from wells MW-4 and MW-13 at concentrations exceeding the NC 2L standard. This is consistent with the sampling events conducted over the last several years.

On the southwest side of the Girmes facility, two wells (MW-14 and MW-22) were dry and could not be sampled. Additionally, two wells (MW-18 and MW-21) had insufficient volume of water to sample. Groundwater samples collected from four of the remaining monitoring wells (MW-19, MW-26R, MW-28A, and MW-29) and two recovery wells (RW-1 and RW-4) had TCE concentrations exceeding the NC 2L standard. 1,2-DCE was not detected in any of the wells on this side of the site at concentrations exceeding the NC 2L standard. Vinyl chloride was detected in samples collected from monitoring well MW-26R at a concentration exceeding the NC 2L standard. Tetrachloroethene (PCE) was detected in groundwater samples collected from two monitoring wells (MW-23 and MW-28A) at concentrations exceeding the NC 2L standard. This is consistent with the sampling events conducted over the last several years. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility.

None of the surface water samples had detections of TCE, 1,2-DCE, or vinyl chloride.

The estimated amount of groundwater that was recovered and treated during May 2006 through October 2006 is 3.5 million gallons. It is estimated that over 36 pounds of TCE were removed during that period. Pulse pumping of the groundwater recovery system has increased the amount of TCE removed on an annual basis while significantly reducing the volume of water treated. It is recommended that pulse pumping of the recovery system continue throughout the remainder of 2006 and 2007.

Section 1
Introduction

The Girmes site is a former textile plant located on Old Highway 74 East in Asheville, North Carolina. Girmes owned the site from 1973 until 2001 when it was purchased by LMC, LLC. The site was formerly occupied by SKF from approximately 1960 to 1973. The North Carolina Department of Environment and Natural Resources (NC DENR) issued SKF a Notice of Violation (NOV) on April 2, 1993 (Groundwater Incident Number 10032). In response to the NOV and associated correspondence, SKF conducted comprehensive site assessment (CSA) activities in 1993 and 1994. VOCs, in particular TCE, 1,2-DCE, and vinyl chloride, were found in groundwater at the site. The results of the CSA were submitted to NC DENR in November 1994. Following the CSA, a CAP to address the VOC-impacted groundwater was prepared and submitted to NC DENR in October 1996.

RMT North Carolina, Inc. (RMT) was retained by SKF to implement the CAP. A groundwater recovery system consisting of three groundwater recovery wells and an air stripper unit was installed in 1997 and early 1998. The system began operation on March 4, 1998.

The CAP specified that groundwater elevations were to be measured in all wells on a quarterly basis. Water samples were to be collected from all of the monitoring wells, 3 recovery wells, and 4 surface water stations, on a semiannual basis. Thirteen of these monitoring wells, along with the three recovery wells were also to be sampled quarterly. The CAP specified that the samples were to be analyzed for TCE, 1,2-DCE, and vinyl chloride.

On December 11, 2000, NC DENR approved reducing the monitoring frequency from quarterly to semiannually. Beginning in 2001, the monitoring wells, recovery wells, and surface water stations were sampled on a semiannual basis. Groundwater elevations were also measured on a semiannual basis. Water samples and elevations are now collected in April and October of each year.

In August 2002, RMT proposed to switch the operation of the groundwater recovery system from continuous pumping to a pulsed pumping schedule in an effort to increase contaminant recovery. In October 2002, RMT proposed further modifications to the pumping cycle. Under the pulsed pumping schedule, the groundwater recovery system would operate one cycle per quarter. Each cycle consists of 6 weeks of pumping followed by 6 weeks of no pumping. Ms. Kay Dechant of NC DENR approved the modified pulse-pumping plan on October 14, 2002, and the first pumping cycle was initiated on November 11, 2002.

Two additional monitoring wells, MW-5A and MW-29, were installed in January 2006. Monitoring well MW-5A was installed adjacent to water table well MW-5 to assess vertical groundwater quality. Well MW-5A was installed in bedrock and extends approximately 15 feet below the bottom of well MW-5. Monitoring well MW-29 was installed adjacent to well MW-14 in order to assess groundwater flow and quality in this area of the site. Well MW-14 has been dry since the start up of the system. The two new wells are now included in the semiannual groundwater monitoring program.

The latest semiannual sampling event was conducted during the week of October 2, 2006. This report presents results of the October 2006 sampling event.

Section 2
Groundwater Elevations

The recovery system has been operating on a pulsed pumping cycle since November 11, 2002. During this monitoring period, groundwater levels were measured on October 2, 2006 prior to the groundwater sampling event. Water levels are summarized in Table 1 along with pre-startup elevations measured in January 1998.

Water levels measured on October 2, 2006, were used to construct the water table map shown on Plate 1. These water levels reflect water table conditions near the end of the system-off cycle. As specified in the CAP, hydrographs were also prepared for 12 bedrock wells (MW-4, MW-5, MW-14, MW-17, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, MW-27, and MW-28A). These hydrographs are presented in Appendix A.

The hydrographs for wells MW-14, MW-18, MW-19, MW-21, MW-22, MW-23, MW-24, and MW-27 and historical water table maps have shown a cone of depression around the recovery wells during times of system operation. As expected, the October 2006 (see Plate 1) water levels, measured before the recovery system was restarted following an "off" cycle, do not show this cone of depression around the recovery system.

Table 1
Summary of Groundwater Elevations

LOCATION	TOP OF [1] CASING	WATER TABLE ELEVATION AND DATE OF MEASUREMENT	
		01/21/98 [2]	10/02/06
MW-1	2,123.16	2,066.52	2,061.86
MW-2	2,074.52	2,053.45	2,052.58
MW-4	2,122.38	2,061.38	2,062.38
MW-5	2,121.44	2,058.17	2,057.54
MW-6	2,102.22	2,058.96	2,056.13
MW-7	2,071.17	2,052.76	2,052.14
MW-8	2,075.22	2,054.34	2,054.27
MW-9	2,072.29	2,053.32	2,053.81
MW-10	2,076.30	2,052.95	2,052.34
MW-11	2,109.60	2,046.88	2,040.68
MW-12	2,040.65	2,038.44	2,032.92
MW-13	2,044.67	2,037.38	2,033.12
MW-14	2,119.88	<2040.20	DRY
MW-15	2,058.15	2,046.02	2,045.50
MW-15A	2,058.16	2,047.38	2,046.16
MW-16	2,059.22	2,052.79	2,052.67
MW-16A	2,059.33	2,053.16	2,052.94
MW-17	2,056.71	2,050.77	2,046.49
MW-18	2,036.36	2,023.81	2,019.67
MW-19	2,037.74	2,018.32	2,008.91
MW-20	2,027.36	2,013.59	2,012.53
MW-21	2,036.74	2,022.53	2,020.11
MW-22	2,082.12	2,038.87	DRY
MW-23	2,027.54	2,020.41	2,018.69
MW-24	2,035.05	2,021.21	2,019.82
MW-26R	2,021.35	2,015.12	2,016.47
MW-27	2,051.08	2,025.26	2,023.09
MW-28	2,022.48	2,012.11	2,012.37
MW-28A	2,022.69	2,012.36	2,010.99
RW-1	2,031.70	NM	NM
RW-2	2,071.70	NM	2,050.60
RW-3	2,033.40	NM	NM
RW-4	2,032.10	NM	2,019.98

Elevations are in feet above mean sea level.

(1) Top of casing measured in feet above mean sea level.

(2) Pre-startup

NMNot Measured, well not accessible.

Note: System startup was March 4, 1998.

Water levels preceded with less than sign (<) indicates dry well.

Section 3
Groundwater and Surface Water Quality

Groundwater samples were collected from 27 monitoring wells and 2 recovery wells (RW-1 and RW-4) on October 3 through October 4, 2006. Monitoring wells MW-14 and MW-22 were dry and were not sampled. Monitoring wells MW-18 and MW-21 had insufficient volume of water to sample. Recovery well RW-3 has been off-line since April 2002 because of low yield and related operational problems; thus, no groundwater samples were collected at this location. Surface water samples were also collected from the four surface water stations (SW-1, SW-2, SW-3, and SW-4). Sampling locations are shown on Figure 1 and Plate 1.

Groundwater samples were analyzed for TCE, 1,2-DCE, and vinyl chloride. In addition, eight monitoring wells and two recovery wells (RW-1 and RW-4) were analyzed for PCE. Analytical results are summarized in Table 2. Laboratory analytical reports are presented in Appendix B. Table 3 and Table 4 present a 24-month summary of TCE and 1,2-DCE concentrations. Monitoring wells across the site, where TCE and 1,2-DCE have been detected, are also presented graphically in Appendix C.

3.1 Standard Monitoring Program

3.1.1 Northeast Portion of the Site

During the April sampling event, 19 monitoring wells were sampled on the northeast side of the Girmes facility (Plate 1). TCE was detected in samples collected from six wells (MW-2, MW-4, MW-5, MW-5A, MW-9, and MW-20) with the concentrations observed above the NC 2L standard of 0.0028 mg/L. Since the last sampling event conducted in April 2006, TCE concentrations have increased in samples collected from wells MW-2 and MW-9 and have remained generally unchanged in samples collected from well MW-5A. TCE concentrations have decreased in samples collected from wells MW-4, MW-5 and MW-20 since last sampled in April 2006. A 24-month summary of the TCE concentrations for these wells is presented in Table 3 and shown graphically in Appendix C.

1,2-DCE was detected in samples collected from six monitoring wells. Concentrations of 1,2-DCE were observed above the NC 2L standard of 0.07 mg/L in four of these wells (MW-4, MW-5, MW-5A, and MW-9). Overall, the 1,2-DCE concentrations observed in samples collected from these wells, with the exception of MW-5A, have decreased since

last sampled in April 2006. Concentrations in samples collected from well MW-5A have increased since last sampled. A 24-month summary of the 1,2-DCE concentrations for these wells is presented in Table 4 and shown graphically in Appendix C.

Vinyl chloride was detected in samples collected from three monitoring wells (MW-4 and MW-13). The concentrations observed in these samples were above the NC 2L standard of 0.000015 mg/L. Historically, vinyl chloride has been detected in most samples collected from MW-13, and in some of the samples collected from MW-4 since October 1999.

3.1.2 Southwest Portion of the Site

On the southwest side of the Girmes facility, eight monitoring wells (MW-19, MW-23, MW-24, MW-26R, MW-27, MW-28, MW-28A, and MW-29) and two recovery wells (RW-1 and RW-4) were sampled (Plate 1). Monitoring wells MW-14 and MW-22 were dry and could not be sampled. Monitoring wells MW-18 and MW-21 had insufficient volume of water to sample. Recovery well RW-3 was not operating during the October 2006 sampling event and therefore was not sampled.

TCE was detected in groundwater samples collected from four wells (MW-19, MW-26R, MW-28A, and MW-29) and both recovery wells (RW-1 and RW-4) with concentrations observed above the NC 2L standard. TCE concentrations decreased in samples collected from monitoring wells MW-26R and MW-29 since last sampled in April 2006. TCE concentrations detected in samples collected from monitoring wells MW-19 and MW-28A have increased since last sampled. Concentrations observed in samples collected from recovery wells RW-1 and RW-4 have decreased since April 2006. A 24-month summary of the TCE concentrations for these wells is presented in Table 3 and shown graphically in Appendix C.

Historically, the highest TCE concentration found on the southwest side of the Girmes facility was in samples collected from monitoring well MW-23, opposite Gashes Creek from the Girmes facility. In addition, PCE has been found in monitoring wells on the southwest side of Gashes Creek (see Subsection 3.2). This information indicates that VOCs found on that southwest side of the Gashes Creek are the result of a release on that side of the creek and not related to groundwater quality at the Girmes facility.

1,2-DCE was detected in groundwater samples collected from four of the monitoring wells (MW-19, MW-26R, MW-28A and, MW-29) and in both recovery wells (RW-1 and RW-4). Detected concentrations were all below the NC 2L standard. A 24-month

summary of the 1,2-DCE concentrations for these wells is presented in Table 4 and shown graphically in Appendix C.

Vinyl chloride was detected in the sample collected from monitoring well MW-26R on the southwest side of the Girmes facility at a concentration exceeding the NC 2L standard. Monitoring well MW-26R is located on Dotson's property on the southwest side of Gashes Creek. The detected concentration in monitoring well MW-26R, 0.017 mg/L, has decreased slightly since the previous sampling event and remains above the NC 2L standard.

Surface water samples were collected from four surface water stations (SW-1, SW-2, SW-3, and SW-4) during the April sampling event. None of the surface water samples collected had detections of TCE, 1,2-DCE, or vinyl chloride.

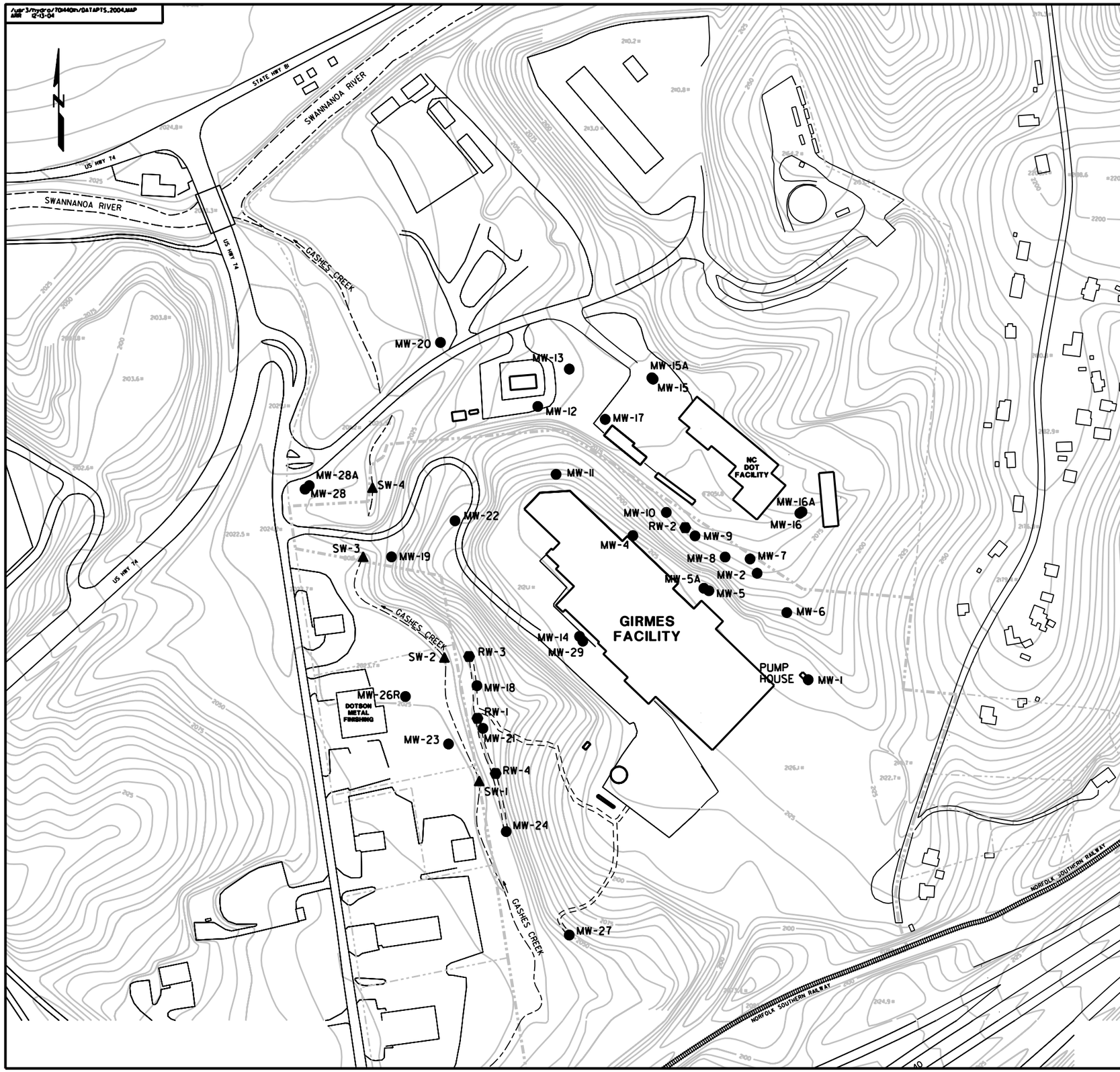
3.2 Additional Analytical Parameter

Since shortly after startup of the groundwater recovery system, in 1998 PCE was found in the influent to the treatment system. Select monitoring wells sampled during the January 1999 monitoring event were analyzed for PCE in addition to the standard analytical parameters. The January 1999 analytical results, along with historical groundwater analytical data collected at the site during the CSA, led SKF to conclude that the PCE and other VOCs found on the southwest side of Gashes Creek have no relationship to the affected groundwater found on the Girmes facility.

In the groundwater monitoring report for the January 1999 sampling event, SKF modified the groundwater monitoring program to continue monitoring all of the wells specified in the CAP according to the specified schedule. In addition to TCE, 1,2-DCE, and vinyl chloride, recovery wells RW-1, RW-3, and RW-4 and select monitoring wells would also be sampled for PCE.

During the October 2006 sampling event, seven monitoring wells (MW-19, MW-23, MW-24, MW-26R, MW-28, MW-28A, and MW-29) and the two operating recovery wells (RW-1 and RW-4) were analyzed for PCE. Analytical results are included in Table 2. PCE was detected in samples collected from monitoring wells MW-23 and MW-28A, (located on the west side of Gashes Creek) and recovery well (RW-1) at concentrations above the NC 2L standards. The PCE concentrations detected in samples collected from monitoring wells MW-23 have decreased since last sampled during April 2006 while the concentrations of this constituent detected in samples collected from MW-28A have increased since last sampled. The PCE concentration observed in the sample collected from recovery well (RW-01) has remained relatively unchanged since last sampled in April 2006. When operating, recovery wells RW-1 and RW-4 recover groundwater from the southwest side of Gashes Creek.

The analytical results for PCE are consistent with the results from previous sampling events conducted since January 1999. The PCE found in these wells appears to be the result of a release on the southwest side of Gashes Creek and does not appear to be related to groundwater quality on the Girmes facility.



LEGEND

▲ SW-1	SURFACE WATER SAMPLING LOCATION
● MW-15	MONITORING WELL LOCATION
- - - - - -	PROPERTY LINE - OTHER
900	TOPOGRAPHIC CONTOUR

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES WERE INCLUDED AS PART OF THE BASE MAP.

0 100 200 300 400
SCALE IN FEET

PROJECT MGR:	D.O. MADSON
PREPARED BY:	J. S. BECHTOLD
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CHECKED BY:	D.O. MADSON
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APPROVED BY:	D. O. MADSON
APPROVED BY:	
DATE:	DECEMBER 2004
JOB NO:	70440

FMC
100 Verdae Boulevard
P.O. Box 16178
Greenville, SC 29606
(864) 281-0030

LOCATION OF DATA POINTS

GIRMES SITE, formerly SKF USA
ASHEVILLE, NORTH CAROLINA

SCALE		FIGURE NO.
AS NOTED		1

Table 2
Analytical Results for Groundwater and Surface Water Samples

STATION	SAMPLE DATE	TCE	1,2-DCE, TOTAL	VINYL CHLORIDE	PCE
NC 2L Standard		**0.0028**	**0.07**	**0.000015**	**0.0007**
MW-01	04-Oct-06	<0.001	<0.001	<0.001	NA
MW-02	04-Oct-06	**0.012**	<0.001	<0.001	NA
MW-04	04-Oct-06	**0.19**	**0.17**	**0.0041**	NA
MW-05	04-Oct-06	**2.5**	**0.23**	<0.001	NA
MW-05A	04-Oct-06	**7.1**	**0.18**	<0.001	NA
MW-06	04-Oct-06	<0.001	<0.001	<0.001	NA
MW-07	04-Oct-06	<0.001	<0.001	<0.001	NA
MW-08	04-Oct-06	<0.001	<0.001	<0.001	NA
MW-09	04-Oct-06	**1.8**	**0.098**	<0.001	NA
MW-10	04-Oct-06	<0.001	**0.017**	<0.001	NA
MW-11	04-Oct-06	<0.001	<0.001	<0.001	NA
MW-12	03-Oct-06	<0.001	<0.001	<0.001	NA
MW-13	03-Oct-06	<0.001	<0.001	**0.0075**	NA
MW-15	03-Oct-06	<0.001	<0.001	<0.001	NA
MW-15A	03-Oct-06	<0.001	<0.001	<0.001	NA
MW-16	03-Oct-06	<0.001	<0.001	<0.001	NA
MW-16A	03-Oct-06	<0.001	<0.001	<0.001	NA
MW-17	03-Oct-06	<0.001	<0.001	<0.001	NA
MW-19	05-Oct-06	**0.077**	**0.0042**	<0.001	<0.001
MW-20	03-Oct-06	**0.0031**	**0.0037**	<0.001	NA
MW-23	03-Oct-06	<0.001	<0.001	<0.001	**0.002**
MW-24	05-Oct-06	**0.0016**	<0.001	<0.001	<0.001
MW-26R	03-Oct-06	**0.0029**	**0.042**	**0.017**	<0.001
MW-27	04-Oct-06	<0.001	<0.001	<0.001	NA
MW-28	03-Oct-06	<0.001	<0.001	<0.001	<0.001
MW-28A	03-Oct-06	**0.013**	**0.0033**	<0.001	**0.025**
MW-28A (DU-06301)	05-Oct-06	**0.014**	**0.004**	<0.001	**0.026**
MW-29	04-Oct-06	**0.2**	**0.0076**	<0.001	NA
RW-1	05-Oct-06	**0.51**	**0.019**	<0.001	**0.013**
RW-1 (DU-06302)	05-Oct-06	**0.52**	**0.015**	<0.001	**0.012**
RW-4	05-Oct-06	**0.2**	**0.0092**	<0.001	<0.001
SW-1	05-Oct-06	<0.001	<0.001	<0.001	NA
SW-2	05-Oct-06	<0.001	<0.001	<0.001	NA
SW-3	03-Oct-06	<0.001	<0.001	<0.001	NA
SW-4	03-Oct-06	<0.001	<0.001	<0.001	NA

(1) Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
< Concentration less than the Quantitation Limit.
NA Not analyzed.
Shading indicates sample exceeds NC 2L Standard.

Table 3
Twenty-four Month Summary of Trichloroethene Concentrations Detected in Groundwater [1]

WELL	SAMPLE DATE				
	OCT-04	APR-05	OCT-05	APR-06	OCT-06
MW-1	ND	ND	ND	ND	ND
MW-2	0.0031	0.0031 j	0.0094	0.0095	0.012
MW-4	0.28	0.28 j	0.28	0.23	0.19
MW-5	5.9	5.3 j	5.6	3.7	2.5
MW-5A	*	*	*	7.2	7.1
MW-6	ND	ND	ND	ND	ND
MW-7	0.0022	ND	ND	0.0023	ND
MW-8	ND	ND	0.0011	ND	ND
MW-9	0.19	0.25 j	0.73	0.9	1.8
MW-10	ND	ND	0.001	0.0019	ND
MW-11	0.0017	0.0015 j	0.0014	ND	ND
MW-12	ND	ND	ND	ND	ND
MW-13	ND	ND	ND	ND	ND
MW-14	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	ND
MW-15A	0.0011	ND	ND	ND	ND
MW-16	ND	ND	ND	ND	ND
MW-16A	ND	ND	ND	ND	ND
MW-17	ND	ND	ND	ND	ND
MW-18	NA	0.0023 j	NA	0.0094	NA
MW-19	0.0085	ND	0.032	0.036	0.077
MW-20	0.008	0.0068 j	0.0082	0.0061	0.0031
MW-21	NA	0.0093 j	NA	NA	NA
MW-22	ND	ND	ND	ND	NA
MW-23	0.0021	0.0038 j	0.0011	0.0015	ND
MW-24	0.0042	0.0053 j	0.0033	0.0026	0.0016
MW-26R	ND	0.0056 j	0.0026	0.0065	0.0029
MW-27	ND	ND	ND	ND	ND
MW-28	ND	ND	ND	ND	ND
MW-28A	0.01	0.011 j	0.01	0.011	0.013
MW-29	*	*	*	0.3	0.2
RW-1	1.1	0.72	1.3	0.75	0.51
RW-3	NA	NA	NA	NA	NA
RW-4	0.2	0.24	0.41	0.29	0.2

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
J Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.
j Concentration considered an estimate based on data validation.
NA Not analyzed.
ND Not detected.
* Wells MW-5A and MW-29 installed January, 2006.

Table 4
Twenty-four Month Summary of 1,2-Dichloroethene Concentrations Detected in Groundwater [1]

WELL	SAMPLE DATE				
	OCT-04	APR-05	OCT-05	APR-06	OCT-06
MW-1	ND	ND	ND	ND	<0.001
MW-2	ND	ND	ND	ND	<0.001
MW-4	0.2	0.18	0.26	0.31	0.17
MW-5	0.34	0.27	0.31	0.3	0.23
MW-5A	*	*	*	0.0082	0.18
MW-6	ND	ND	ND	ND	<0.001
MW-7	ND	ND	ND	ND	<0.001
MW-8	ND	ND	ND	ND	<0.001
MW-9	0.0097	0.017	0.042	0.1	0.098
MW-10	0.0085	0.01	0.015	0.034	0.017
MW-11	ND	ND	ND	ND	<0.001
MW-12	ND	ND	ND	ND	<0.001
MW-13	ND	ND	ND	ND	<0.001
MW-14	NA	NA	NA	NA	NA
MW-15	ND	ND	ND	ND	<0.001
MW-15A	ND	ND	ND	ND	<0.001
MW-16	ND	ND	ND	ND	<0.001
MW-16A	ND	ND	ND	ND	<0.001
MW-17	ND	ND	ND	ND	<0.001
MW-18	NA	ND	NA	ND	NA
MW-19	ND	ND	0.0012	0.0014	0.0042
MW-20	0.0041	0.0058	0.0051	0.0045	0.0037
MW-21	NA	0.0019	NA	NA	NA
MW-22	ND	ND	ND	ND	NA
MW-23	ND	ND	ND	ND	<0.001
MW-24	ND	ND	ND	ND	<0.001
MW-26R	0.014	0.044	0.032	0.044	0.042
MW-27	ND	ND	ND	ND	<0.001
MW-28	ND	ND	ND	ND	<0.001
MW-28A	0.0033	0.0034	0.0029	0.0028	0.0033
MW-29	*	*	*	0.0082	0.0076
RW-1	0.029	0.016	0.032	0.02	0.019
RW-3	NA	NA	NA	NA	NA
RW-4	0.0035	0.0054	0.0088	0.0052	0.0092

[1] Analytical results are reported in milligrams per liter (mg/L) unless otherwise noted.
J Qualitative evidence of analyte present: Concentration detected is greater than the method detection limit but less than the reporting limit.
NA Not analyzed.
ND Not detected.
* Wells MW-5A and MW-29 installed January, 2006.

Section 4
Recovery System Performance

The groundwater recovery system is designed to use three recovery wells to capture affected groundwater. Water from these wells is pumped to an air stripper, where VOCs are removed, and treated water is discharged into Gashes Creek per National Pollutant Discharge Elimination System (NPDES) Permit No. NC0086088. During the April 2002 sampling event it was discovered that the pump in well RW-3 was not operating. Attempts to restart the pump were unsuccessful. Well RW-3 has a yield of about ½ gallon per minute (gpm). Such a low flow in combination with the amount of vertical head between the pump and the land surface results in stress on the pump and its electrical system. This, in turn, resulted in pump failure. The remaining two wells (RW-1 and RW-4) recover approximately 15 and 7 gpm, respectively, and account for nearly all the yield from the groundwater recovery system. Since recovery well RW-3 contributes very little to the overall yield of the groundwater recovery system, it has remained off-line since April 2002 and groundwater recovery continues to include only wells RW-1 and RW-4.

The groundwater recovery system is now operating on a pulse pumping cycle of "on" for 6 weeks, followed by "off" for 6 weeks. This pulsed pumping cycle operational mode was initiated on November 11, 2002.

Influent and effluent to the stripper is sampled on a monthly basis during "on" pumping cycles. Effluent flow is recorded continuously. The analytical results for the influent and effluent are used along with the flow data to estimate the amount of trichloroethene removed each month. Monthly volumes of treated groundwater for the past twelve months (ending October 31, 2006) and the estimated amount of TCE removed since system startup in March 1998 through October 2006 are summarized in Table 5. The estimated amount of groundwater that was recovered and treated during May 2006 through October 2006 is 3.5 million gallons. It is estimated that over 36 pounds of TCE were removed during May 2006 through October 2006. As shown on Table 5, the amount of water treated and TCE removed varied from month to month during this time period. This variance is due to the number of days that the system was in operation each month.

Table 6 summarizes the amount of water treated and the estimated amount of TCE removed each year since operation of the recovery system began in March 1998. For the years 1998 through 2002, the estimated amount of TCE removed declined from 167.7 pounds per year to 31.47 pounds per year. After pulse pumping of the system began in November 2002, the

estimated amount of TCE increased to 38.3 pounds per year in 2003, even further to 55.0 pounds per year in 2004, and to 78.7 pounds in 2005. While pulse pumping of the groundwater recovery system increased the amount of TCE removed, the volume of water removed during both years is significantly less than removed during years of full operation.

Table 5
Operations Summary for the Last 12-Month Period Ending October 30, 2006

CALENDAR MONTH	DAYS	WATER TREATED (million gallons)	TCE REMOVED (pounds)	COMMENTS
10/05	29	1.265	16.9	29 days of normal operation for October
11/05	16	0.622	8.3	Normal operation for 16 days
12/05	0	0	0[1]	System off-line for the month of December
01/06	29	1.23	15.4	Normal operation for 29 days
02/06	18	0.655	8.7[2]	Normal operation for 18 days
03/06	0	0	0[1]	System off-line for the month of March
04/06	27	1.158	10.6	Normal operation for 27 days
05/06	15	0.580	4.8[4]	Normal operation for 15 days
06/06	0	0	0	System off-line for the month of June
07/06	27	1.155	11.6	Normal operation for 27 days
08/06	16	0.635	6.4	Normal operation for 16 days
09/06	0	0	0	System off-line for the month of June
10/06	29	1.207	9.9	Normal operation for 29 days
	2,394	**92.5**	**640.04**	**Total since system startup**

(1) Indicates system was off-line for entire month.
(2) Estimated based on historical data

Table 6
Operations Summary by Year

YEAR	WATER TREATED (million gallons)	TCE REMOVED (pounds)
1998	14.82	167.7
1999	16.33	75.2
2000	12.067	81.77
2001	12.53	45.1
2002	10.7	31.47
2003	6.46	38.3
2004	6.99	55.0
2005	6.94	78.7
2006 (1)	6.617	67.4

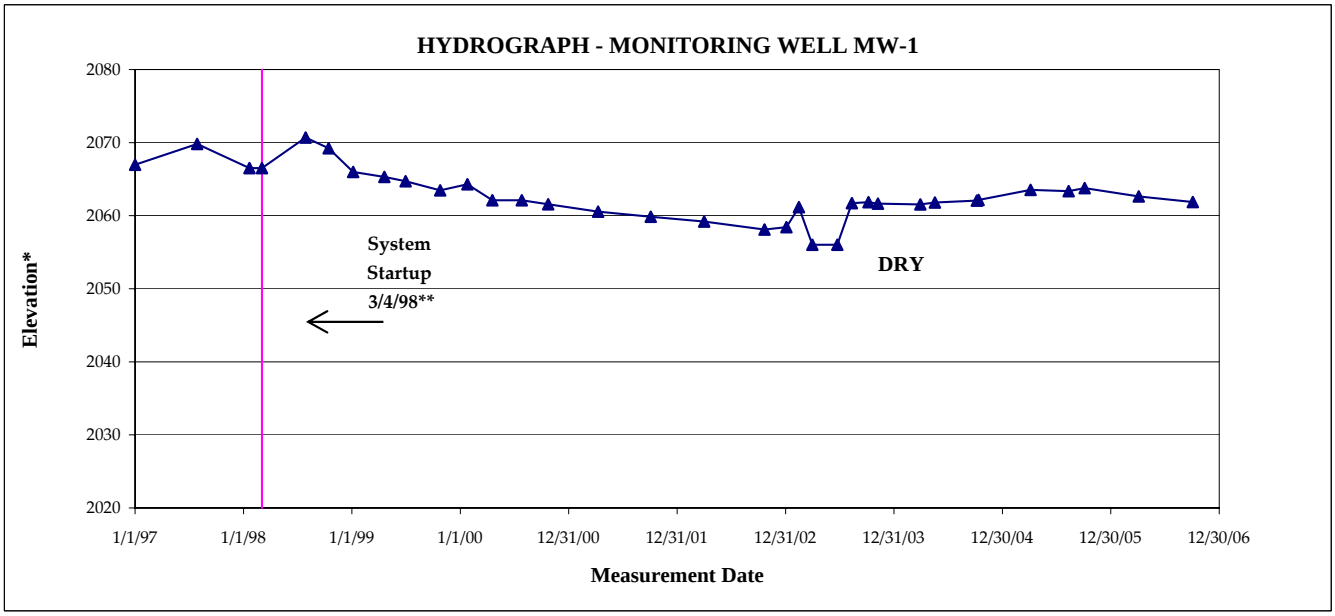
(1) January through October 2006

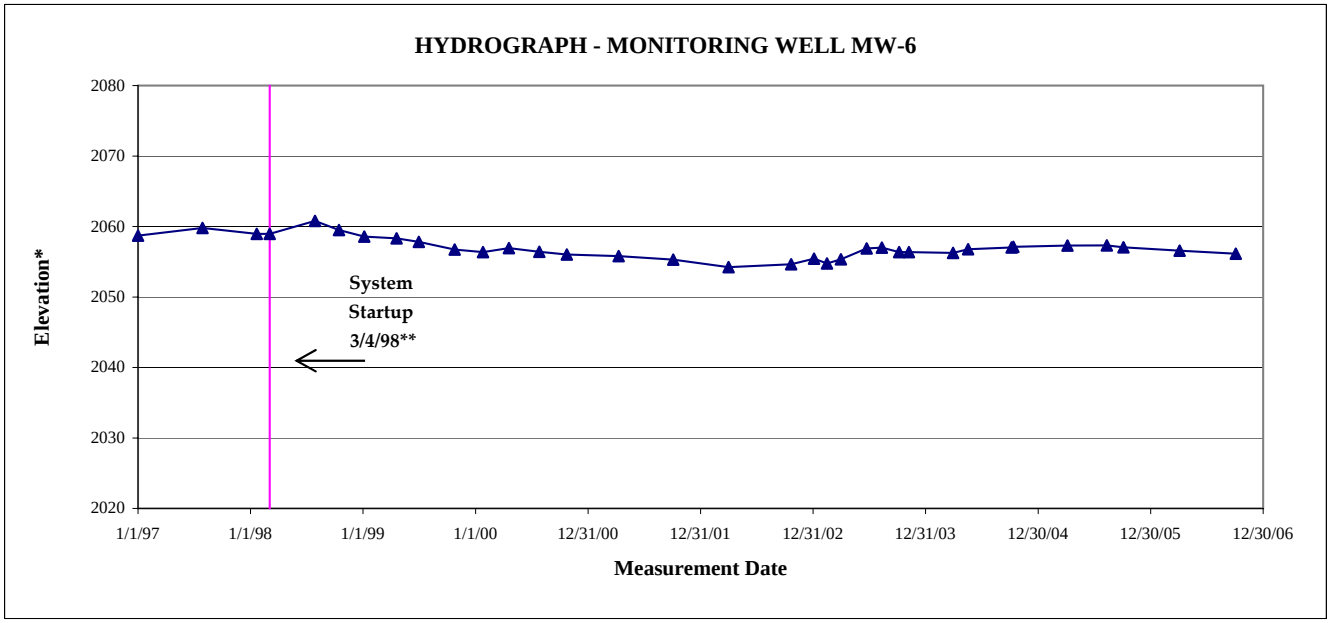
Section 5
Conclusions and Recommendations

Data gathered during the past semiannual monitoring period indicates that the groundwater recovery system is operating effectively. Pulse pumping of the system appears to have increased the volume of VOCs removed annually while decreasing the volume of groundwater removed. Pulse pumping of the groundwater recovery system continues to save costs associated with operations and maintenance of the system. Recovered groundwater continues to be treated and discharged to Gashes Creek in compliance with the NPDES permit.

On May 4, 2006, representatives from SKF, Robert Stevens, and RMT met with Landon Davidson and Meg Howard of NC DENR is Asheville to discuss plans for proposing an enhanced remediation plan for this site. As a result of the meeting, a workplan and underground injection control (UIC) permit application were submitted in October to initiate a phased chemical oxidant (persulfate) injection system to enhance the remediation of the TCE/PCE plume at the site. The workplan proposed to complete two rounds of injections at three to four injection points located inside the existing building. The semiannual groundwater monitoring will be conducted as scheduled in April 2007; however, it is anticipated that the semiannual groundwater monitoring will be discontinued following April 2007 sampling event. Instead, groundwater monitoring will be conducted to evaluate the performance of the proposed injection system. The groundwater recovery system will continue to operate on current pulsed pumping cycle through 2007.

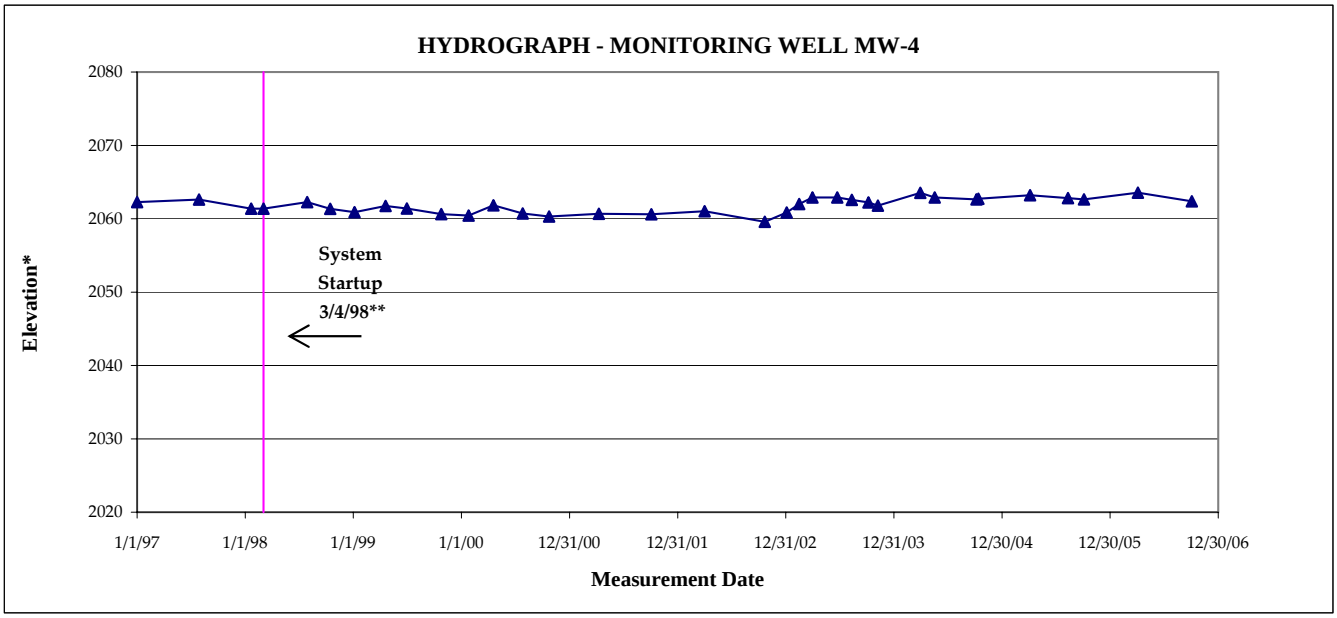
Appendix A
Hydrographs for Bedrock Wells

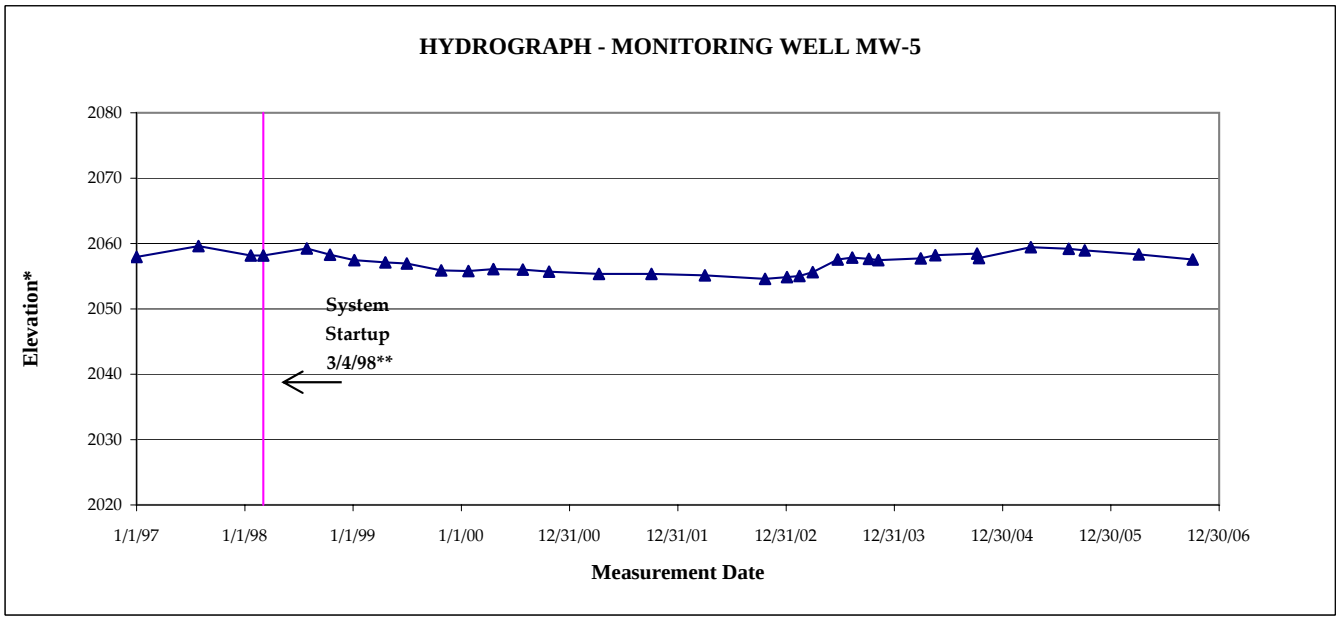




* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up





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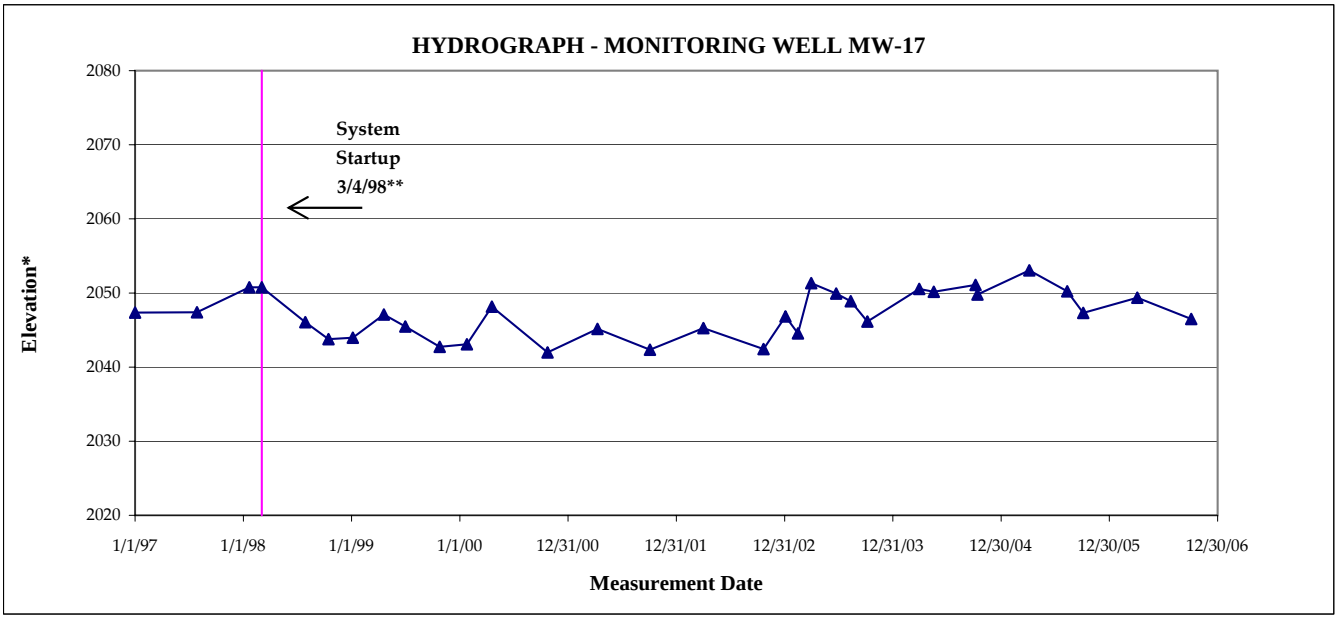

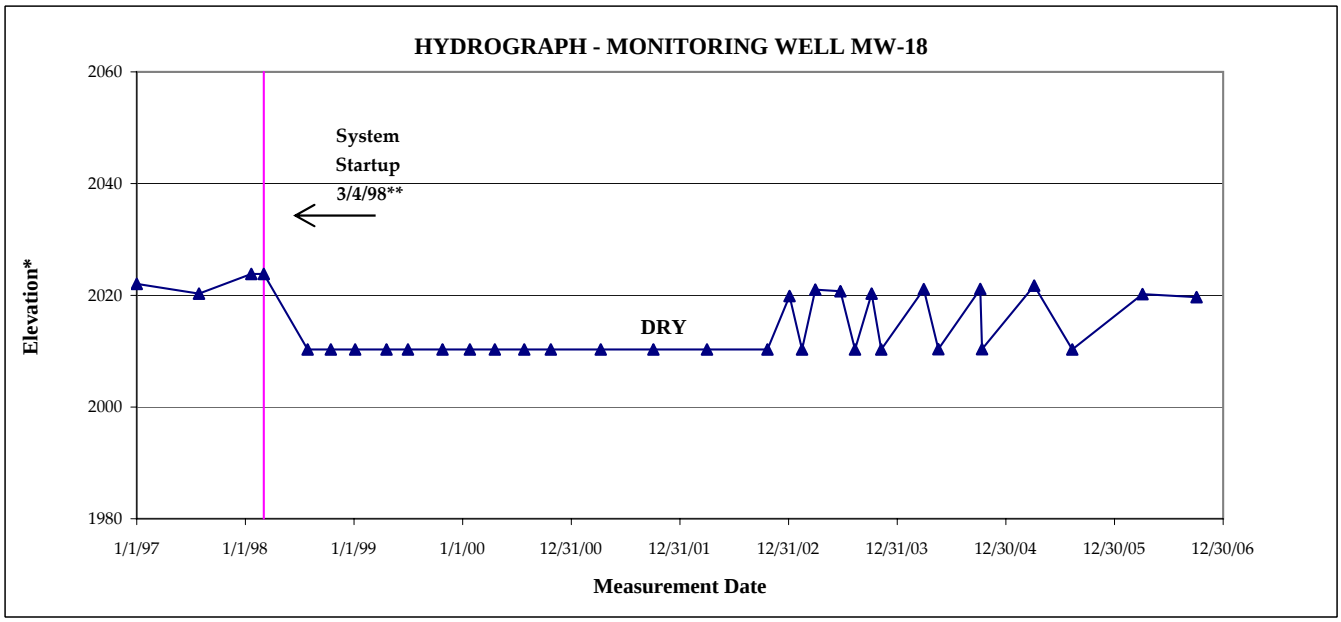

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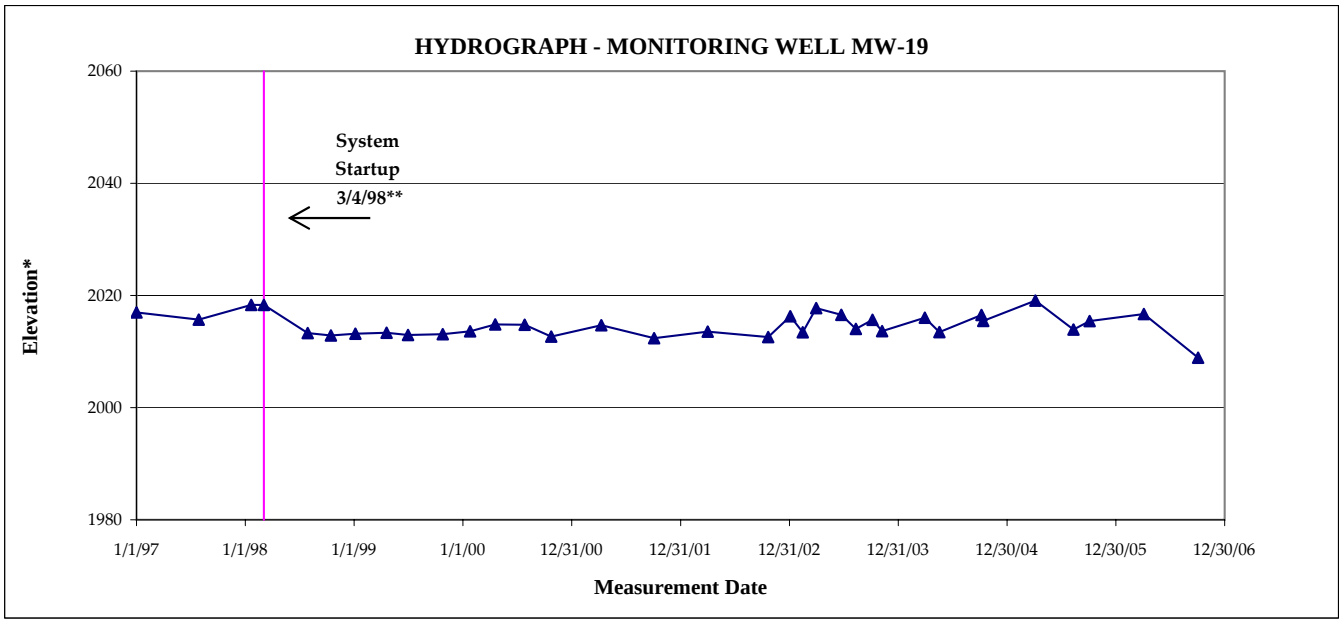

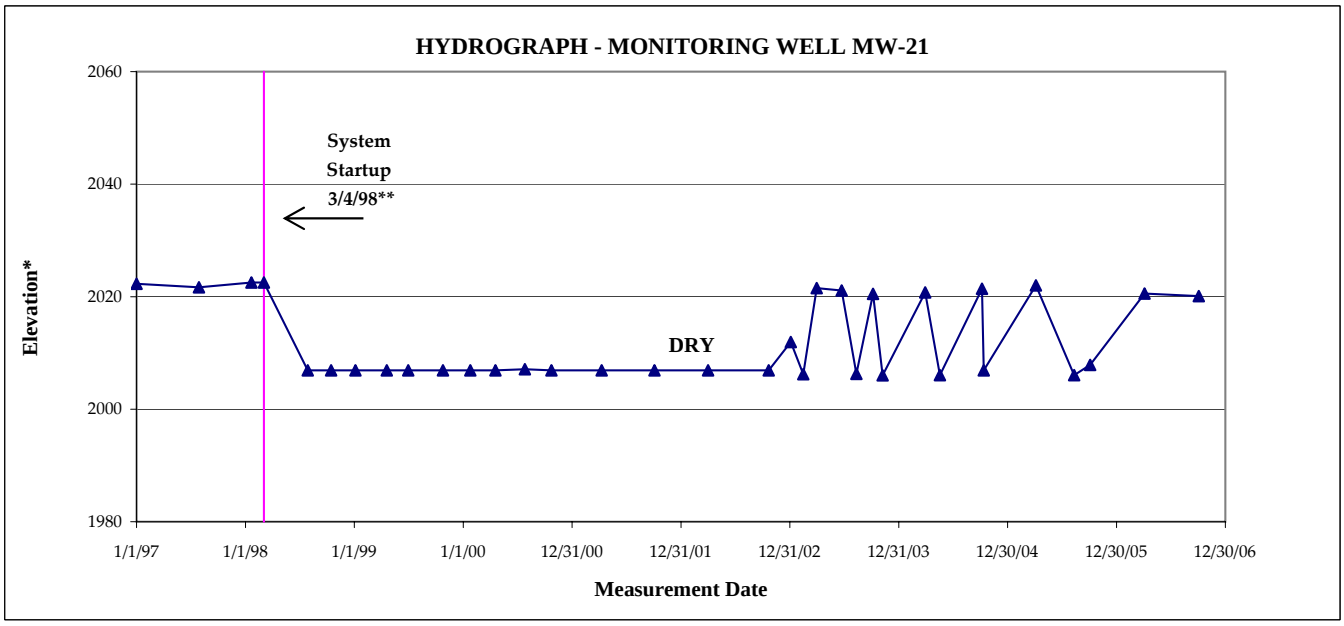

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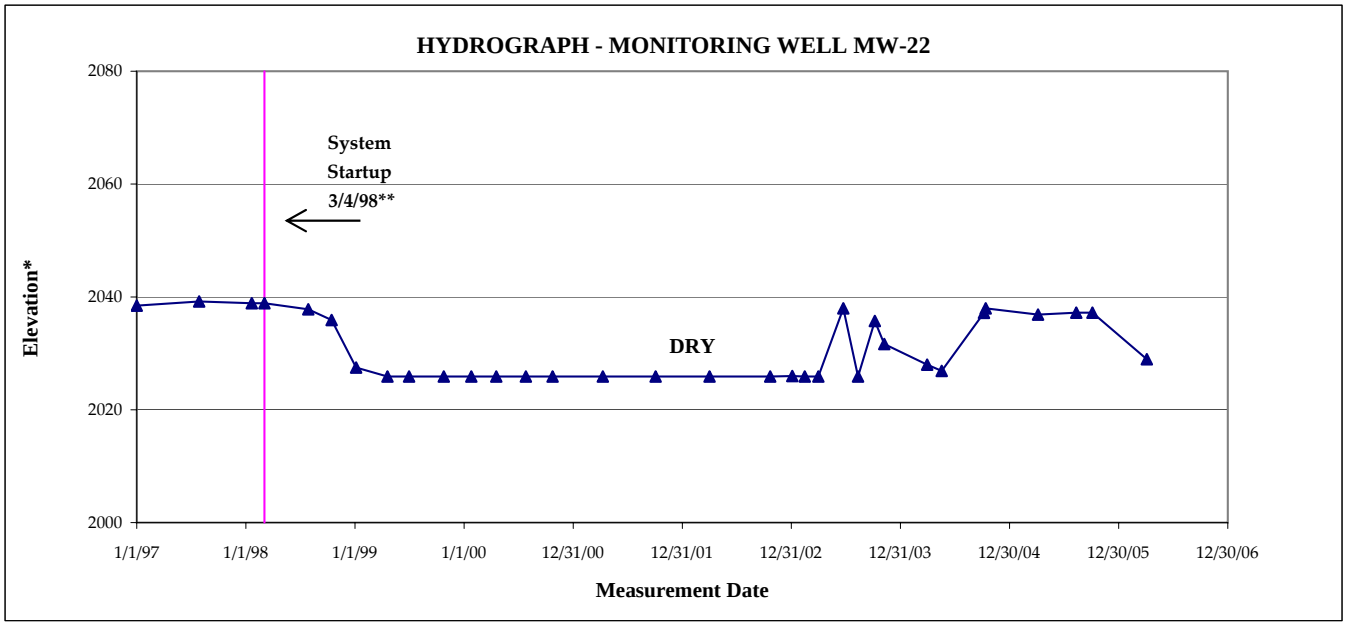

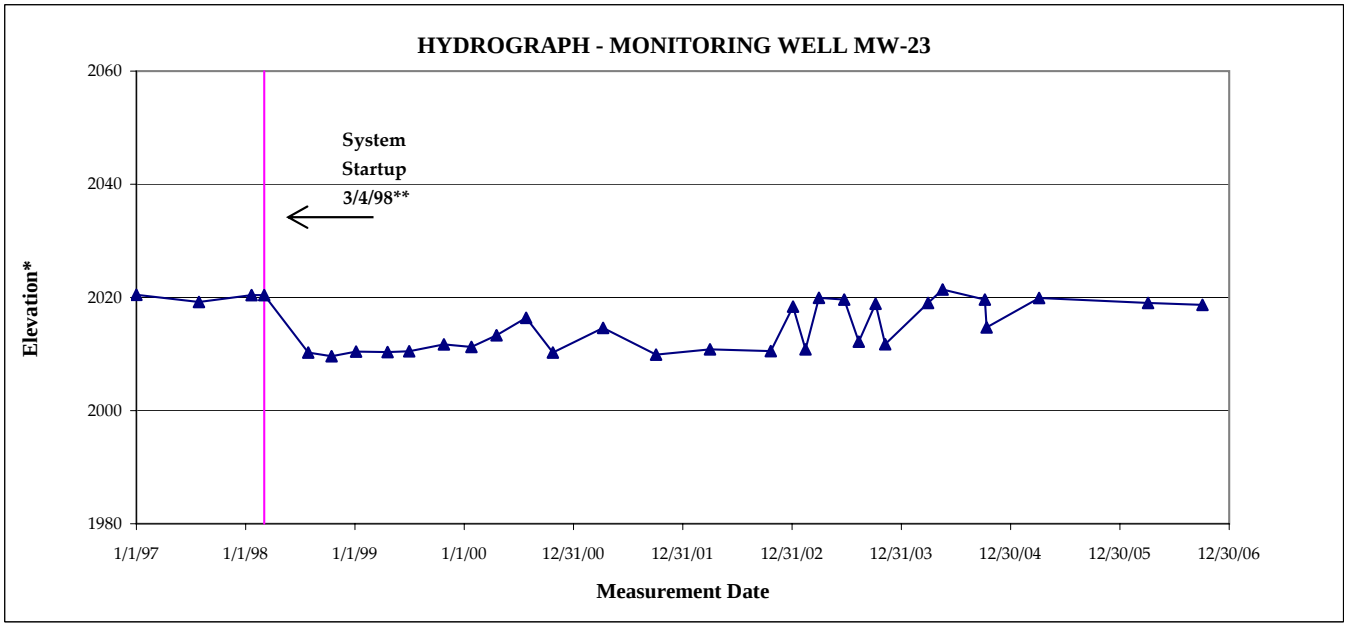

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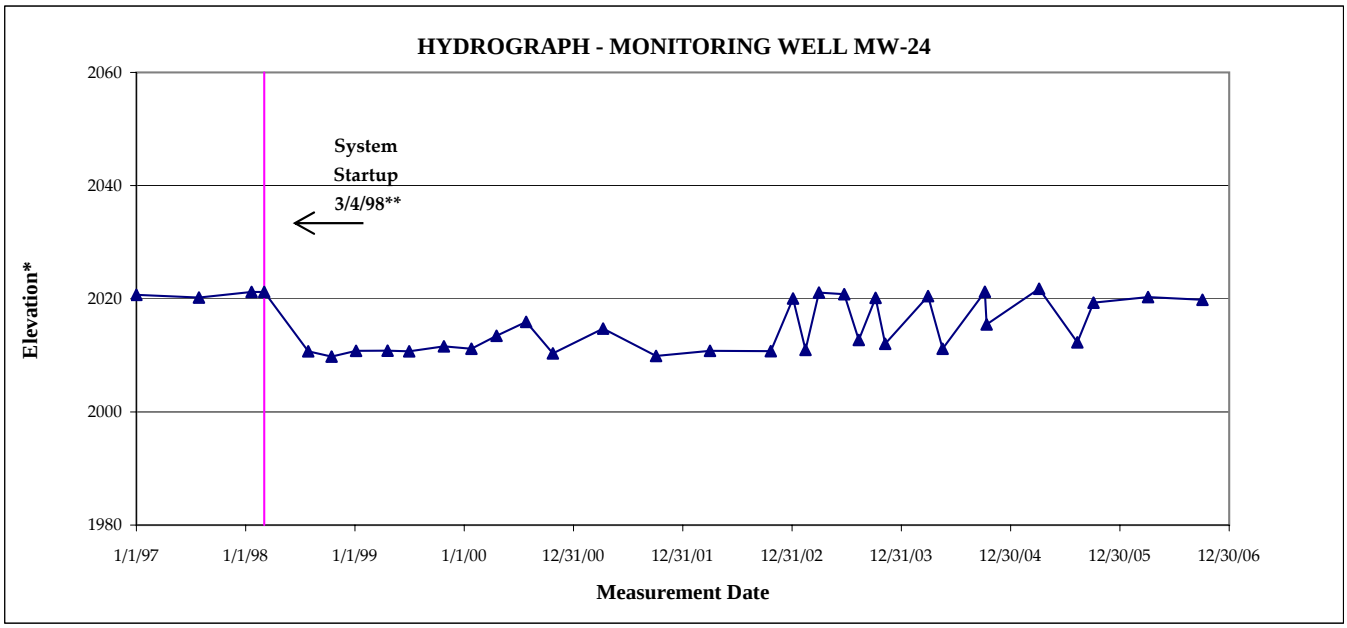

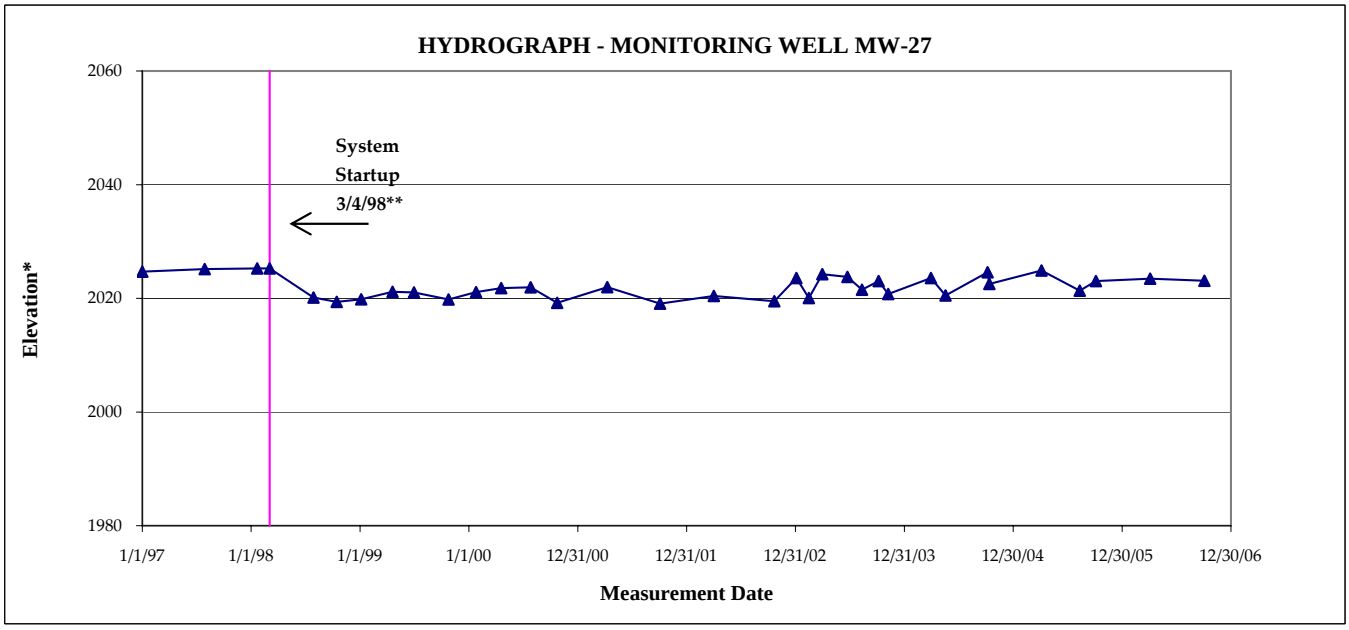

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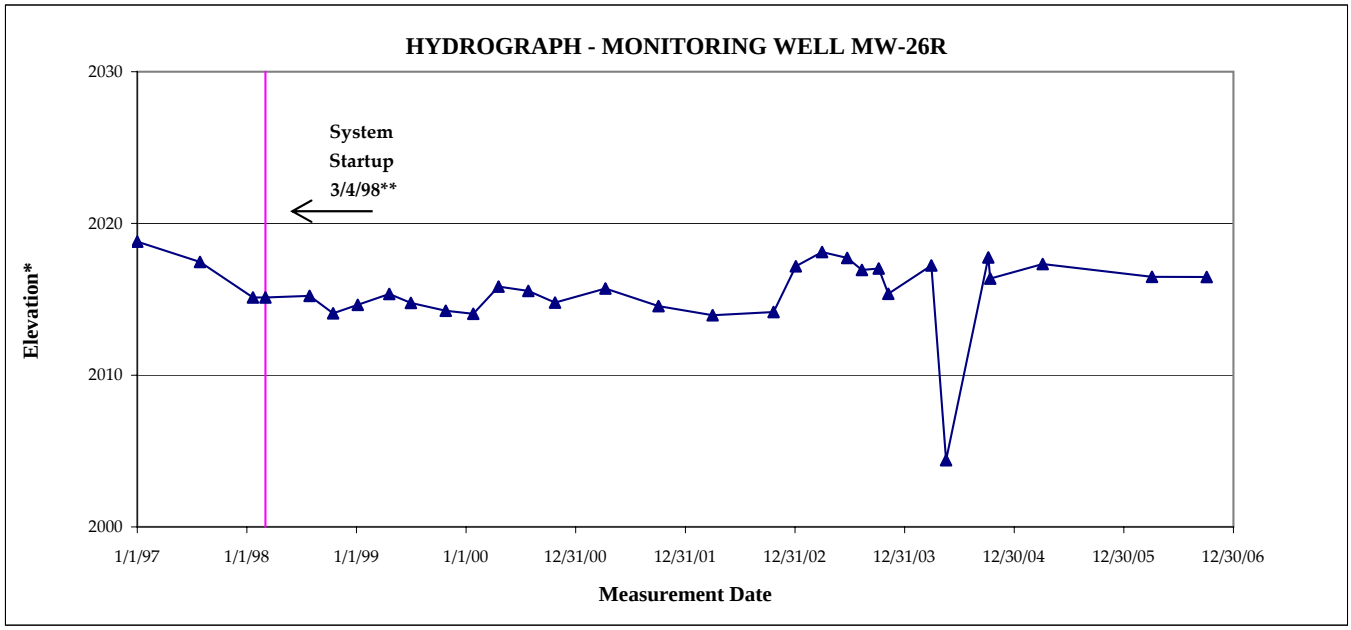

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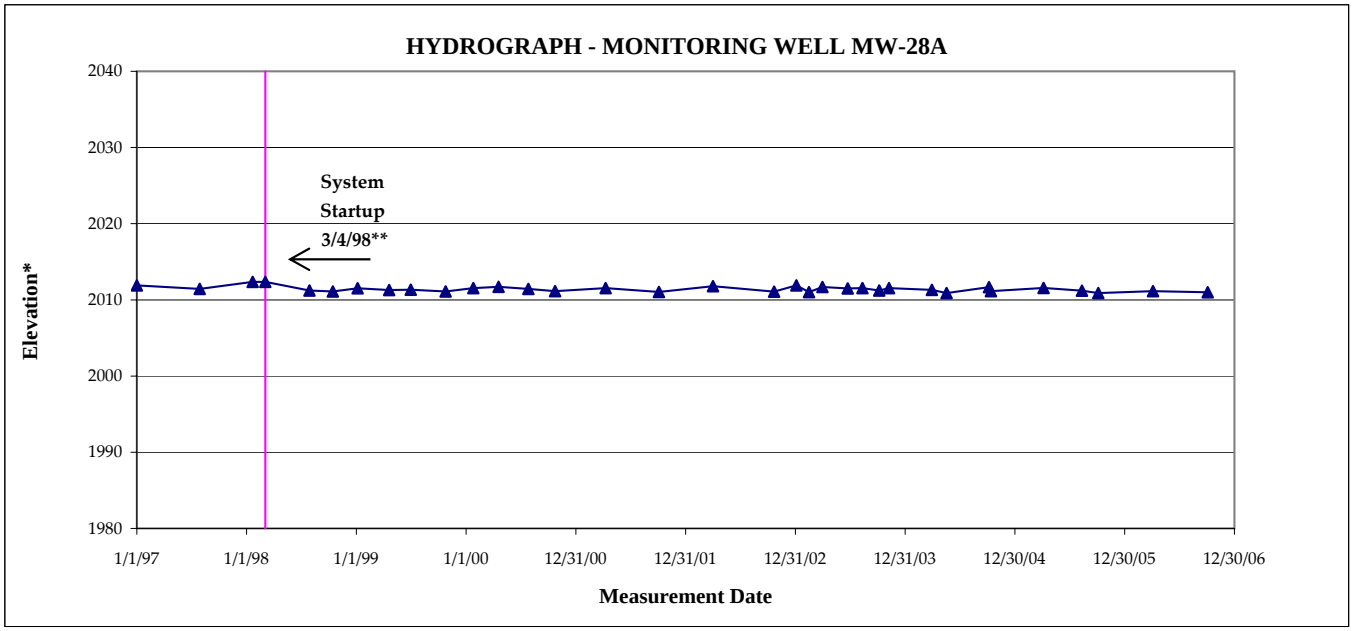

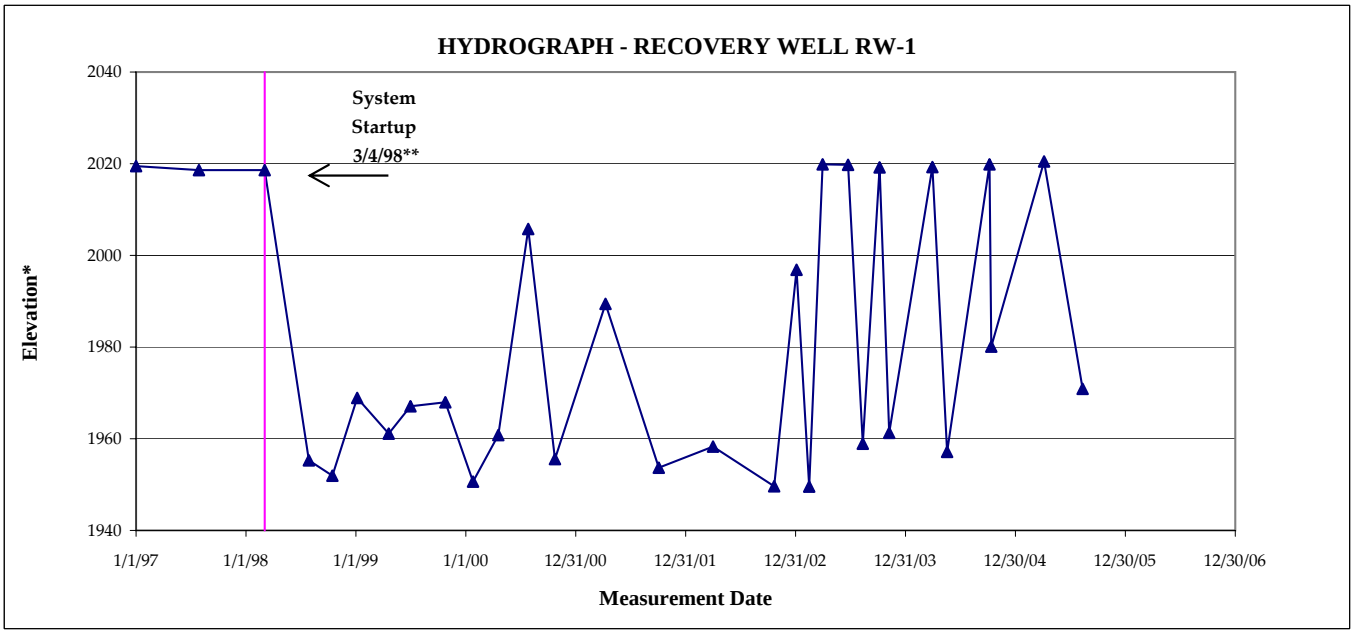

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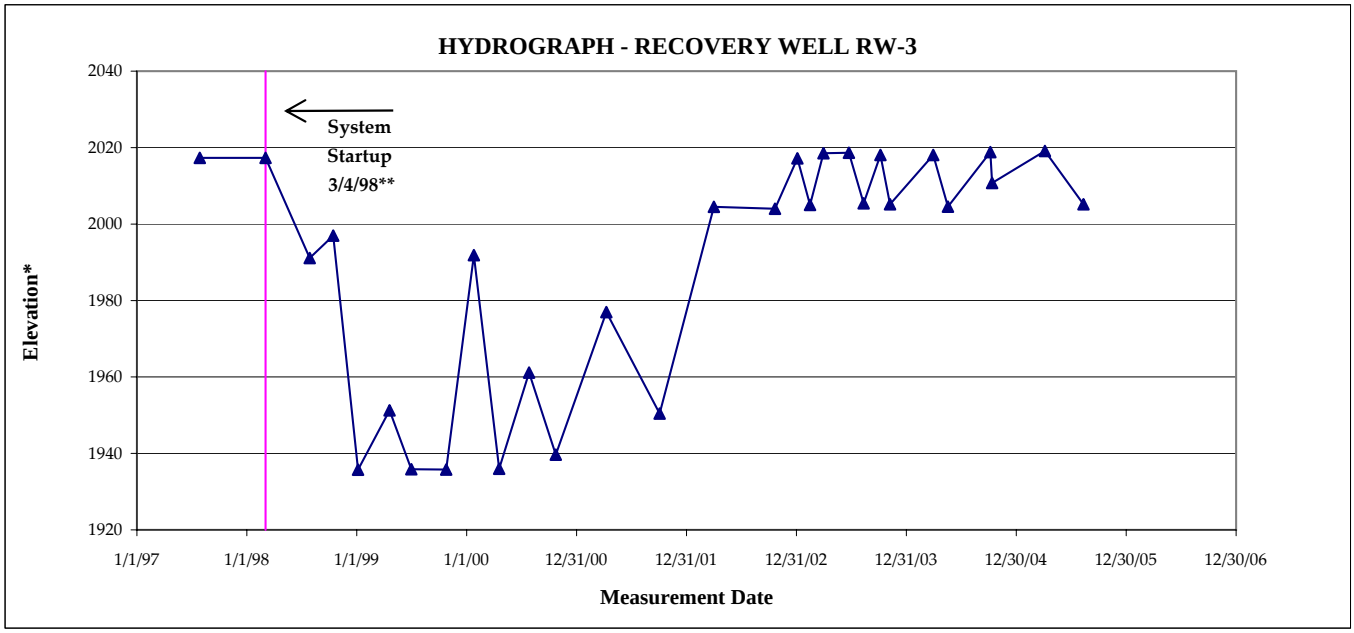

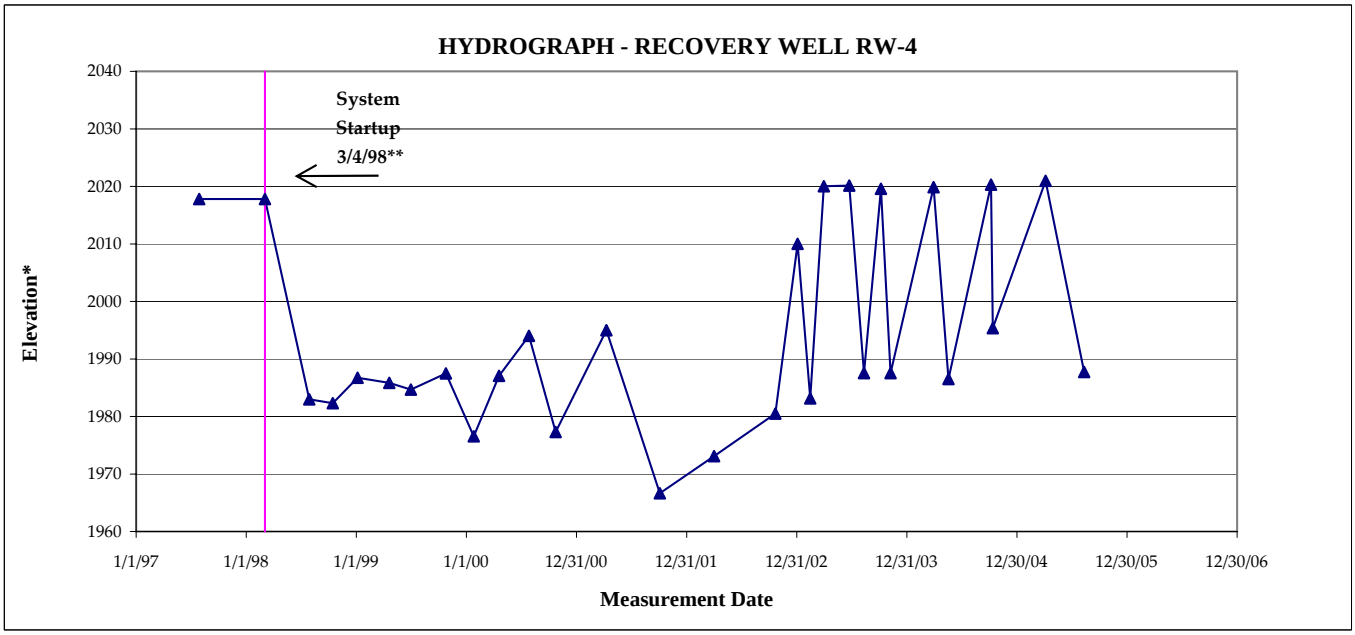

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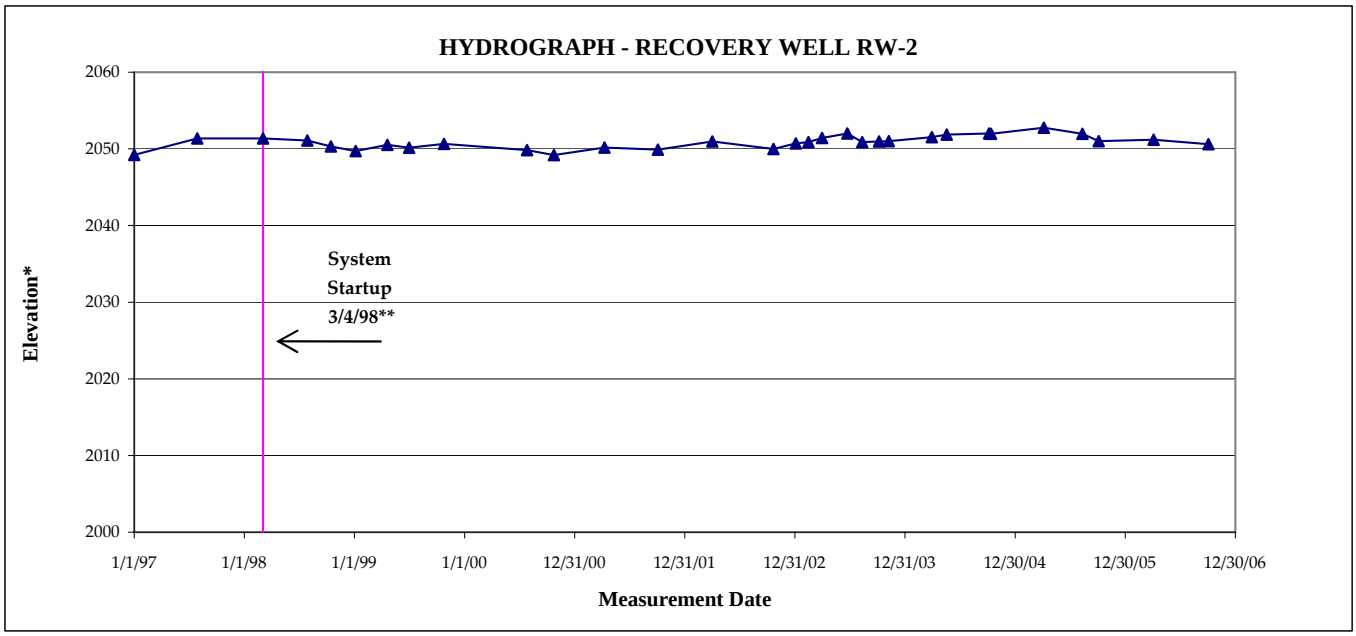

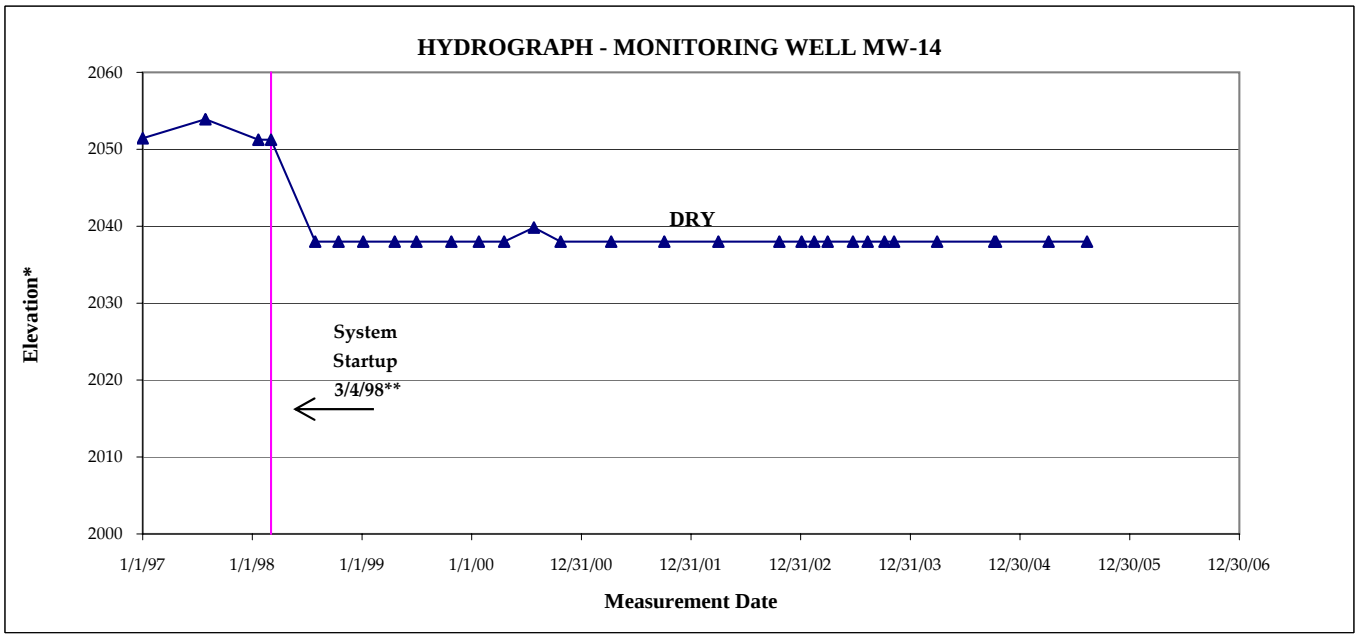

* Elevation in Feet above Mean Sea Level

** Inferred data point added for 3/4/1998 to reflect water level prior to system start up

Appendix B
Laboratory Analytical Reports

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

70144.39

FILE

October 25, 2006

Mr. Mark Bailey
RMT
30 Patewood Drive
Suite 100
Greenville, SC 29615

RE: Lab Project Number: 92129438
Client Project ID: SKF

Dear Mr. Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 6, 2006. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Richard Swartz
richard.swartz@pacelabs.com
(704) 875-9092 ext. 237
Project Manager

Enclosures

– no flags –

QC- 11/15/06
– HT, temp, COC, method, dil, pres, CRL –
– LCS & QC
– TBLK, RBLK –
– surrogates – single surrogates OOC high – select with – OK –

MSMSD = MW-1, MW-29 (TCE recovery high OOC) DW06301 = MW-28A-RPD –
– other batch QC ✓ 302 = RW-01 - RPD ✓

Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC	99030
FL NELAP	E87648

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

SAMPLE SUMMARY

Lab Project Number: 92129438
Client Project ID: SKF

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
92129438-001	927522433	MW-8	Water	10/04/06 11:35	10/06/06 09:30
92129438-002	927522441	MW-7	Water	10/04/06 11:50	10/06/06 09:30
92129438-003	927522458	MW-6	Water	10/04/06 12:20	10/06/06 09:30
92129438-004	927522466	MW-2	Water	10/04/06 12:05	10/06/06 09:30
92129438-005	927522474	MW-1	Water	10/04/06 13:35	10/06/06 09:30
92129438-006	927522482	MW-11	Water	10/04/06 14:30	10/06/06 09:30
92129438-007	927522490	MW-29	Water	10/04/06 15:15	10/06/06 09:30
92129438-008	927522524	MW-27	Water	10/04/06 16:00	10/06/06 09:30
92129438-009	927522540	RW-1	Water	10/05/06 09:25	10/06/06 09:30
92129438-010	927522557	SW-2	Water	10/05/06 09:45	10/06/06 09:30
92129438-011	927522573	MW-16	Water	10/03/06 09:40	10/06/06 09:30
92129438-012	927522581	MW-16A	Water	10/03/06 10:10	10/06/06 09:30
92129438-013	927522599	MW-15	Water	10/03/06 10:50	10/06/06 09:30
92129438-014	927522607	MW-15A	Water	10/03/06 11:15	10/06/06 09:30
92129438-015	927522623	MW-20	Water	10/03/06 11:55	10/06/06 09:30
92129438-016	927522631	MW-17	Water	10/03/06 12:20	10/06/06 09:30
92129438-017	927522656	MW-12	Water	10/03/06	10/06/06 09:30
92129438-018	927522664	MW-13	Water	10/03/06 13:05	10/06/06 09:30
92129438-019	927522672	SW-4	Water	10/03/06 13:15	10/06/06 09:30
92129438-020	927522680	MW-28	Water	10/03/06 13:30	10/06/06 09:30
92129438-021	927522706	MW-28A	Water	10/03/06 14:00	10/06/06 09:30
92129438-022	927522722	MW-26R	Water	10/03/06 14:20	10/06/06 09:30
92129438-023	927522730	MW-23	Water	10/03/06 15:00	10/06/06 09:30
92129438-024	927522748	SW-3	Water	10/03/06 15:05	10/06/06 09:30
92129438-025	927522755	RBLK-06301	Water	10/04/06 08:35	10/06/06 09:30
92129438-026	927522763	MW-4	Water	10/04/06 09:05	10/06/06 09:30
92129438-027	927522771	MW-5	Water	10/04/06 09:50	10/06/06 09:30
92129438-028	927522789	MW-5A	Water	10/04/06 10:20	10/06/06 09:30
92129438-029	927522797	MW-10	Water	10/04/06 11:00	10/06/06 09:30
92129438-030	927522805	MW-09	Water	10/04/06 11:20	10/06/06 09:30
92129438-031	927522813	RW-4	Water	10/05/06 10:05	10/06/06 09:30
92129438-032	927522821	SW-1	Water	10/05/06 10:25	10/06/06 09:30
92129438-033	927522839	MW-24	Water	10/05/06 10:35	10/06/06 09:30
92129438-034	927522847	MW-19	Water	10/05/06 11:10	10/06/06 09:30
92129438-035	927522854	DU-06301	Water	10/05/06	10/06/06 09:30
92129438-036	927522862	DU-06302	Water	10/05/06	10/06/06 09:30
92129438-037	927522888	TBLK-06301	Water	10/05/06	10/06/06 09:30

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SAMPLE ANALYTE COUNT

Lab Project Number: 92129438
Client Project ID: SKF

Project Sample Number	Sample No	Client Sample ID	Analysis Code	Analysis Description	Analytes Reported
92129438-001	927522433	MW-8	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-002	927522441	MW-7	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-003	927522458	MW-6	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-004	927522466	MW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-005	927522474	MW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-006	927522482	MW-11	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-007	927522490	MW-29	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-008	927522524	MW-27	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-009	927522540	RW-1	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-010	927522557	SW-2	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-011	927522573	MW-16	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-012	927522581	MW-16A	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-013	927522599	MW-15	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-014	927522607	MW-15A	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-015	927522623	MW-20	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-016	927522631	MW-17	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-017	927522656	MW-12	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-018	927522664	MW-13	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-019	927522672	SW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-020	927522680	MW-28	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-021	927522706	MW-28A	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-022	927522722	MW-26R	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-023	927522730	MW-23	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-024	927522748	SW-3	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-025	927522755	RBLK-06301	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-026	927522763	MW-4	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-027	927522771	MW-5	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-028	927522789	MW-5A	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-029	927522797	MW-10	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-030	927522805	MW-09	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-031	927522813	RW-4	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-032	927522821	SW-1	8260X WL92	GC/MS VOCs by 8260, low level	9
92129438-033	927522839	MW-24	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-034	927522847	MW-19	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-035	927522854	DU-06301	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-036	927522862	DU-06302	8260X WL92	GC/MS VOCs by 8260, low level	10
92129438-037	927522888	TBLK-06301	8260X WL92	GC/MS VOCs by 8260, low level	10

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522433 Project Sample Number: 92129438-001 Date Collected: 10/04/06 11:35
Client Sample ID: MW-8 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 23:41	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 23:41	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 23:41	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 23:41	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 23:41	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/13/06 23:41	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 23:41	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		10/13/06 23:41	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		10/13/06 23:41	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522441 Project Sample Number: 92129438-002 Date Collected: 10/04/06 11:50
Client Sample ID: MW-7 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 00:04	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 00:04	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 00:04	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 00:04	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 00:04	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/14/06 00:04	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 00:04	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		10/14/06 00:04	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 00:04	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522458 Project Sample Number: 92129438-003 Date Collected: 10/04/06 12:20
Client Sample ID: MW-6 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 00:28	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 00:28	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 00:28	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 00:28	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 00:28	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/14/06 00:28	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/14/06 00:28	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/14/06 00:28	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/14/06 00:28	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522466 Project Sample Number: 92129438-004 Date Collected: 10/04/06 12:05
Client Sample ID: MW-2 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 00:51	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 00:51	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 00:51	MSF	156-60-5		
Trichloroethene	12.	ug/l	1.0	10/14/06 00:51	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 00:51	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/14/06 00:51	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 00:51	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		10/14/06 00:51	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/14/06 00:51	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522474 Project Sample Number: 92129438-005 Date Collected: 10/04/06 13:35
Client Sample ID: MW-1 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 01:14	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 01:14	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 01:14	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 01:14	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 01:14	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/14/06 01:14	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/14/06 01:14	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/14/06 01:14	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 01:14	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522482 Project Sample Number: 92129438-006 Date Collected: 10/04/06 14:30
Client Sample ID: MW-11 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 01:38	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 01:38	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 01:38	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 01:38	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 01:38	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/14/06 01:38	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/14/06 01:38	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/14/06 01:38	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 01:38	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522490 Project Sample Number: 92129438-007 Date Collected: 10/04/06 15:15
Client Sample ID: MW-29 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	7.6	ug/l	1.0	10/14/06 17:19	MCK	540-59-0		
cis-1,2-Dichloroethene	6.7	ug/l	1.0	10/14/06 17:19	MCK	156-59-2		
trans-1,2-Dichloroethene	1.1	ug/l	1.0	10/14/06 17:19	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/14/06 17:19	MCK	127-18-4		
Trichloroethene	200	ug/l	5.0	10/14/06 17:19	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 17:19	MCK	75-01-4		
Toluene-d8 (S)	98	%		10/14/06 17:19	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 17:19	MCK	460-00-4		
Dibromofluoromethane (S)	96	%		10/14/06 17:19	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		10/14/06 17:19	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522524 Project Sample Number: 92129438-008 Date Collected: 10/04/06 16:00
Client Sample ID: MW-27 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 02:02	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 02:02	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 02:02	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 02:02	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 02:02	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/14/06 02:02	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 02:02	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/14/06 02:02	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		10/14/06 02:02	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522540 Project Sample Number: 92129438-009 Date Collected: 10/05/06 09:25
Client Sample ID: RW-1 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	19.	ug/l	1.0	10/14/06 17:43	MCK	540-59-0		
cis-1,2-Dichloroethene	18.	ug/l	1.0	10/14/06 17:43	MCK	156-59-2		
trans-1,2-Dichloroethene	1.0	ug/l	1.0	10/14/06 17:43	MCK	156-60-5		
Tetrachloroethene	13.	ug/l	1.0	10/14/06 17:43	MCK	127-18-4		
Trichloroethene	510	ug/l	10.	10/14/06 17:43	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 17:43	MCK	75-01-4		
Toluene-d8 (S)	103	%		10/14/06 17:43	MCK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/14/06 17:43	MCK	460-00-4		
Dibromofluoromethane (S)	99	%		10/14/06 17:43	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/14/06 17:43	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522557 Project Sample Number: 92129438-010 Date Collected: 10/05/06 09:45
Client Sample ID: SW-2 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 18:06	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 18:06	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 18:06	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 18:06	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 18:06	MCK	75-01-4		
Toluene-d8 (S)	84	%		10/14/06 18:06	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 18:06	MCK	460-00-4		
Dibromofluoromethane (S)	98	%		10/14/06 18:06	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 18:06	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522573 Project Sample Number: 92129438-011 Date Collected: 10/03/06 09:40
Client Sample ID: MW-16 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 11:08	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 11:08	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 11:08	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 11:08	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 11:08	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/13/06 11:08	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 11:08	MSF	460-00-4		
Dibromofluoromethane (S)	104	%		10/13/06 11:08	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		10/13/06 11:08	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522581 Project Sample Number: 92129438-012 Date Collected: 10/03/06 10:10
Client Sample ID: MW-16A Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 11:32	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 11:32	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 11:32	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 11:32	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 11:32	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/13/06 11:32	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/13/06 11:32	MSF	460-00-4		
Dibromofluoromethane (S)	105	%		10/13/06 11:32	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	101	%		10/13/06 11:32	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522599 Project Sample Number: 92129438-013 Date Collected: 10/03/06 10:50
Client Sample ID: MW-15 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 11:55	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 11:55	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 11:55	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 11:55	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 11:55	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/13/06 11:55	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/13/06 11:55	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/13/06 11:55	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/13/06 11:55	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522607 Project Sample Number: 92129438-014 Date Collected: 10/03/06 11:15
Client Sample ID: MW-15A Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 12:19	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 12:19	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 12:19	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 12:19	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 12:19	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/13/06 12:19	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/13/06 12:19	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		10/13/06 12:19	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		10/13/06 12:19	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522623 Project Sample Number: 92129438-015 Date Collected: 10/03/06 11:55
Client Sample ID: MW-20 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	3.7	ug/l	1.0	10/13/06 12:42	MSF	540-59-0		
cis-1,2-Dichloroethene	3.7	ug/l	1.0	10/13/06 12:42	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 12:42	MSF	156-60-5		
Trichloroethene	3.1	ug/l	1.0	10/13/06 12:42	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 12:42	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/13/06 12:42	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/13/06 12:42	MSF	460-00-4		
Dibromofluoromethane (S)	102	%		10/13/06 12:42	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/13/06 12:42	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522631 Project Sample Number: 92129438-016 Date Collected: 10/03/06 12:20
Client Sample ID: MW-17 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 13:06	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 13:06	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 13:06	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 13:06	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 13:06	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/13/06 13:06	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 13:06	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/13/06 13:06	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/13/06 13:06	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522656 Project Sample Number: 92129438-017 Date Collected: 10/03/06 00:00
Client Sample ID: MW-12 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 13:29	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 13:29	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 13:29	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 13:29	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 13:29	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/13/06 13:29	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 13:29	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/13/06 13:29	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/13/06 13:29	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522664 Project Sample Number: 92129438-018 Date Collected: 10/03/06 13:05
Client Sample ID: MW-13 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 13:53	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 13:53	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 13:53	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 13:53	MSF	79-01-6		
Vinyl chloride	7.5	ug/l	1.0	10/13/06 13:53	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/13/06 13:53	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/13/06 13:53	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/13/06 13:53	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		10/13/06 13:53	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522672 Project Sample Number: 92129438-019 Date Collected: 10/03/06 13:15
Client Sample ID: SW-4 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 14:17	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 14:17	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 14:17	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 14:17	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 14:17	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/13/06 14:17	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 14:17	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		10/13/06 14:17	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		10/13/06 14:17	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522680 Project Sample Number: 92129438-020 Date Collected: 10/03/06 13:30
Client Sample ID: MW-28 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 21:43	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 21:43	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 21:43	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/13/06 21:43	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/13/06 21:43	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 21:43	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/13/06 21:43	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/13/06 21:43	MSF	460-00-4		
Dibromofluoromethane (S)	101	%		10/13/06 21:43	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/13/06 21:43	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522706 Project Sample Number: 92129438-021 Date Collected: 10/03/06 14:00
Client Sample ID: MW-28A Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	3.3	ug/l	1.0	10/13/06 22:07	MSF	540-59-0		
cis-1,2-Dichloroethene	3.3	ug/l	1.0	10/13/06 22:07	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 22:07	MSF	156-60-5		
Tetrachloroethene	25.	ug/l	1.0	10/13/06 22:07	MSF	127-18-4		
Trichloroethene	13.	ug/l	1.0	10/13/06 22:07	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 22:07	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/13/06 22:07	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/13/06 22:07	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		10/13/06 22:07	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/13/06 22:07	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522722 Project Sample Number: 92129438-022 Date Collected: 10/03/06 14:20
Client Sample ID: MW-26R Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	42.	ug/l	1.0	10/13/06 22:30	MSF	540-59-0		
cis-1,2-Dichloroethene	42.	ug/l	1.0	10/13/06 22:30	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 22:30	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/13/06 22:30	MSF	127-18-4		
Trichloroethene	2.9	ug/l	1.0	10/13/06 22:30	MSF	79-01-6		
Vinyl chloride	17.	ug/l	1.0	10/13/06 22:30	MSF	75-01-4		
Toluene-d8 (S)	97	%		10/13/06 22:30	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 22:30	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		10/13/06 22:30	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		10/13/06 22:30	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522730 Project Sample Number: 92129438-023 Date Collected: 10/03/06 15:00
Client Sample ID: MW-23 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 22:54	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 22:54	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 22:54	MSF	156-60-5		
Tetrachloroethene	2.0	ug/l	1.0	10/13/06 22:54	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/13/06 22:54	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 22:54	MSF	75-01-4		
Toluene-d8 (S)	98	%		10/13/06 22:54	MSF	2037-26-5		
4-Bromofluorobenzene (S)	98	%		10/13/06 22:54	MSF	460-00-4		
Dibromofluoromethane (S)	95	%		10/13/06 22:54	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		10/13/06 22:54	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522748 Project Sample Number: 92129438-024 Date Collected: 10/03/06 15:05
Client Sample ID: SW-3 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/13/06 23:17	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 23:17	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/13/06 23:17	MSF	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/13/06 23:17	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/13/06 23:17	MSF	75-01-4		
Toluene-d8 (S)	99	%		10/13/06 23:17	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/13/06 23:17	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/13/06 23:17	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/13/06 23:17	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522755 Project Sample Number: 92129438-025 Date Collected: 10/04/06 08:35
Client Sample ID: RBLK-06301 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 02:25	MSF	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 02:25	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 02:25	MSF	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/14/06 02:25	MSF	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/14/06 02:25	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 02:25	MSF	75-01-4		
Toluene-d8 (S)	96	%		10/14/06 02:25	MSF	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/14/06 02:25	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/14/06 02:25	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 02:25	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522763 Project Sample Number: 92129438-026 Date Collected: 10/04/06 09:05
Client Sample ID: MW-4 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	170	ug/l	1.0	10/14/06 02:48	MSF	540-59-0		
cis-1,2-Dichloroethene	160	ug/l	1.0	10/14/06 02:48	MSF	156-59-2		
trans-1,2-Dichloroethene	11.	ug/l	1.0	10/14/06 02:48	MSF	156-60-5		
Trichloroethene	190	ug/l	1.0	10/14/06 02:48	MSF	79-01-6		
Vinyl chloride	4.1	ug/l	1.0	10/14/06 02:48	MSF	75-01-4		
Toluene-d8 (S)	100	%		10/14/06 02:48	MSF	2037-26-5		
4-Bromofluorobenzene (S)	99	%		10/14/06 02:48	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/14/06 02:48	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		10/14/06 02:48	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522771 Project Sample Number: 92129438-027 Date Collected: 10/04/06 09:50
Client Sample ID: MW-5 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	230	ug/l	1.0	10/14/06 03:12	MSF	540-59-0		
cis-1,2-Dichloroethene	220	ug/l	25.	10/14/06 03:12	MSF	156-59-2		
trans-1,2-Dichloroethene	7.0	ug/l	1.0	10/14/06 03:12	MSF	156-60-5		
Trichloroethene	2500	ug/l	25.	10/14/06 03:12	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 03:12	MSF	75-01-4		
Toluene-d8 (S)	121	%		10/14/06 03:12	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 03:12	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/14/06 03:12	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		10/14/06 03:12	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522789 Project Sample Number: 92129438-028 Date Collected: 10/04/06 10:20
Client Sample ID: MW-5A Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	180	ug/l	1.0	10/14/06 03:35	MSF	540-59-0		
cis-1,2-Dichloroethene	180	ug/l	1.0	10/14/06 03:35	MSF	156-59-2		
trans-1,2-Dichloroethene	5.0	ug/l	1.0	10/14/06 03:35	MSF	156-60-5		
Trichloroethene	7100	ug/l	100	10/14/06 03:35	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 03:35	MSF	75-01-4		
Toluene-d8 (S)	161	%		10/14/06 03:35	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/14/06 03:35	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		10/14/06 03:35	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/14/06 03:35	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522797 Project Sample Number: 92129438-029 Date Collected: 10/04/06 11:00
Client Sample ID: MW-10 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	17.	ug/l	1.0	10/14/06 23:35	MCK	540-59-0		
cis-1,2-Dichloroethene	16.	ug/l	1.0	10/14/06 23:35	MCK	156-59-2		
trans-1,2-Dichloroethene	1.1	ug/l	1.0	10/14/06 23:35	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 23:35	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 23:35	MCK	75-01-4		
Toluene-d8 (S)	119	%		10/14/06 23:35	MCK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		10/14/06 23:35	MCK	460-00-4		
Dibromofluoromethane (S)	106	%		10/14/06 23:35	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 23:35	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522805 Project Sample Number: 92129438-030 Date Collected: 10/04/06 11:20
Client Sample ID: MW-09 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	98.	ug/l	1.0	10/14/06 04:22	MSF	540-59-0		
cis-1,2-Dichloroethene	91.	ug/l	1.0	10/14/06 04:22	MSF	156-59-2		
trans-1,2-Dichloroethene	6.4	ug/l	1.0	10/14/06 04:22	MSF	156-60-5		
Trichloroethene	1800	ug/l	20.	10/14/06 04:22	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 04:22	MSF	75-01-4		
Toluene-d8 (S)	111	%		10/14/06 04:22	MSF	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 04:22	MSF	460-00-4		
Dibromofluoromethane (S)	100	%		10/14/06 04:22	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	96	%		10/14/06 04:22	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522813 Project Sample Number: 92129438-031 Date Collected: 10/05/06 10:05
Client Sample ID: RW-4 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	9.2	ug/l	1.0	10/14/06 18:30	MCK	540-59-0		
cis-1,2-Dichloroethene	8.3	ug/l	1.0	10/14/06 18:30	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 18:30	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/14/06 18:30	MCK	127-18-4		
Trichloroethene	200	ug/l	5.0	10/14/06 18:30	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 18:30	MCK	75-01-4		
Toluene-d8 (S)	85	%		10/14/06 18:30	MCK	2037-26-5		
4-Bromofluorobenzene (S)	105	%		10/14/06 18:30	MCK	460-00-4		
Dibromofluoromethane (S)	88	%		10/14/06 18:30	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		10/14/06 18:30	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522821 Project Sample Number: 92129438-032 Date Collected: 10/05/06 10:25
Client Sample ID: SW-1 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 18:53	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 18:53	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 18:53	MCK	156-60-5		
Trichloroethene	ND	ug/l	1.0	10/14/06 18:53	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 18:53	MCK	75-01-4		
Toluene-d8 (S)	107	%		10/14/06 18:53	MCK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		10/14/06 18:53	MCK	460-00-4		
Dibromofluoromethane (S)	98	%		10/14/06 18:53	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/14/06 18:53	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522839 Project Sample Number: 92129438-033 Date Collected: 10/05/06 10:35
Client Sample ID: MW-24 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/14/06 19:17	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 19:17	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 19:17	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/14/06 19:17	MCK	127-18-4		
Trichloroethene	1.6	ug/l	1.0	10/14/06 19:17	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 19:17	MCK	75-01-4		
Toluene-d8 (S)	120	%		10/14/06 19:17	MCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		10/14/06 19:17	MCK	460-00-4		
Dibromofluoromethane (S)	98	%		10/14/06 19:17	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	99	%		10/14/06 19:17	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522847 Project Sample Number: 92129438-034 Date Collected: 10/05/06 11:10
Client Sample ID: MW-19 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	4.2	ug/l	1.0	10/14/06 19:40	MCK	540-59-0		
cis-1,2-Dichloroethene	4.2	ug/l	1.0	10/14/06 19:40	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/14/06 19:40	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/14/06 19:40	MCK	127-18-4		
Trichloroethene	77.	ug/l	1.0	10/14/06 19:40	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/14/06 19:40	MCK	75-01-4		
Toluene-d8 (S)	83	%		10/14/06 19:40	MCK	2037-26-5		
4-Bromofluorobenzene (S)	86	%		10/14/06 19:40	MCK	460-00-4		
Dibromofluoromethane (S)	91	%		10/14/06 19:40	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		10/14/06 19:40	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522854 Project Sample Number: 92129438-035 Date Collected: 10/05/06 00:00
Client Sample ID: DU-06301 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	4.0	ug/l	1.0	10/15/06 18:37	MCK	540-59-0		
cis-1,2-Dichloroethene	4.0	ug/l	1.0	10/15/06 18:37	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/15/06 18:37	MCK	156-60-5		
Tetrachloroethene	26.	ug/l	1.0	10/15/06 18:37	MCK	127-18-4		
Trichloroethene	14.	ug/l	1.0	10/15/06 18:37	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/15/06 18:37	MCK	75-01-4		
Toluene-d8 (S)	94	%		10/15/06 18:37	MCK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		10/15/06 18:37	MCK	460-00-4		
Dibromofluoromethane (S)	95	%		10/15/06 18:37	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/15/06 18:37	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522862 Project Sample Number: 92129438-036 Date Collected: 10/05/06 00:00
Client Sample ID: DU-06302 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	15.	ug/l	1.0	10/18/06 01:34	MSF	540-59-0		
cis-1,2-Dichloroethene	15.	ug/l	1.0	10/18/06 01:34	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/18/06 01:34	MSF	156-60-5		
Tetrachloroethene	12.	ug/l	1.0	10/18/06 01:34	MSF	127-18-4		
Trichloroethene	520	ug/l	5.0	10/18/06 01:34	MSF	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/18/06 01:34	MSF	75-01-4		
Toluene-d8 (S)	102	%		10/18/06 01:34	MSF	2037-26-5		
4-Bromofluorobenzene (S)	108	%		10/18/06 01:34	MSF	460-00-4		
Dibromofluoromethane (S)	92	%		10/18/06 01:34	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	87	%		10/18/06 01:34	MSF	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

Lab Sample No: 927522888 Project Sample Number: 92129438-037 Date Collected: 10/05/06 00:00
Client Sample ID: TBLK-06301 Matrix: Water Date Received: 10/06/06 09:30

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260, low level	Method: EPA 8260							
1,2-Dichloroethene (Total)	ND	ug/l	1.0	10/15/06 20:11	MCK	540-59-0		
cis-1,2-Dichloroethene	ND	ug/l	1.0	10/15/06 20:11	MCK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	1.0	10/15/06 20:11	MCK	156-60-5		
Tetrachloroethene	ND	ug/l	1.0	10/15/06 20:11	MCK	127-18-4		
Trichloroethene	ND	ug/l	1.0	10/15/06 20:11	MCK	79-01-6		
Vinyl chloride	ND	ug/l	1.0	10/15/06 20:11	MCK	75-01-4		
Toluene-d8 (S)	92	%		10/15/06 20:11	MCK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		10/15/06 20:11	MCK	460-00-4		
Dibromofluoromethane (S)	102	%		10/15/06 20:11	MCK	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		10/15/06 20:11	MCK	17060-07-0		

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Lab Project Number: 92129438
Client Project ID: SKF

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

QC Batch: 170133 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 927522573 927522581 927522599 927522607 927522623 927522631 927522656 927522664 927522672

METHOD BLANK: 927548339
Associated Lab Samples: 927522573 927522581 927522599 927522607 927522623 927522631 927522656 927522664 927522672

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	95		
1,2-Dichloroethane-d4 (S)	%	93		

LABORATORY CONTROL SAMPLE: 927548347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	112.0	112		
cis-1,2-Dichloroethene	ug/l	50.00	55.55	111	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	56.40	113	67-134	
Trichloroethene	ug/l	50.00	59.83	120	63-134	
Vinyl chloride	ug/l	50.00	63.17	126	50-130	
Toluene-d8 (S)				100	70-120	
4-Bromofluorobenzene (S)				99	76-112	
Dibromofluoromethane (S)				96	86-119	
1,2-Dichloroethane-d4 (S)				100	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927548560 927548578

Parameter	Units	927519504 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	53.56	53.48	107	107	55-138	0		
Toluene-d8 (S)						98	99	70-120			
4-Bromofluorobenzene (S)						97	98	76-112			
Dibromofluoromethane (S)						100	102	86-119			
1,2-Dichloroethane-d4 (S)						94	97	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

QC Batch: 170263 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 927522433, 927522441, 927522458, 927522466, 927522474, 927522482, 927522524, 927522680, 927522706, 927522722, 927522730, 927522748, 927522755, 927522763, 927522771, 927522789, 927522797, 927522805

METHOD BLANK: 927554683
Associated Lab Samples: 927522433, 927522441, 927522458, 927522466, 927522474, 927522482, 927522524, 927522680, 927522706, 927522722, 927522730, 927522748, 927522755, 927522763, 927522771, 927522789, 927522797, 927522805

Parameter	Units	Blank Result	Reporting Limit	Footnotes
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	96		
1,2-Dichloroethane-d4 (S)	%	94		

LABORATORY CONTROL SAMPLE: 927554691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	114.9	115		
cis-1,2-Dichloroethene	ug/l	50.00	58.22	116	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	56.68	113	67-134	
Tetrachloroethene	ug/l	50.00	54.67	109	50-150	
Trichloroethene	ug/l	50.00	54.32	109	63-134	
Vinyl chloride	ug/l	50.00	63.41	127	50-130	
Toluene-d8 (S)				99	70-120	
4-Bromofluorobenzene (S)				99	76-112	
Dibromofluoromethane (S)				97	86-119	
1,2-Dichloroethane-d4 (S)				89	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

QC Batch: 170325 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 927522490 927522540 927522557 927522813 927522821 927522839 927522847

METHOD BLANK: 927558957
Associated Lab Samples: 927522490 927522540 927522557 927522813 927522821 927522839 927522847

Parameter	Units	Blank Result	Reporting Limit	Footnotes
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	92		

LABORATORY CONTROL SAMPLE: 927558965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	108.2	108		
cis-1,2-Dichloroethene	ug/l	50.00	54.98	110	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	53.25	107	67-134	
Tetrachloroethene	ug/l	50.00	52.02	104	50-150	
Trichloroethene	ug/l	50.00	50.85	102	63-134	
Vinyl chloride	ug/l	50.00	56.47	113	50-130	
Toluene-d8 (S)				100	70-120	
4-Bromofluorobenzene (S)				99	76-112	
Dibromofluoromethane (S)				97	86-119	
1,2-Dichloroethane-d4 (S)				96	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927558973 927558981

Parameter	Units	927522490 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	201.5	50.00	291.9	282.3	181	162	55-138	3		1,1
Toluene-d8 (S)						118	113	70-120			
4-Bromofluorobenzene (S)						111	77	76-112			
Dibromofluoromethane (S)						112	96	86-119			
1,2-Dichloroethane-d4 (S)						96	95	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

QC Batch: 170344 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 927522854 927522888

METHOD BLANK: 927559260
Associated Lab Samples: 927522854 927522888

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	94		
Dibromofluoromethane (S)	%	97		
1,2-Dichloroethane-d4 (S)	%	90		

LABORATORY CONTROL SAMPLE: 927559278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	100.7	101		
cis-1,2-Dichloroethene	ug/l	50.00	55.43	111	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	45.26	90	67-134	
Tetrachloroethene	ug/l	50.00	48.40	97	50-150	
Trichloroethene	ug/l	50.00	54.38	109	63-134	
Vinyl chloride	ug/l	50.00	59.89	120	50-130	
Toluene-d8 (S)				84	70-120	
4-Bromofluorobenzene (S)				109	76-112	
Dibromofluoromethane (S)				86	86-119	
1,2-Dichloroethane-d4 (S)				110	79-130	

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927559716 927559724

Parameter	Units	927527044 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l		50.00	52.92	56.42			55-138	6		
Toluene-d8 (S)						98	95	70-120			
4-Bromofluorobenzene (S)						93	100	76-112			
Dibromofluoromethane (S)						114	88	86-119			
1,2-Dichloroethane-d4 (S)						92	88	79-130			

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QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

QC Batch: 170528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 927522862

METHOD BLANK: 927566950
Associated Lab Samples: 927522862

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethene (Total)	ug/l	ND	1.0	
cis-1,2-Dichloroethene	ug/l	ND	1.0	
trans-1,2-Dichloroethene	ug/l	ND	1.0	
Tetrachloroethene	ug/l	ND	1.0	
Trichloroethene	ug/l	ND	1.0	
Vinyl chloride	ug/l	ND	1.0	
Toluene-d8 (S)	%	94		
4-Bromofluorobenzene (S)	%	103		
Dibromofluoromethane (S)	%	93		
1,2-Dichloroethane-d4 (S)	%	83		

LABORATORY CONTROL SAMPLE: 927566968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
1,2-Dichloroethene (Total)	ug/l	100.00	98.23	98		
cis-1,2-Dichloroethene	ug/l	50.00	47.33	95	65-130	
trans-1,2-Dichloroethene	ug/l	50.00	50.90	102	67-134	
Tetrachloroethene	ug/l	50.00	42.12	84	50-150	
Trichloroethene	ug/l	50.00	45.97	92	63-134	
Vinyl chloride	ug/l	50.00	52.51	105	50-130	
Toluene-d8 (S)				84	70-120	
4-Bromofluorobenzene (S)				106	76-112	
Dibromofluoromethane (S)				103	86-119	
1,2-Dichloroethane-d4 (S)				86	79-130	

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92129438
Client Project ID: SKF

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 927567297 927567305

Parameter	Units	927558833 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Trichloroethene	ug/l	0	50.00	48.71	46.74	97	94	55-138	4		
Toluene-d8 (S)						94	94	70-120			
4-Bromofluorobenzene (S)						103	106	76-112			
Dibromofluoromethane (S)						95	96	86-119			
1,2-Dichloroethane-d4 (S)						85	88	79-130			

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The spike recovery was outside acceptance limits for the MS and/or MSD due to an analyte concentration in the sample at four times greater than the spike concentration. The QC batch was accepted based upon LCS and/or LCSD recoveries within acceptance limits.

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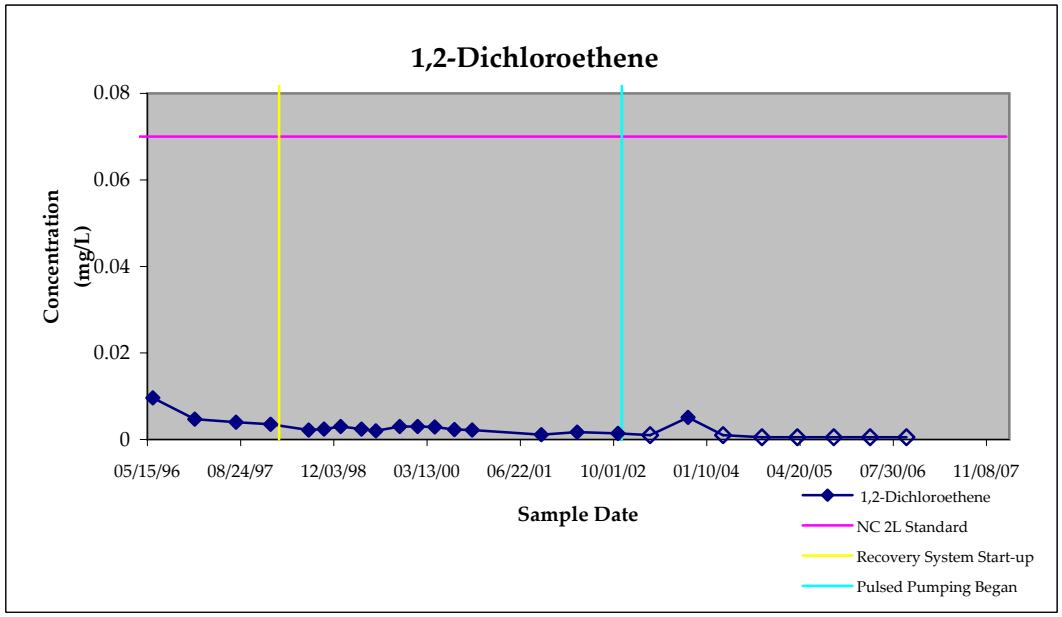
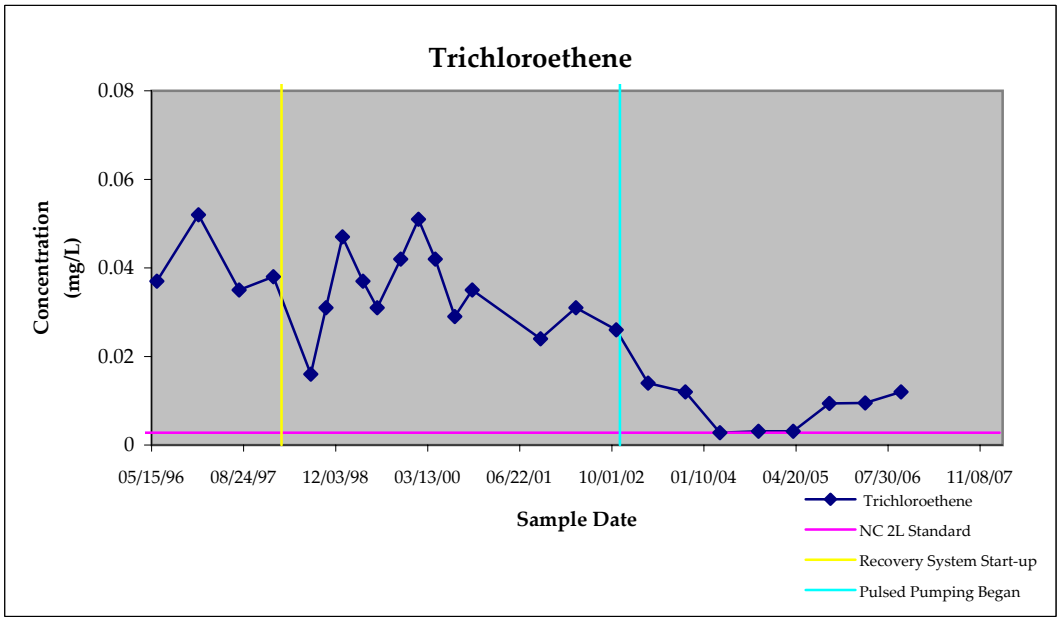
Appendix C
Time Versus Concentration Graphs

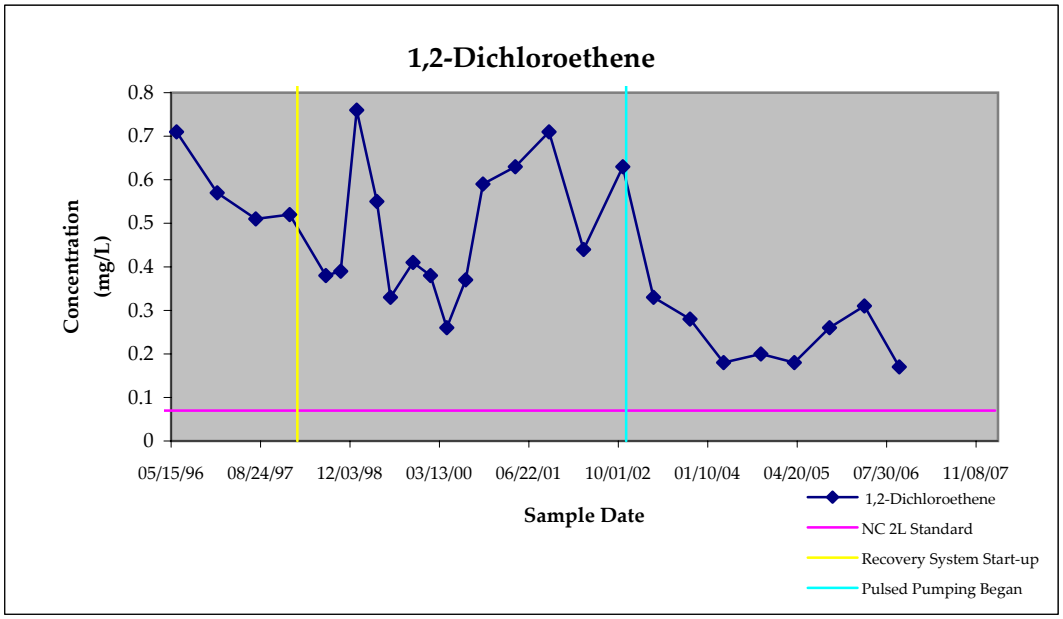
Time vs. Concentration Graphs
MW-02

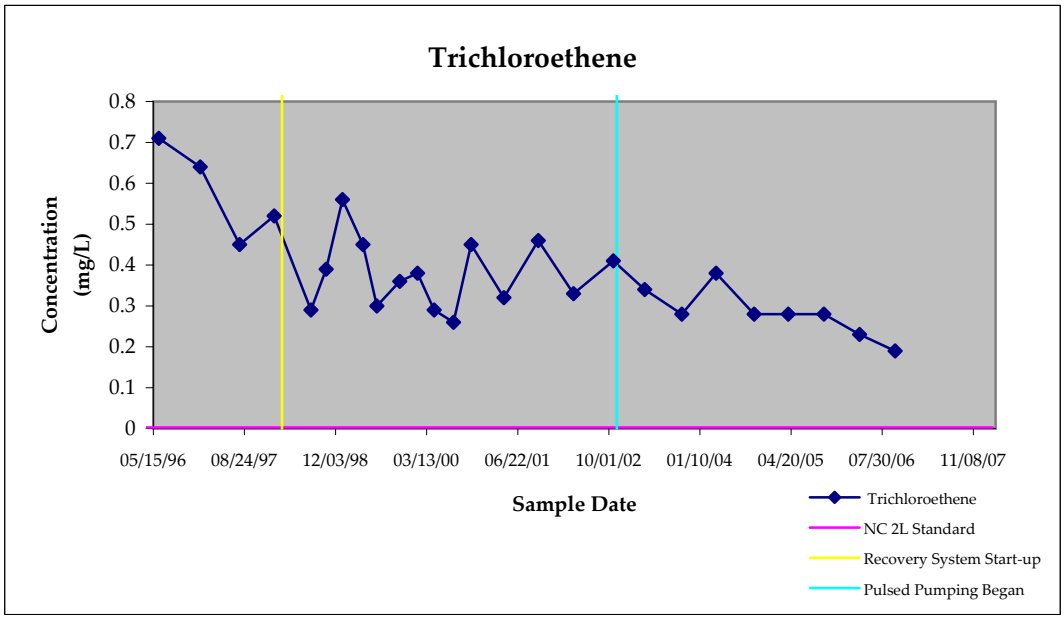




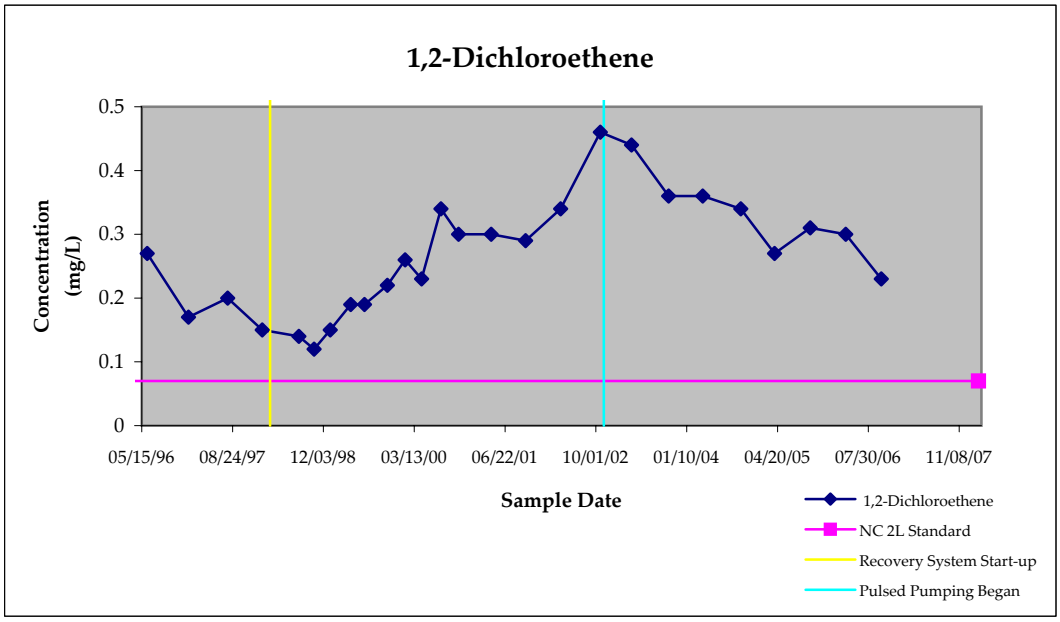
Open marker denotes nondetection graphed at one-half the detection limit.

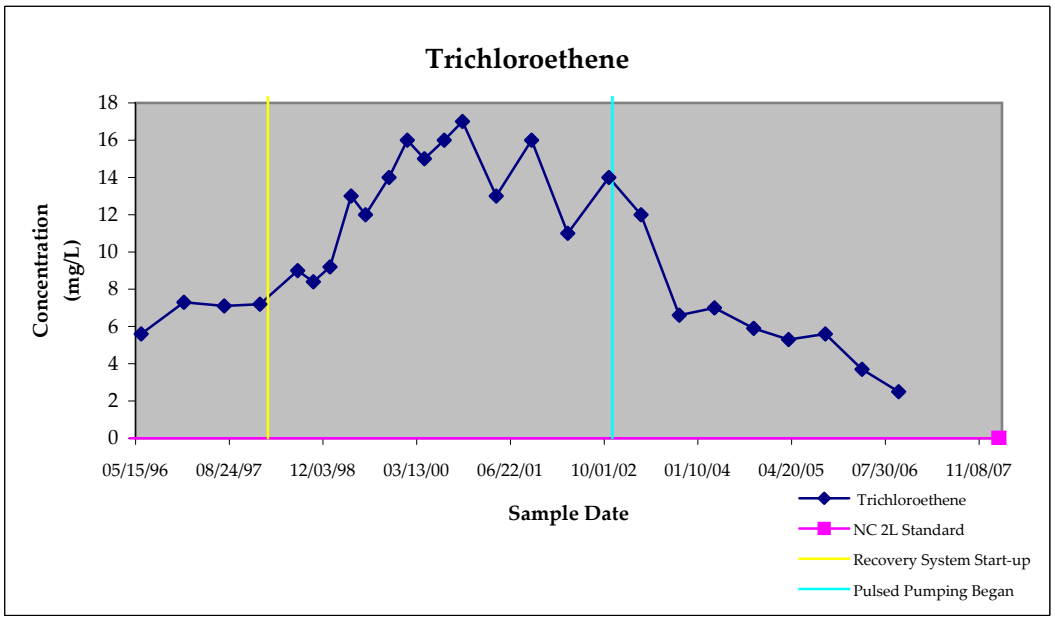
Time vs. Concentration Graphs
MW-04



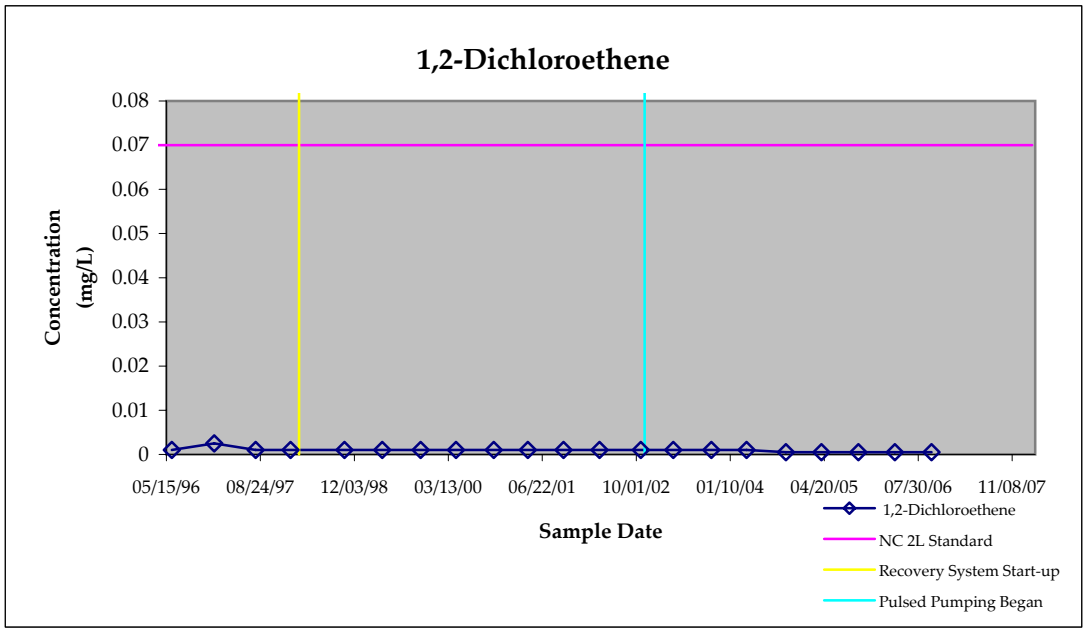


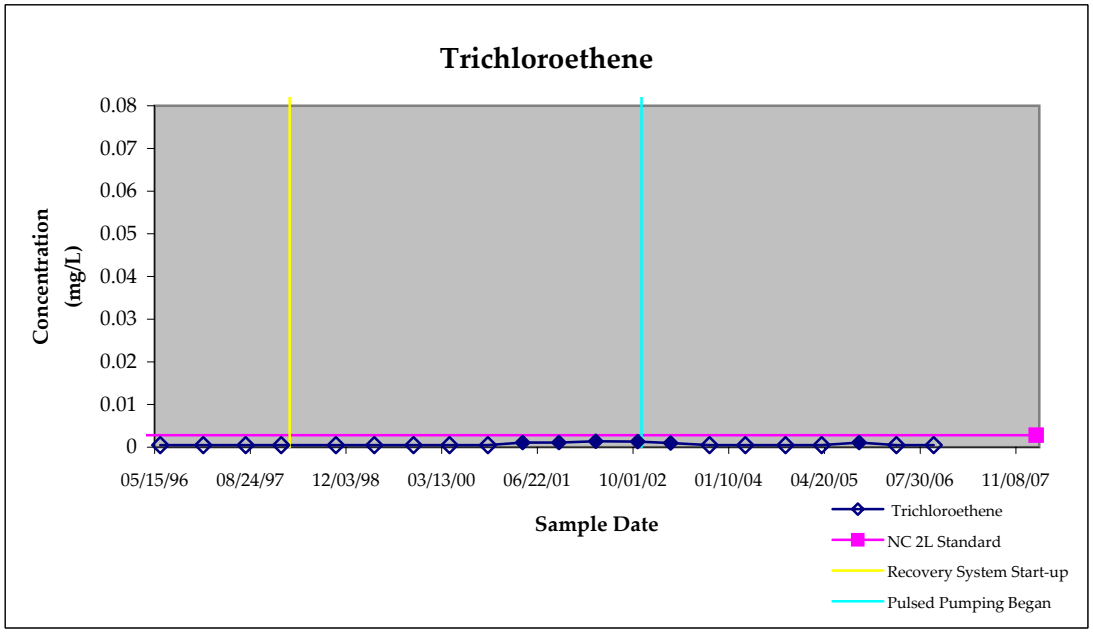
Time vs. Concentration Graphs
MW-05





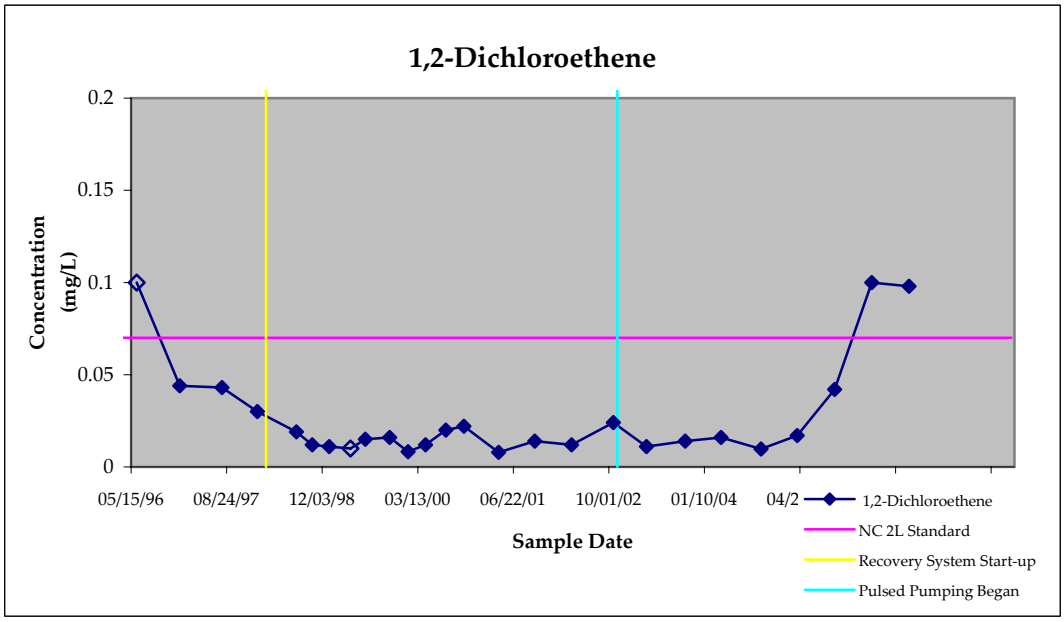
Time vs. Concentration Graphs
MW-08

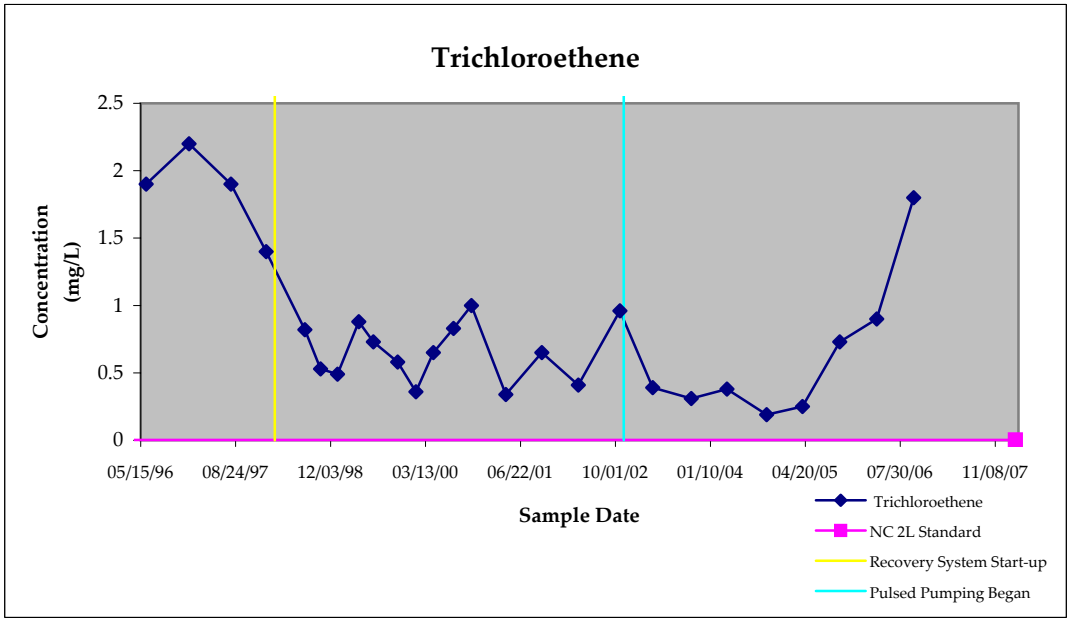




Open marker denotes nondetection graphed at one-half the detection limit.

Time vs. Concentration Graphs
MW-09





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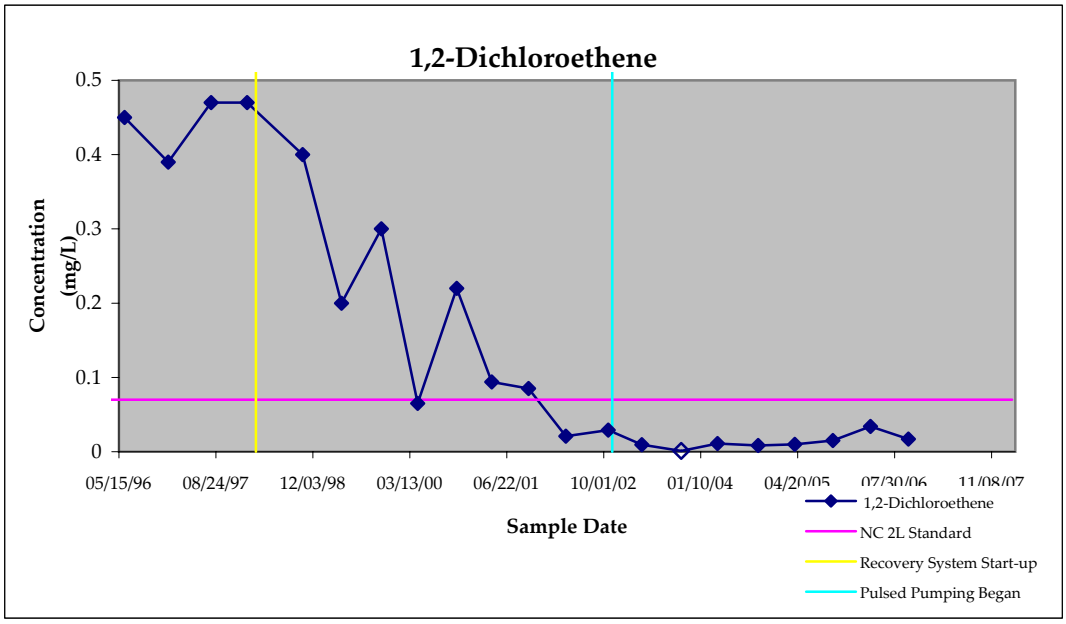
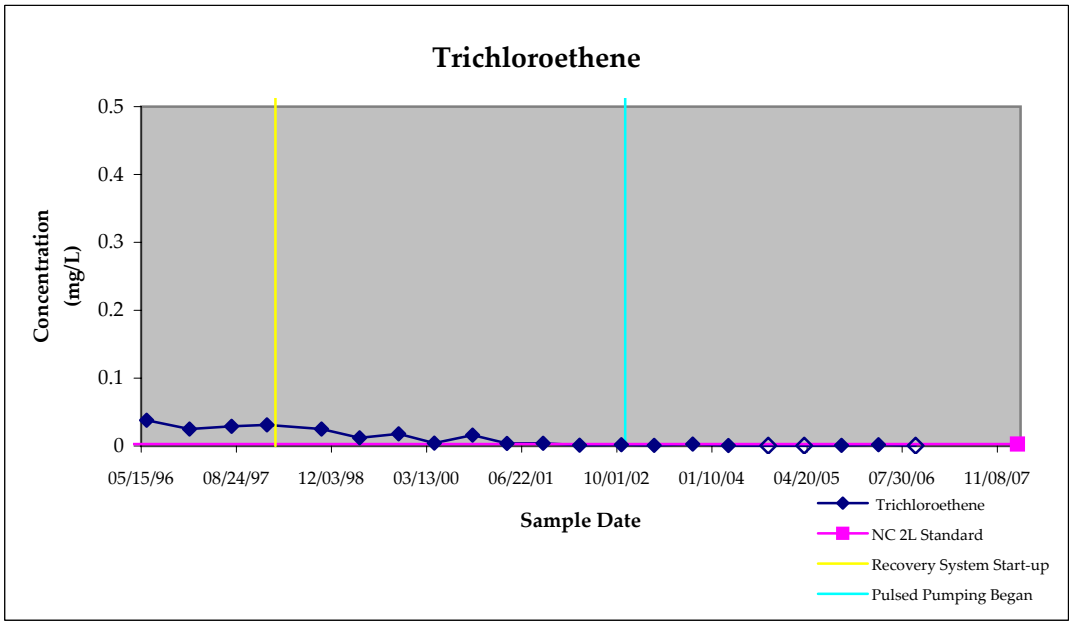
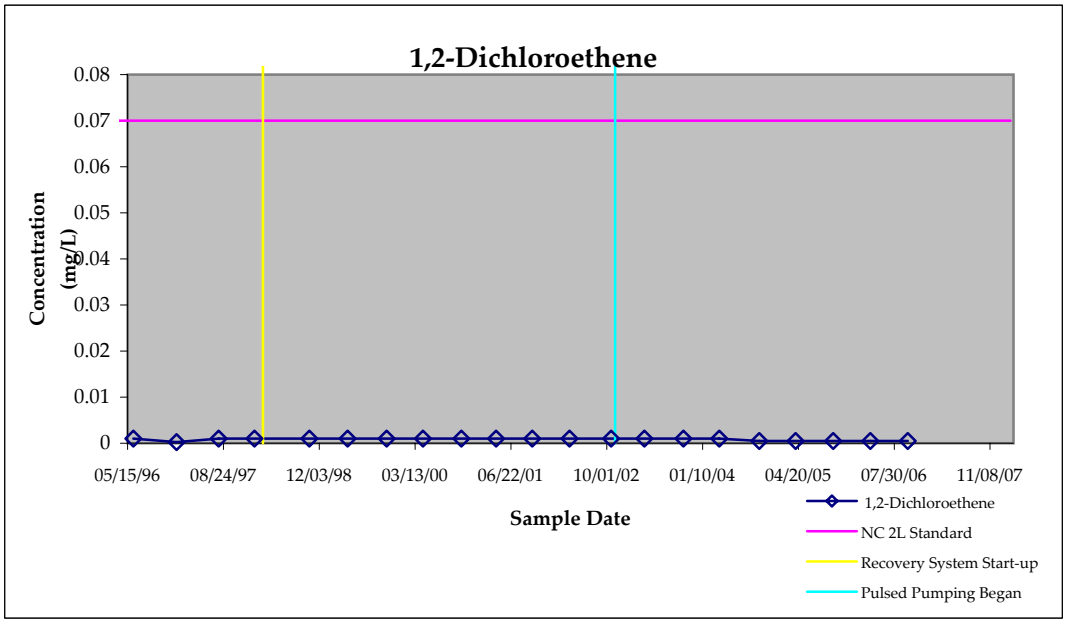
Time vs. Concentration Graphs
MW-10

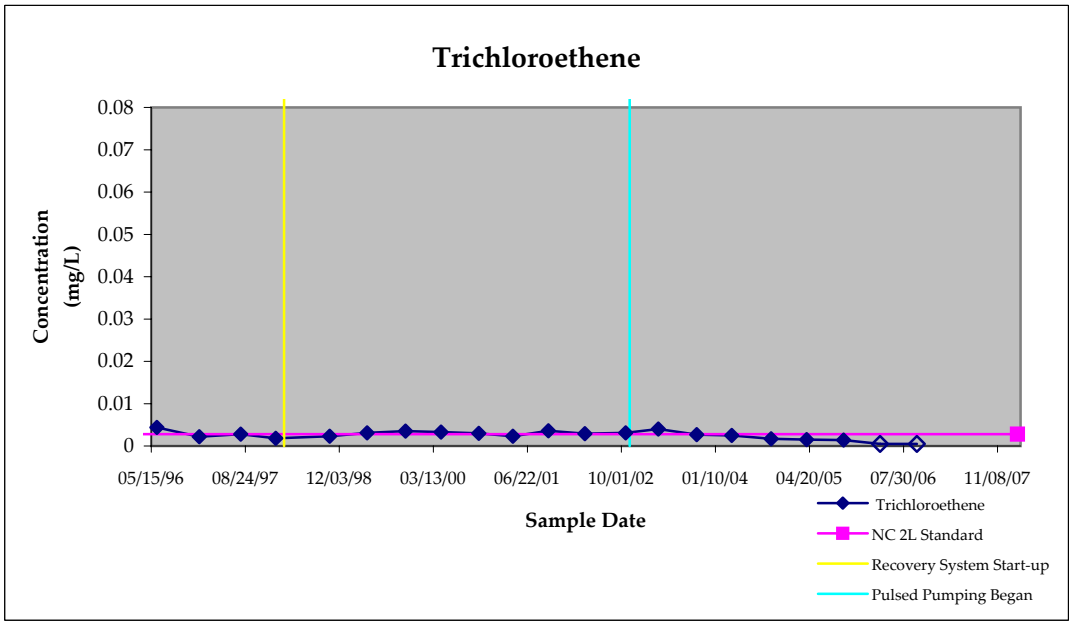




Open marker denotes nondetection graphed at one-half the detection limit.

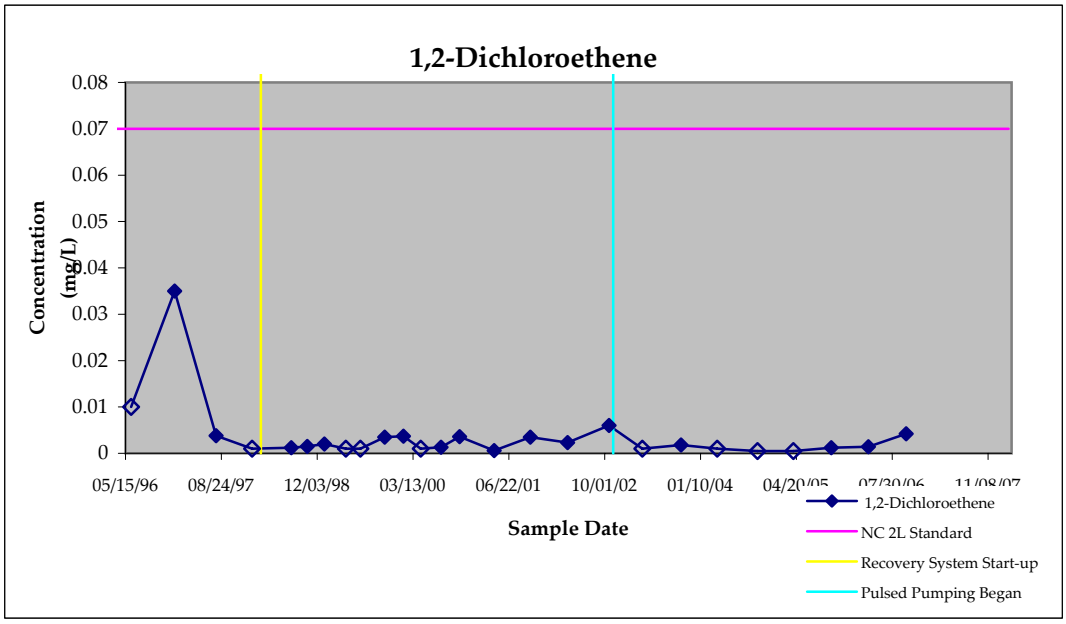
Time vs. Concentration Graphs
MW-11

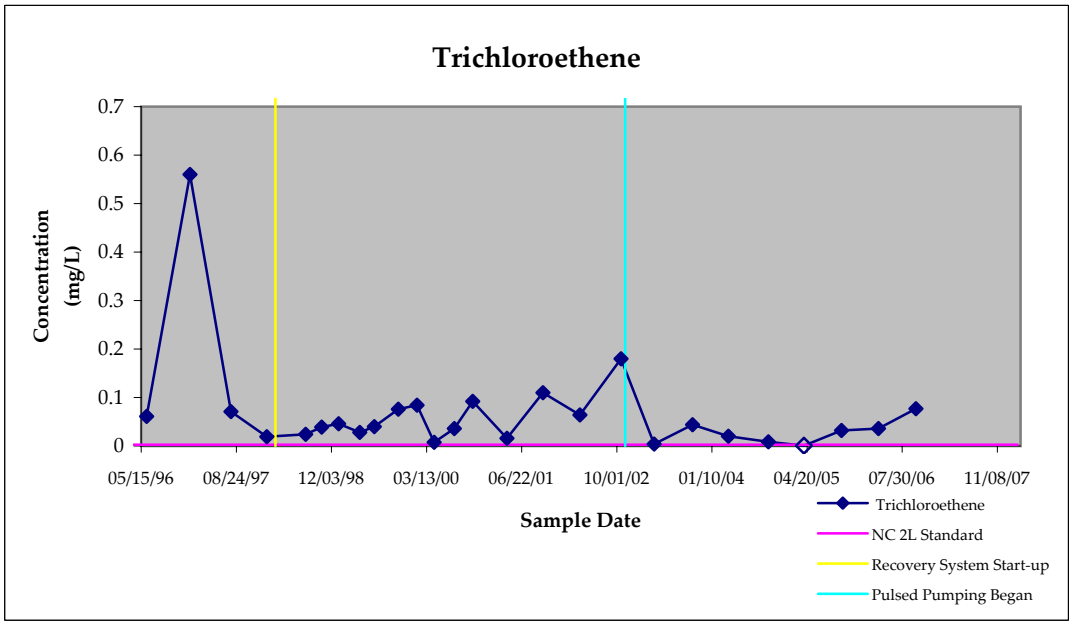




Open marker denotes nondetection graphed at one-half the detection limit.

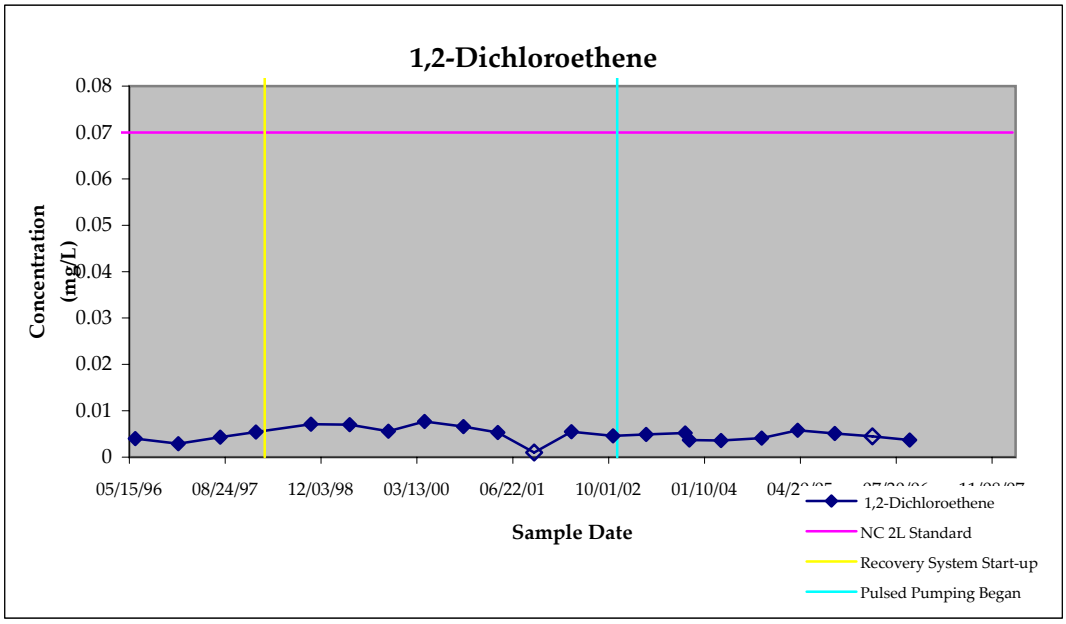
Time vs. Concentration Graphs
MW-19

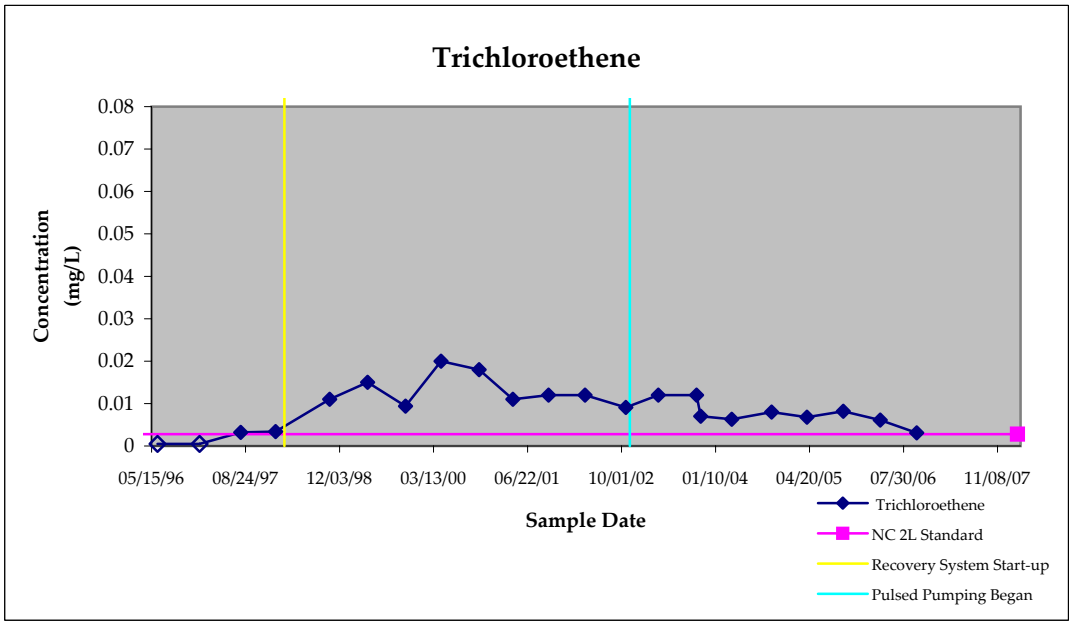




Open marker denotes nondetection graphed at one-half the detection limit.

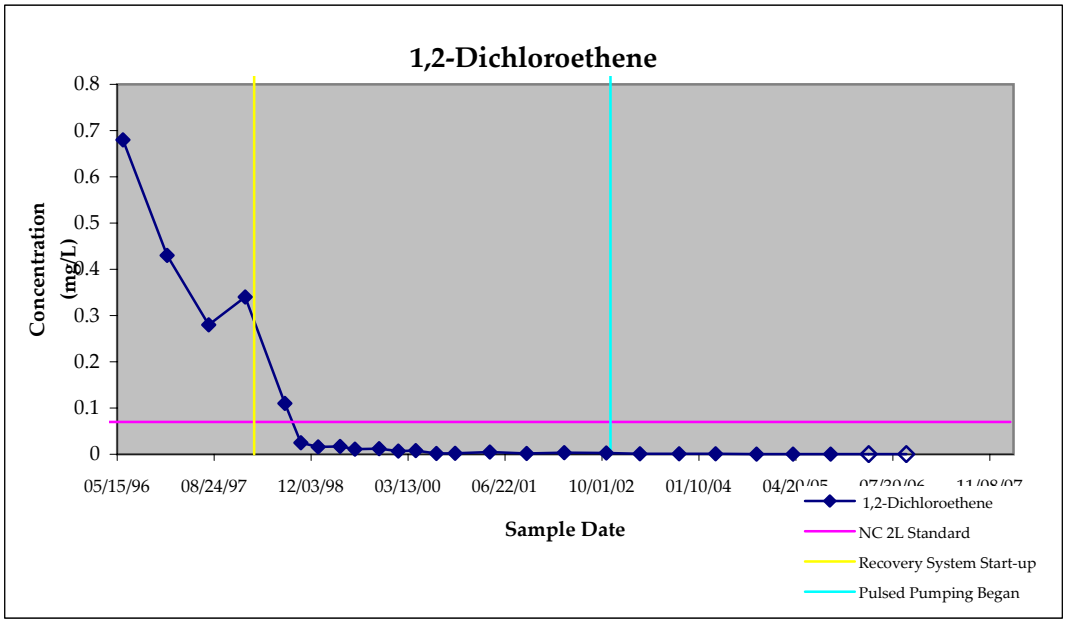
Time vs. Concentration Graphs
MW-20

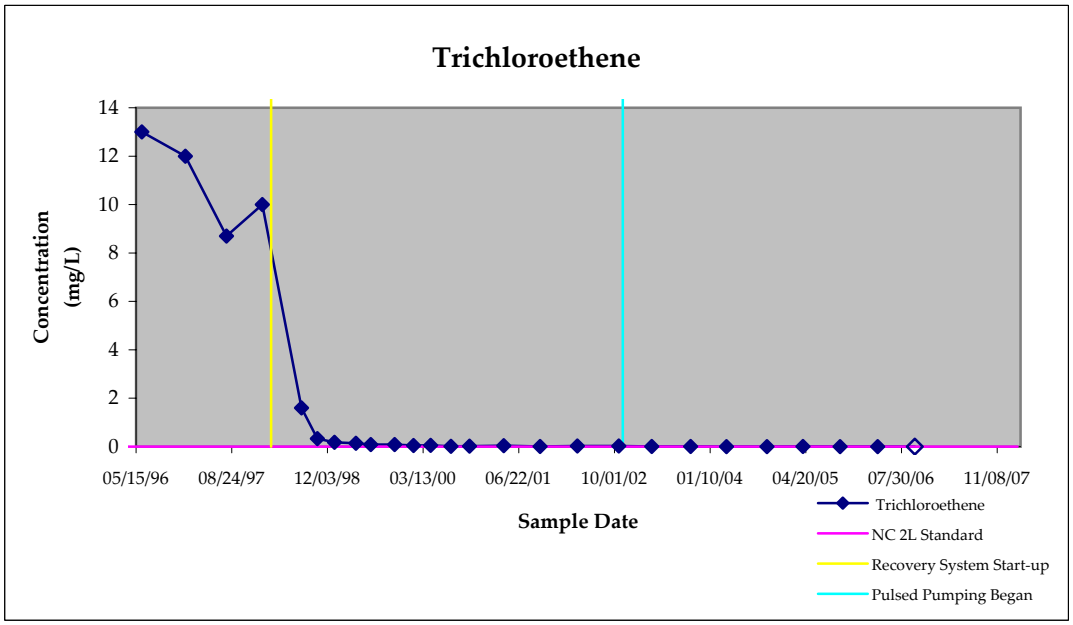




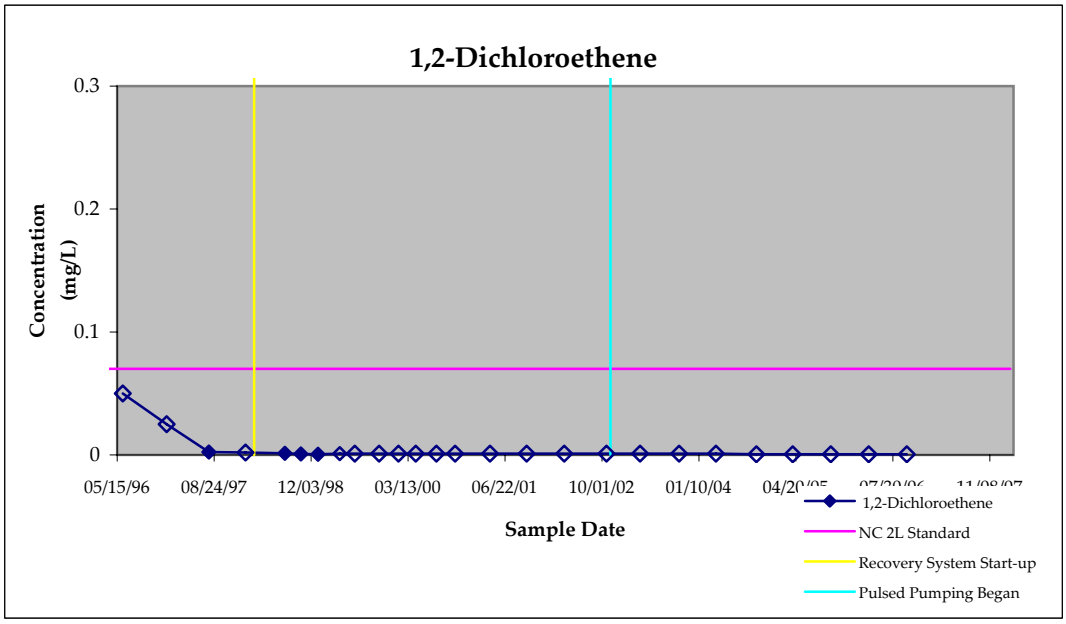
Open marker denotes nondetection graphed at one-half the detection limit.

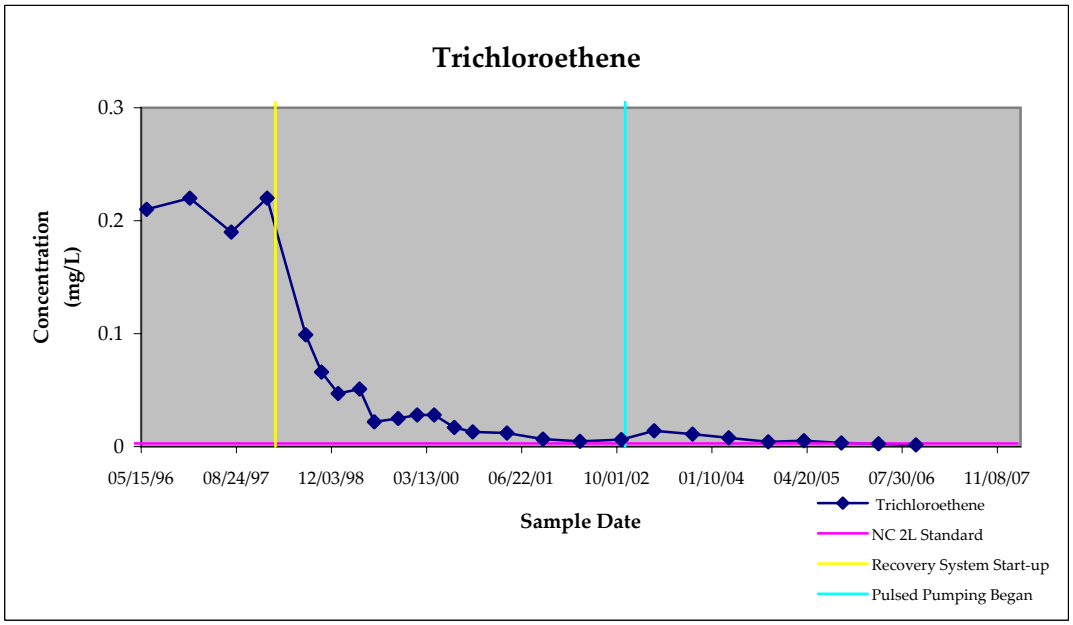
Time vs. Concentration Graphs
MW-23





Time vs. Concentration Graphs
MW-24





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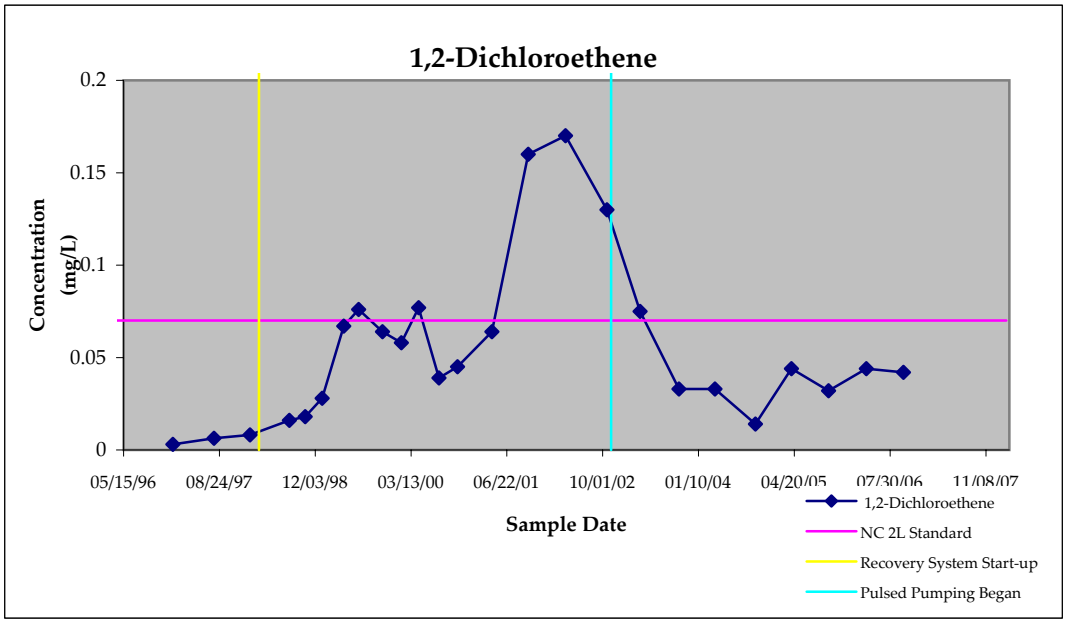
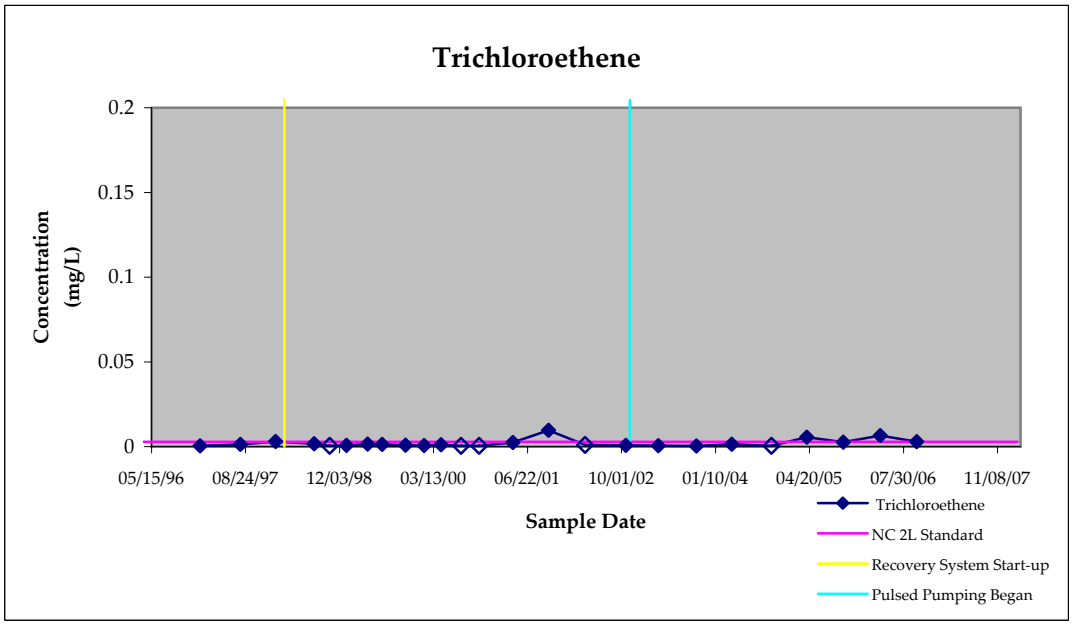
Time vs. Concentration Graphs
MW-26R





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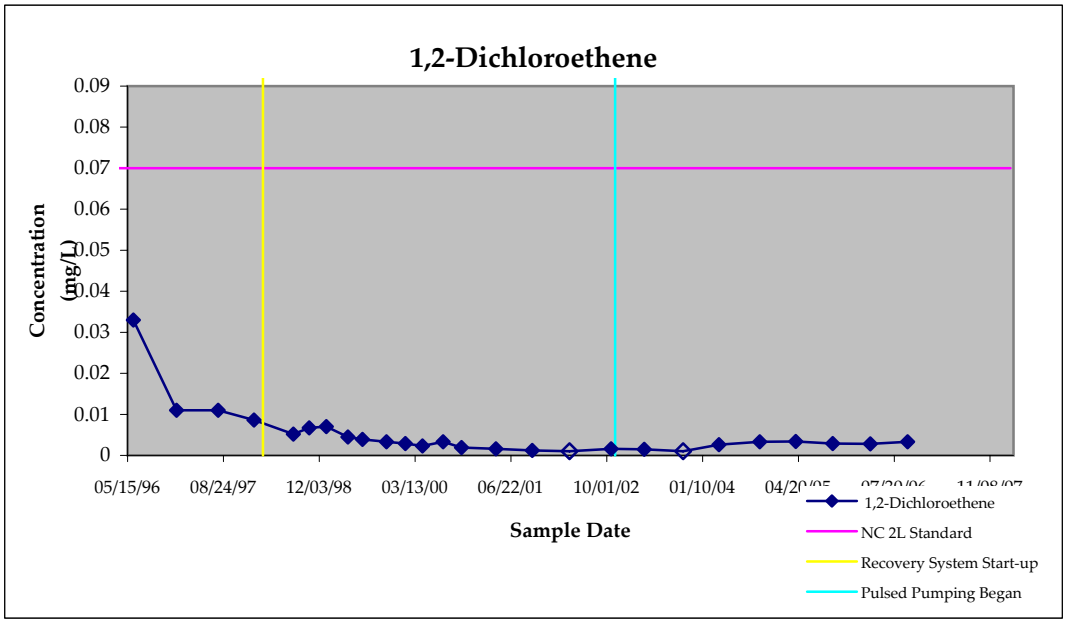
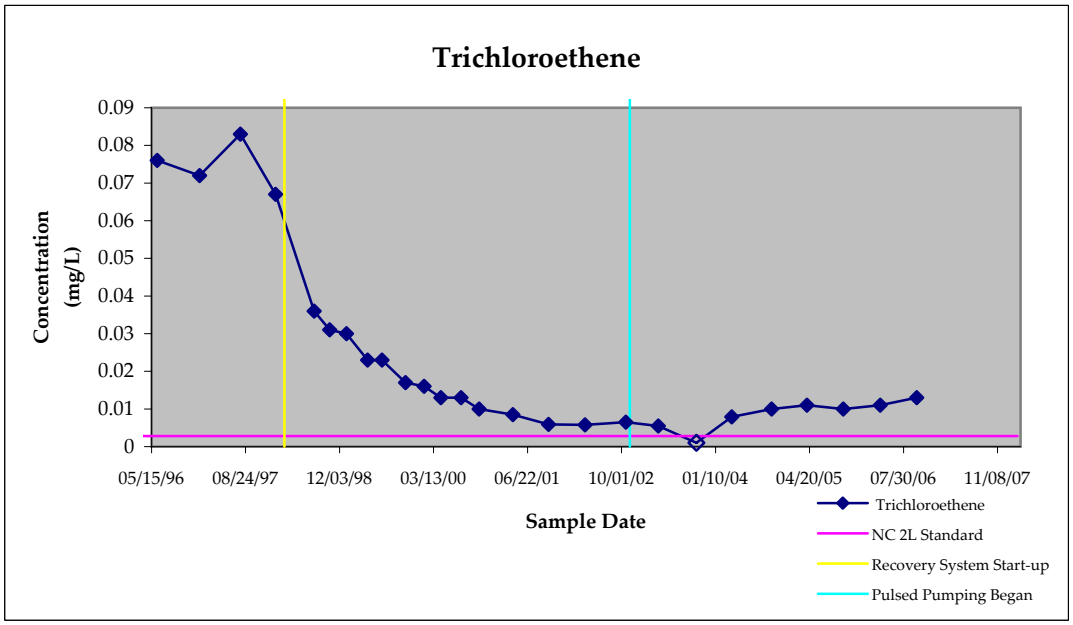
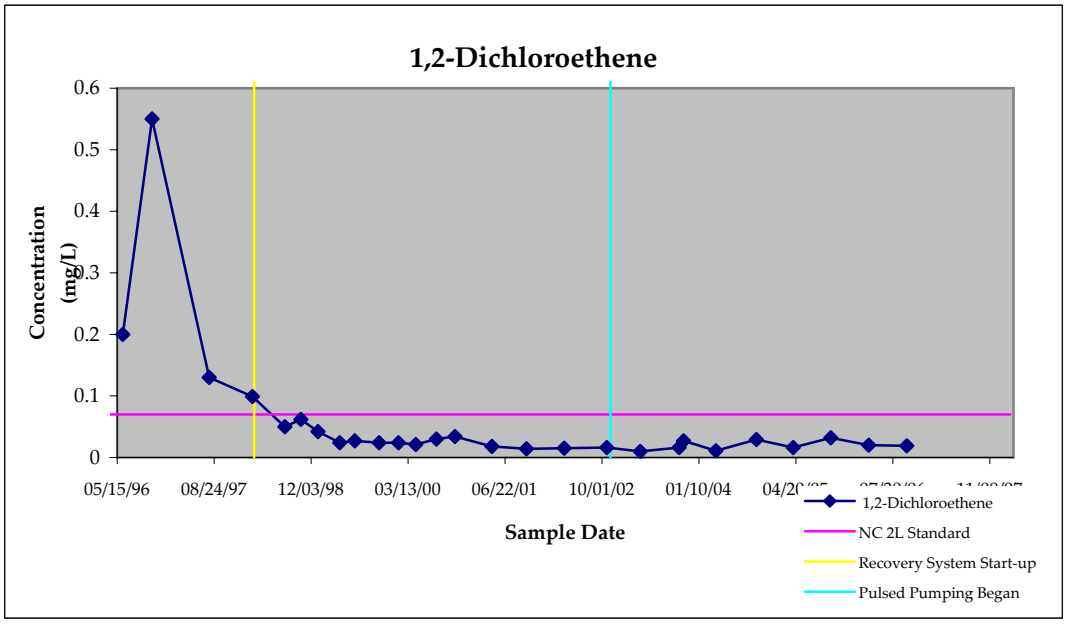
Time vs. Concentration Graphs
MW-28A

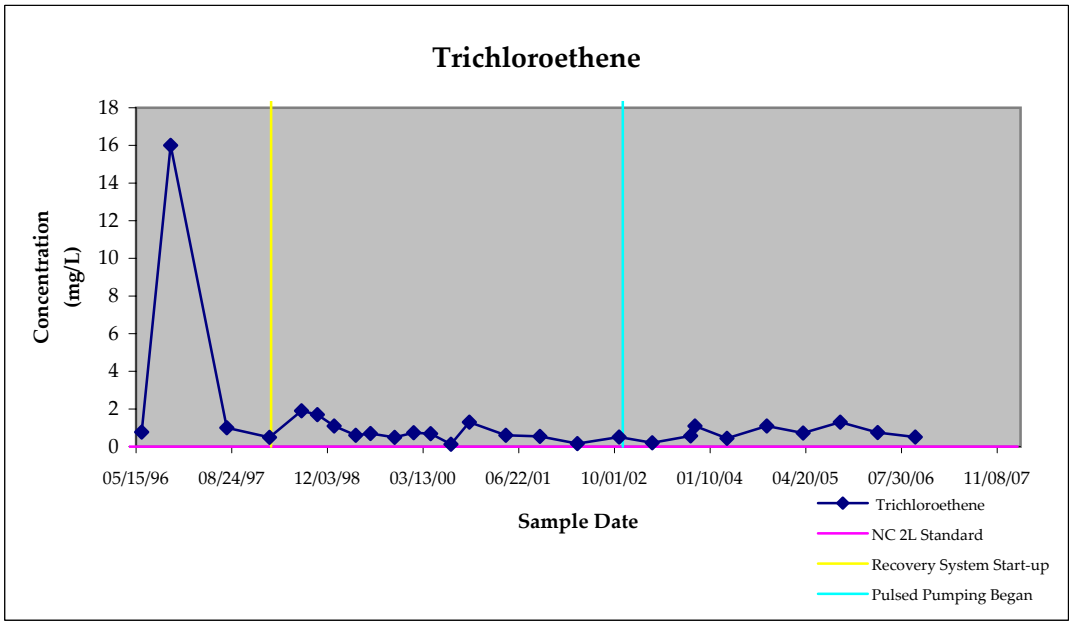




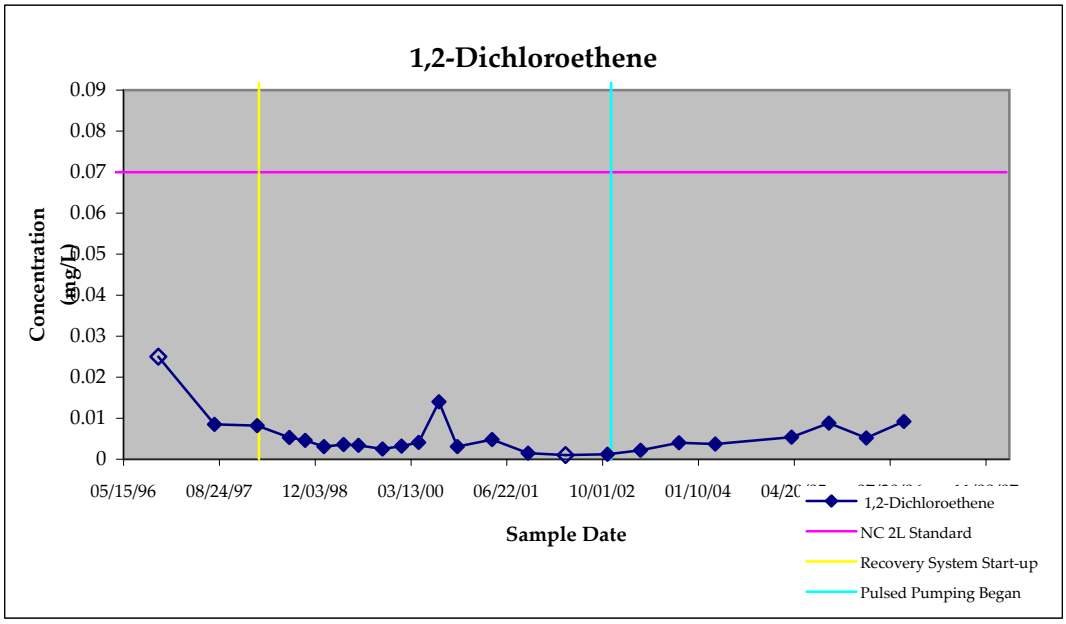
Open marker denotes nondetection graphed at one-half the detection limit.

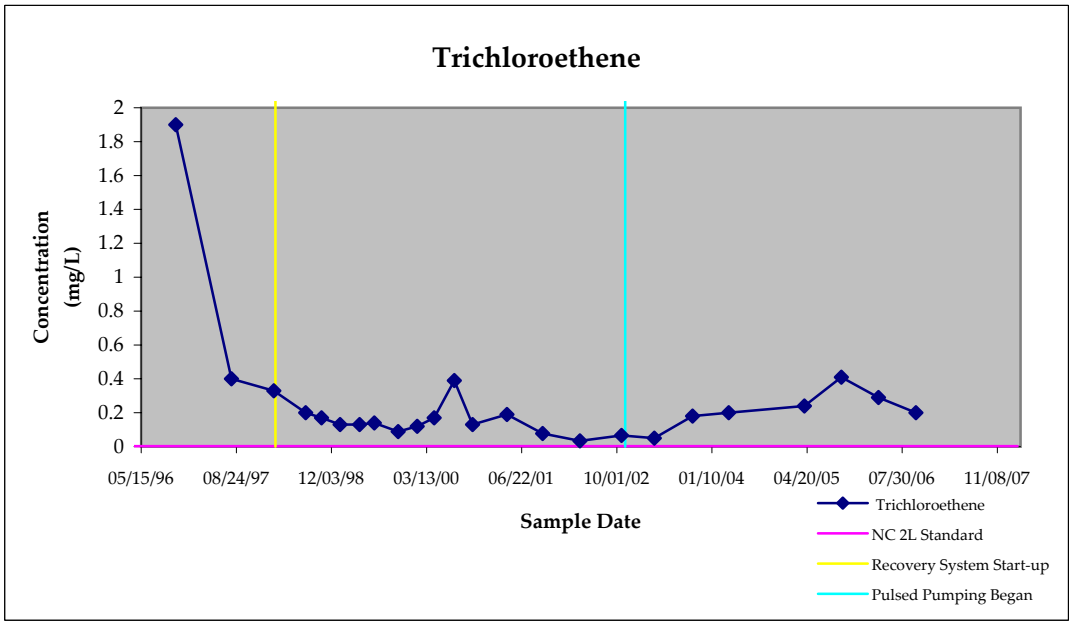
Time vs. Concentration Graphs
RW-1





Time vs. Concentration Graphs
RW-4





Open marker denotes nondetection graphed at one-half the detection limit.

/usr3/hydro/70144011h/WTG-00-70144.39-002.DGN
dmc 12-01-06

LEGEND

▲SW-1	SURFACE WATER SAMPLING LOCATION.
●MW-6 2056.13	MONITORING WELL WITH WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL.
Ø MW-25	ABANDONED MONITORING WELL
●RW-1 NM	RECOVERY WELL WITH WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL.
NM	NOT MEASURED
2050	WATER TABLE CONTOUR. WATER LEVEL WAS MEASURED OCTOBER 3, 2005. ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL. CONTOUR INTERVAL IS AS SHOWN. DASHED WHERE INFERRED.
	PROPERTY LINE - OTHER
900	TOPOGRAPHIC CONTOUR

NOTES: 1. REMEDIATION SYSTEM STARTUP MARCH 4, 1998.

2. LOCATIONS OF MW-5A AND MW-24 ARE APPROXIMATE.

NOTE:
DIGITIZED BASE MAP PROVIDED BY THE CITY OF ASHEVILLE, NORTH CAROLINA NOVEMBER, 1993. THE LOCATIONS OF THE STORM SEWER LINES WERE INCLUDED AS PART OF THE BASE MAP.

NORTH CAROLINA LICENSED GEOLOGIST JOHN D. MADDSON, JR. 249

0 100 200
SCALE: 1"=100'

PROJECT MGR:	M.B. PARKER	
PREPARED BY:	B.C. BARNES	
DRAWN BY:	A.H STEADMAN	
CHECKED BY:		
APPROVED BY:	MBP 12/15/06	
APPROVED BY:		
APPROVED BY:		
DATE:	DECEMBER 2006	
JOB NO:	70144.39	

RMT.

Patewood Plaza One, Suite 100
30 Patewood Drive
Greenville, South Carolina
864-281-0030

CONFIGURATION OF WATER TABLE
OCTOBER 2006
GIRMES SITE, FORMERLY SKF USA
ASHEVILLE, NORTH CAROLINA

SCALE		PLATE NO.
AS NOTED		1