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January 23, 2006

Reference No. 6124

Ms. Mary Tierney
EPA Project Coordinator
USEPA - Region V (HSRW-6J)
77 West Jackson Blvd.
Chicago, Illinois 60604

Dear Ms. Tierney:

Re: Operation and Maintenance Report, October 2005
Hi-Mill Manufacturing Site

Enclosed, please find one (1) copy of the report entitled "Operation and Maintenance Report, October 2005", for the Hi-Mill Manufacturing Co., in Highland Township, Michigan.

Should you have any questions regarding this information, please do not hesitate to contact us.

Yours truly

CONESTOGA-ROVERS & ASSOCIATES

John Hoffman

Jamie Puskas, P. Eng.
jp/ck/25

Encl.
c.c. Bob Beard
Daria Devantier

OPERATION AND MAINTENANCE REPORT
OCTOBER 2005

HI-MILL MANUFACTURING SITE
HIGHLAND TOWNSHIP
OAKLAND COUNTY, MICHIGAN

PRINTED ON
JAN 23 2006

OPERATION AND MAINTENANCE REPORT
OCTOBER 2005

HI-MILL MANUFACTURING SITE
HIGHLAND TOWNSHIP
OAKLAND COUNTY, MICHIGAN

Prepared by:
Conestoga-Rovers & Associates

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JANUARY 2006
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1.0 INTRODUCTION

The Hi-Mill Manufacturing Company (Hi-Mill) Superfund Site (Site) is located at 1704 Highland Road in Highland Township, Oakland, County, Michigan.

In March 1995, a Response Design Plan was prepared to comply with the requirements of Section VI.11 of the Consent Decree (United States of America vs. Hi-Mill Manufacturing Co.) dated June 1994. The Response Action involved installation of six shallow groundwater monitoring wells and two intermediate depth monitoring wells. The monitoring wells were installed in August and September 1995. The Response Design Plan included groundwater sampling at 19 monitoring wells; and water level measurements at 25 monitoring wells, five piezometers, and four surface water locations.

After 4 years of groundwater monitoring, Hi-Mill petitioned the United States Environmental Protection Agency (USEPA) to reduce the monitoring frequency in a letter dated May 29, 2000. USEPA approved the petition in a letter dated July 26, 2000. Modifications to the groundwater monitoring program include the monitoring of all wells on an annual basis (April), with the following exceptions:

1) wells SW-26A, SW-27, and SW-28 would be monitored semi-annually, in April and October; and
2) wells SW-1 and SW-24 would be monitored quarterly, in January, April, July, and October.

In a letter dated January 16, 2004 to the USEPA, CRA proposed modifications to the groundwater monitoring program. Through discussions between the EPA and Hi-Mill Manufacturing Co., it was decided that the monitoring program be reduced to annual monitoring at 11 selected wells. These wells were sampled in April 2005.

In a letter dated August 12, 2005 to CRA, the USEPA indicated that the approved monitoring plan as per the USEPA letter dated July 26, 2000 is to be resumed.

This Operation and Maintenance Report presents the results for the quarterly monitoring period ending in October 2005, which includes the monitoring of wells SW-1, SW-24, SW-26A, SW-27, and SW-28. The report is organized as follows:

Section 1.0 Introduction;

Section 2.0 Agency/Community Contacts;

Section 3.0	Field Activities;
Section 4.0	Groundwater Monitoring Results;
Section 5.0	Problems/Corrective Actions;
Section 6.0	Projected Future Work; and
Section 7.0	Waste Management.

2.0 AGENCY/COMMUNITY CONTACTS

A list of agency contacts made during the reporting period is presented below:

Name	*Agency*	*Purpose*
Mary Tierney	USEPA	notification of sampling

No community contacts were made during this reporting period.

3.0 FIELD ACTIVITIES

Annual monitoring activities including water level measurements and groundwater sampling, were conducted during the period from October 31 to November 1, 2005. Monitoring locations are presented on Figure 3.1. A description of the field activities is presented in the following sections.

3.1 WATER LEVEL MEASUREMENTS

Water level measurements were obtained on October 31, 2005 and the results are summarized in Table 3.1.

3.2 QUARTERLY GROUNDWATER SAMPLING

Groundwater sampling was conducted between October 31 and November 1, 2005. Prior to sample collection, a minimum of two well volumes were evacuated from the wells. Measurements for turbidity, temperature, pH, and conductivity were obtained after each well volume was evacuated. Purging was considered complete when two consecutive consistent readings of temperature, pH, and conductivity were obtained.

Purging was conducted using a bladder pump, where possible. At wells where the recharge or water depth was insufficient to use a bladder pump, a peristaltic pump was used for purging.

The number of well volumes evacuated from wells SW-24 and SW-26A were three and four, respectively. Only two well volumes were evacuated from SW-1 as this well started to go dry. The well was allowed to recharge and was then sampled.

Purge records are presented in Appendix A.

Groundwater samples were collected using a peristaltic pump as the water depth prevented the use of a bladder pump. This procedure was discussed and agreed upon with the USEPA.

A sample key for the October/November 2005 monitoring event is presented in Table 3.2.

4.0 GROUNDWATER MONITORING RESULTS

All groundwater samples collected were analyzed for TCL VOCs in accordance with the Quality Assurance Project Plan (QAPP). Analyses were conducted by Severn Trent Laboratories in North Canton, Ohio. A copy of the laboratory report is presented in Appendix B, and CRA's data validation report is presented in Appendix C.

A summary of the analytical results is presented in Table 4.1 and on Figure 4.1. The October/November 2005 monitoring data will be used to evaluate changes, if any, in the groundwater quality relative to baseline conditions. Analytical results of the groundwater samples collected in October/November 2005 are generally consistent with the respective historical analytical results. It is to be noted that due to the high detection limits for samples collected from SW-1 and SW-24, other parameters that were detected in previous sampling rounds may have been present, but were not detected during the current sampling round. These other parameters, if present, are observed by analyzing the samples at lower dilutions; however, the laboratory did not conduct these dilutions on groundwater samples from SW-1 and SW-24 due to a laboratory oversight.

5.0 PROBLEMS/CORRECTIVE ACTIONS

No water was encountered in wells SW-27 and SW-28. Therefore, these wells will be sampled during the next monitoring event in January 2006. Also, due to a laboratory oversight, the extra samples collected from wells SW-1 and SW-24 were not analyzed at lower dilutions. The laboratory has been notified of this error.

6.0 PROJECTED FUTURE WORK

Discussions with USEPA regarding modifications to the groundwater monitoring program are ongoing. Future monitoring will be performed in accordance with the agreed-upon revised monitoring program.

7.0 WASTE MANAGEMENT

Purge water from wells SW-1, SW-24, and SW-26 collected during the October/November 2005 sampling event was stored in a Department of Transportation closed-top, 55-gallon drum. The drum will remain closed at all times.

The current total volume of contaminated purge water in this drum is estimated to be 49 gallons. The drum will be used to store contaminated purge water during subsequent sampling events, until drum capacity has been reached. The current status of the drum is summarized in Table 7.1.

The drum is labeled as follows:

HAZARDOUS WASTE
PURGE WATER
Generator EPA ID: MID005341714
EPA Waste Code: D040
November 1, 2005

When the drum has been filled to capacity, the date on which this occurred will be marked on the drum. Removal and disposal of the drum will then be managed in accordance with State of Michigan regulations.

FIGURES

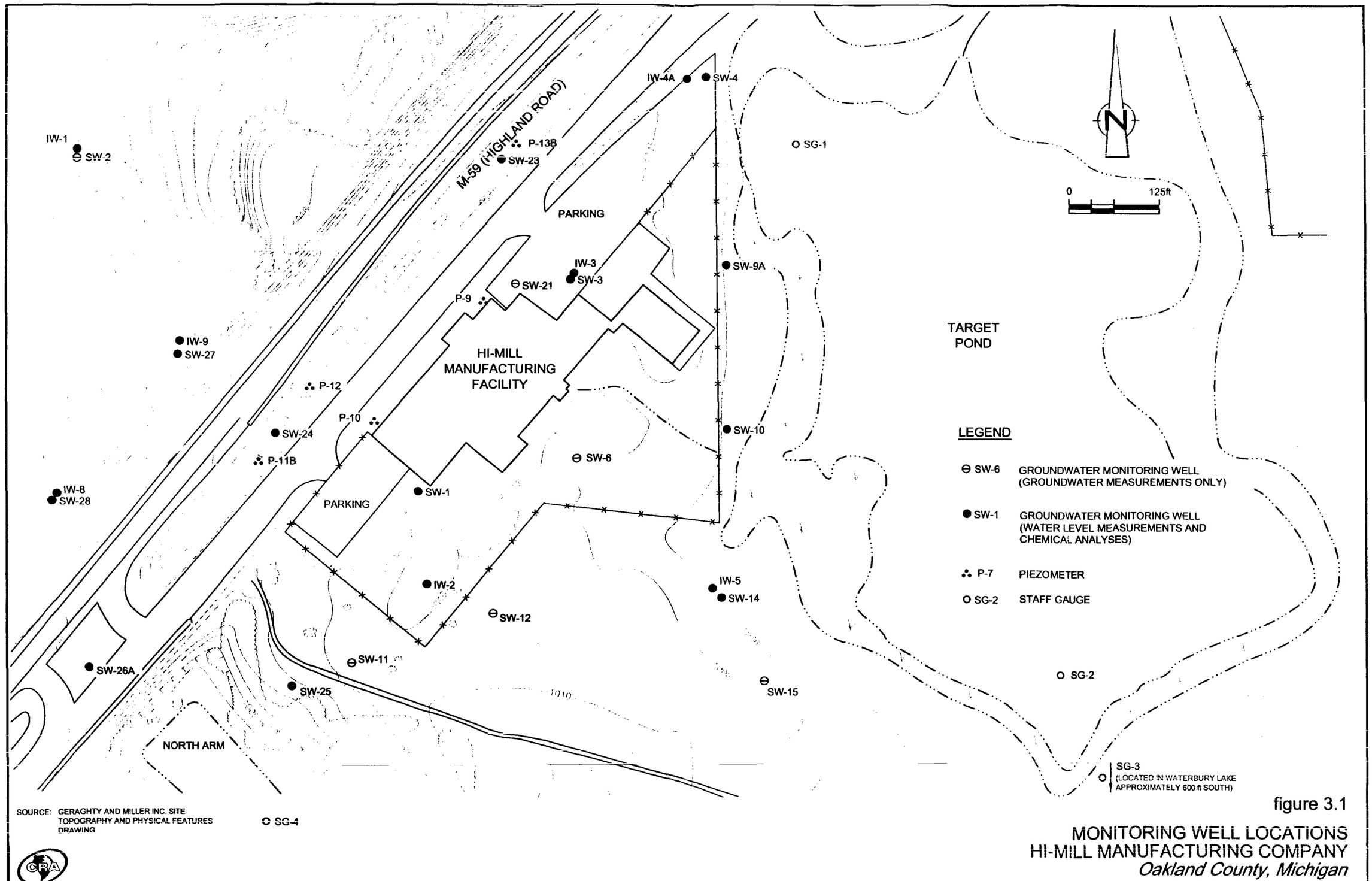
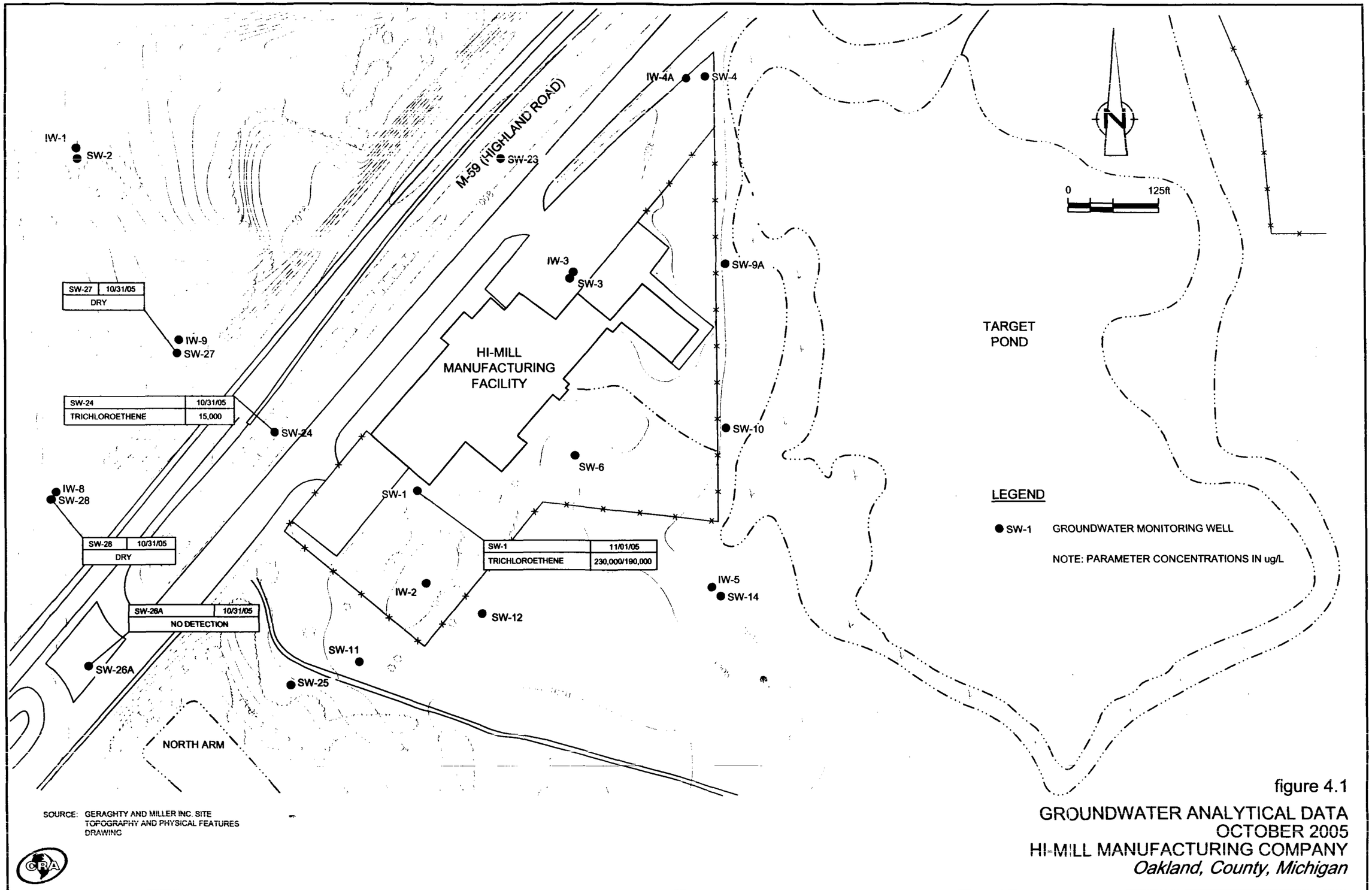


figure 3.1

MONITORING WELL LOCATIONS
HI-MILL MANUFACTURING COMPANY
Oakland County, Michigan

06124-00(051)GN-WA001 JAN 03/2006



SOURCE: GERAGHTY AND MILLER INC. SITE TOPOGRAPHY AND PHYSICAL FEATURES DRAWING

figure 4.1

GROUNDWATER ANALYTICAL DATA
OCTOBER 2005
HI-MILL MANUFACTURING COMPANY
Oakland, County, Michigan

06124-00(051)GN-WA002 JAN 03/2006

TABLES

TABLE 3.1

WATER LEVEL MEASUREMENTS
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well ID	*Reference Elevation (ft. AMSL)*	*10/2/1995*	*1/8/1996*	*4/9/1996*	*7/9/1996*	*10/21/1996*	*1/13/1997*	*4/16/1997*	*7/15/1997*	*10/7/1997*	*1/19/1998*	*4/14/1998*	*7/14/1998*
SW1	1,013.17	1,001.78	1,002.24	1,003.47	1,003.55	1,001.70	1,003.07	1,004.29	1,002.97	1,002.72	1,003.35	1,004.53	1,002.64
SW2	1,018.04	998.60	997.76	997.55	999.75	998.32	997.52	998.09	999.51	998.36	997.44	998.23	998.98
SW3	1,012.43	1,006.50	1,005.66	frozen	1,006.82	1,006.91	1,006.23	1,007.69	1,006.49	1,006.88	1,006.80	1,007.73	1,006.64
SW4	1,010.18	1,004.99	1,004.98	1,005.62	1,005.17	1,005.43	1,005.45	1,005.97	1,004.74	1,005.38	1,005.46	1,005.91	1,004.74
SW6	1,011.63	1,005.04	1,007.26	1,008.09	1,006.03	1,007.77	1,007.92	1,008.08	1,005.45	1,007.21	1,003.41	1,008.09	1,005.98
SW9	1,010.10	1,004.85	1,004.81	1,005.02	1,004.59	1,004.46	1,004.91	1,005.00	1,001.12	1,004.66	1,004.88	1,005.01	1,003.88
SW10	1,010.50	1,004.55	1,005.12	1,005.75	1,004.94	1,004.87	1,005.35	1,005.75	1,004.59	1,005.01	1,005.65	1,005.67	1,004.34
SW11	1,013.04	1,000.26	1,000.98	1,001.90	1,001.95	999.03	1,001.66	1,002.86	1,001.24	1,000.66	1,001.71	1,002.91	1,000.23
SW12	1,013.14	1,004.92	1,008.46	1,009.45	1,006.90	1,000.30	1,009.25	1,009.49	1,005.24	1,007.04	1,009.11	1,009.63	1,004.10
SW14	1,009.76	1,002.46	1,004.05	1,004.35	1,003.66	1,000.56	1,004.33	1,004.61	1,003.00	1,003.19	1,004.26	1,004.65	1,001.90
SW15	1,010.93	NA	1,005.91	1,006.83	1,004.64	1,001.77	1,006.59	1,006.85	NA	1,004.27	1,006.65	1,007.36	1,002.31
SW21	1,012.93	1,006.40	1,005.43	frozen	1,006.73	1,006.89	1,006.13	1,007.86	1,006.62	1,007.05	1,006.53	1,007.53	1,007.12
SW23	1,006.00	997.49	997.37	997.68	998.28	997.22	997.60	997.57	997.96	997.50	997.51	998.65	997.45
SW24	1,004.76	1,000.58	1,000.71	1,001.50	1,002.24	999.91	1,001.42	1,002.67	1,001.85	1,000.66	1,000.74	1,001.34	1,001.35
SW25	1,007.01	999.44	999.84	998.60	1,000.97	998.72	1,000.24	1,001.56	1,000.30	999.68	1,000.28	1,001.62	999.40
SW26A	1,010.04	998.99	999.14	999.86	999.98	998.72	999.52	1,000.35	999.53	999.14	999.80	1,000.53	999.13
SW27	1,014.31	1,000.67	1,000.62	1,001.33	1,002.52	999.90	1,000.79	1,002.71	1,001.86	1,000.51	1,000.91	1,002.75	1,001.00
SW28	1,011.41	999.50	999.74	1,000.55	1,001.33	998.73	999.95	1,002.07	1,000.60	999.27	DRY (997.46)	1,002.23	DRY (999.60)
IW1	1,017.02	995.86	995.90	996.04	996.66	995.68	996.00	996.87	996.31	995.87	996.07	996.91	995.86
IW2	1,014.56	997.30	997.34	997.61	998.18	997.12	997.52	998.41	997.84	997.39	997.61	998.54	997.39
IW3	1,011.90	997.72	998.73	997.99	998.56	997.51	997.90	998.40	998.22	997.77	997.98	998.91	997.73
IW4A	1,010.06	997.92	998.01	998.24	998.87	997.81	998.15	999.08	998.48	998.01	998.21	999.17	997.98
IW5	1,009.39	998.28	998.30	998.57	999.06	998.02	998.48	999.38	998.75	998.35	998.60	999.44	998.28
IW8	1,012.19	995.10	995.09	995.31	995.93	994.88	995.23	996.14	995.58	995.11	993.31	996.26	995.10
IW9	1,015.38	996.62	996.66	996.88	997.50	996.46	996.77	997.75	997.16	996.70	996.90	997.95	996.59
P9	1,011.37	1,008.43	1,007.59	1,009.13	1,008.69	1,008.83	1,008.41	1,009.79	1,008.70	1,009.09	1,008.67	1,009.57	1,009.06
P10	1,011.02	DRY (1,005.52)	DRY (1,005.52)	1,006.63	1,006.22	1,005.77	1,007.41	1,007.35	1,005.94	1,006.30	1,006.45	1,007.50	1,005.89
P11B	1,005.49	1,000.90	1,001.27	1,002.49	1,002.52	1,001.02	1,001.66	1,003.01	1,002.00	1,001.85	1,001.96	1,002.35	1,001.28
P12	1,006.10	DRY (1002.60)	1,002.36	1,002.76	DRY (1,002.60)	DRY (1,002.60)	1,002.90	1,003.18	1,002.58	DRY (1,002.60)	1,003.49	1,003.29	DRY (1,002.57)
P13B	1,006.92	997.53	997.49	997.70	998.34	997.25	997.62	997.56	997.93	997.50	997.66	998.65	997.42
Staff Gauge ID (c)													
SG1	1005.47 (1.55)(b)	1,005.17	FROZEN	1,004.92	1,005.52	1,005.07	FROZEN	1,005.72	1,005.62	1,005.42	1,005.72	1,005.71	1,005.02
SG2	1005.47 (1.35)(b)	NA	FROZEN	NA	NA	1,005.37	FROZEN	1,006.32	1,006.01	NA	1,006.32	NA	NA
SG3	999.64 (1.20)(b)	NA	FROZEN	1,000.13	NA	999.60	FROZEN	1,000.72	NA	1,000.12	1,000.32	1,000.68	1,000.19
SG4	999.25 (1.17)(b)	NA	FROZEN	1,000.18	1,000.28	999.08	FROZEN	1,000.73	999.85	999.47	999.99	1,000.84	999.50

Notes:

(a) Measured on 4/29/2005.
(b) Reference elevation is equivalent to the indicated reference gauge reading (in parentheses).
(c) Pond water elevation = (staff gauge reading) - (reference gauge reading) + reference elevation.
NA - Elevation not available.
NM - Not measured.

TABLE 3.1

WATER LEVEL MEASUREMENTS
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well ID	*Reference Elevation (ft. AMSL)*	*10/21/1998*	*3/15/1999*	*5/5/1999*	*7/26/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*7/20/2000*	*10/31/2000*	*1/11/2001*	*4/2/2001*	*7/9/2001*	*10/3/2001*
SW1	1,013.17	1,000.03	1,002.61	1,002.35	1,002.15	999.76	1,000.55	1,002.87	1,001.92	1,001.72	1,003.26	1,003.51	1,002.77	1,001.39
SW2	1,018.04	997.38	996.25	996.14	996.37	995.85	995.45	995.31	NM	NM	NM	996.56	NM	NM
SW3	1,012.43	1,006.43	1,007.25	1,007.30	1,007.11	1,006.67	1,005.85	1,007.40	NM	NM	NM	1,007.62	NM	NM
SW4	1,010.18	1,004.70	1,006.00	1,005.53	1,005.34	1,005.00	1,004.90	1,006.12	NM	NM	NM	1,006.03	NM	NM
SW6	1,011.63	1,004.44	1,008.01	1,007.35	1,006.81	1,005.90	1,007.37	1,008.15	NM	NM	NM	1,008.10	NM	NM
SW9	1,010.10	1,002.67	1,004.76	1,004.78	1,004.56	1,004.21	1,004.49	1,004.94	NM	NM	NM	1,005.00	NM	NM
SW10	1,010.50	1,002.84	1,005.36	1,005.16	1,004.97	1,004.52	1,005.06	1,005.60	NM	NM	NM	1,005.56	NM	NM
SW11	1,013.04	997.46	1,000.87	1,001.20	1,000.03	997.65	999.06	1,001.00	NM	NM	NM	1,001.91	NM	NM
SW12	1,013.14	DRY (1,000.30)	1,009.18	1,008.79	1,006.92	DRY (1,000.34)	1,007.64	1,009.42	NM	NM	NM	1,009.59	NM	NM
SW14	1,009.76	998.03	1,003.39	1,003.86	1,002.64	999.07	1,001.32	1,003.36	NM	NM	NM	1,004.29	NM	NM
SW15	1,010.93	999.11	1,006.04	1,006.38	1,003.80	999.78	1,000.95	1,006.92	NM	NM	NM	1,007.24	NM	NM
SW21	1,012.93	1,007.09	NA	NA	NA	NA	NA	1,007.30	NM	NM	NM	NM	NM	NM
SW23	1,006.00	996.64	996.88	997.27	996.64	996.04	996.07	996.24	NM	NM	NM	997.67	NM	NM
SW24	1,004.76	998.87	NA	1,001.35	1,000.69	998.26	998.82	999.30	1,000.91	1,001.83	NM	1,001.38	1,001.12	999.70
SW25	1,007.01	997.31	999.43	999.92	999.12	997.16	998.09	999.42	NM	NM	NM	1,000.52	NM	NM
SW26A	1,010.04	998.28	999.42	999.94	999.32	998.25	998.48	999.33	NM	999.38	NM	999.82	NM	998.88
SW27	1,014.31	DRY (999.21)	999.57	1,000.20	999.95	DRY (999.28)	DRY (999.28)	DRY (999.31)	NM	999.71	NM	1,001.45	NM	Dry (999.36)
SW28	1,011.41	DRY (997.68)	998.50	999.68	998.83	DRY (997.57)	DRY (997.57)	997.73	NM	998.90	998.99	1,000.95	NM	998.08
IW1	1,017.02	995.17	995.38	995.72	995.11	994.65	994.63	994.84	NM	NM	NM	996.05	NM	NM
IW2	1,014.56	996.56	996.79	997.21	996.50	995.90	995.90	996.15	NM	NM	NM	997.47	NM	NM
IW3	1,011.90	996.99	997.08	997.54	996.84	996.30	996.30	NM	NM	NM	NM	997.94	NM	NM
IW4A	1,010.06	997.19	997.34	997.74	997.07	996.54	996.53	996.82	NM	NM	NM	998.14	NM	NM
IW5	1,009.39	997.45	997.61	998.05	997.33	996.76	996.73	997.07	NM	NM	NM	998.37	NM	NM
IW8	1,012.19	994.37	994.58	995.01	994.31	993.81	993.85	994.09	NM	NM	NM	995.26	NM	NM
IW9	1,015.38	995.96	996.08	996.48	995.72	995.24	995.24	995.34	NM	NM	NM	996.78	NM	NM
P9	1,011.37	1,009.11	1,009.86	DRY	1,009.38	1,008.72	1,007.96	1,009.49	NM	NM	NM	1,009.74	NM	NM
P10	1,011.02	DRY (1,005.34)	1,007.53	1,006.57	1,006.59	1,005.34	1,005.54	1,007.63	NM	NM	NM	1,007.18	NM	NM
P11B	1,005.49	DRY (1,000.24)	1001.50(a)	1,002.04	1,001.23	DRY (1,000.23)	DRY (1,000.23)	1,001.49	NM	NM	NM	NM	NM	NM
P12	1,006.10	DRY (1,002.42)	1,003.22	1,002.64	1,002.70	1,002.70	DRY (1,002.70)	1,003.19	NM	NM	NM	NM	NM	NM
P13B	1,006.92	996.83	Dry (a)	997.17	996.89	996.85	996.85	996.87	NM	NM	NM	NM	NM	NM
Staff Gauge ID (c)														
SG1	1005.47 (1.55)(b)	1,004.40	1,003.88	1,005.88	1,005.45	1,004.92	NA	1,005.71	NM	NM	NM	1,005.83	NM	NM
SG2	1005.47 (1.35)(b)	1,004.60	1,003.40	1,006.15	NA	1,005.50	NA	1,006.32	NM	NM	NM	1,006.82	NM	NM
SG3	999.64 (1.20)(b)	999.21	998.65	999.34	NA	DRY (998.64)	NA	999.00	NM	NM	NM	999.43	NM	NM
SG4	999.25 (1.17)(b)	998.60	998.40	999.36	998.81	998.14	NA	998.62	NM	NM	NM	999.66	NM	NM

4/22
5/2

Notes:

(a) Measured on 3/17/99.
(b) Reference elevation is equivalent to the indicated reference gauge reading (in parentheses).
(c) Pond water elevation = (staff gauge reading) - (reference gauge reading) + reference elevation.
NA - Elevation not available.
NM - Not measured.

TABLE 3.1

WATER LEVEL MEASUREMENTS
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well ID	*Reference Elevation (ft. AMSL)*	*1/18/2002*	*4/17/2002*	*7/15/2002*	*10/21/2002*	*1/10/2003*	*4/14/2003*	*7/11/2003*	*10/31/2003*	*4/26/2004*	*4/29/2005*	*10/31/2005*
SW1	1,013.17	1,003.28	1,003.91	1,001.57	998.67	999.68	1,002.16	1,001.47	998.94	1,002.23	1,003.71	999.03
SW2	1,018.04	NM	997.53	NM	NM	NM	995.54	NM	NM	995.04	996.79	996.33
SW3	1,012.43	NM	1,007.34	NM	NM	NM	1,006.96	NM	NM	1,006.75	1,007.13	1,005.34
SW4	1,010.18	NM	1,005.95	NM	NM	NM	1,005.75	NM	NM	1,004.82	1,005.87	1,004.00
SW6	1,011.63	NM	1,007.99	NM	NM	NM	1,007.83	NM	NM	1,006.71	1,007.93	1,002.00
SW9	1,010.10	NM	1,004.96	NM	NM	NM	1,004.70	NM	NM	1,004.53	1,004.85	1,000.77
SW10	1,010.50	NM	1,005.46	NM	NM	NM	1,005.13	NM	NM	1,004.93	1,005.41	1,002.37
SW11	1,013.04	NM	1,002.51	NM	NM	NM	1,000.28	NM	NM	1,000.71	1,002.28	996.89
SW12	1,013.14	NM	1,009.36	NM	NM	NM	1,008.79	NM	NM	1,000.74	1,009.36	Dry(12.85)
SW14	1,009.76	NM	1,004.22	NM	NM	NM	1,001.37	NM	NM	1,003.48	1,004.22	996.48
SW15	1,010.93	NM	1,006.86	NM	NM	NM	1,004.21	NM	NM	1,006.29	1,006.90	997.93
SW21	1,012.93	NM	1,005.93	NM	NM	NM	1,007.53	NM	NM	1,006.58	1,007.63	1,005.45
SW23	1,006.00	NM	997.90	NM	NM	NM	996.46	NM	NM	996.28	997.48	995.84
SW24	1,004.76	NM	1,001.51	1,001.41	998.41	997.77	1,000.61	999.71	NM	999.66	submerged	1,001.26
SW25	1,007.01	NM	1,001.06	NM	NM	NM	998.95	NM	NM	999.30	1,000.83	996.78
SW26A	1,010.04	NM	999.99	NM	997.85	NM	999.38	NM	NM	999.49	1,000.06	998.12
SW27	1,014.31	NM	1,002.09	NM	Dry (15.09)	NM	Dry (15.10)	NM	NM	999.92	1,001.70	Dry(15.00)
SW28	1,011.41	NM	1,001.44	NM	Dry (13.91)	NM	997.83	NM	NM	999.38	1,000.95	Dry(13.21)
IW1	1,017.02	NM	996.26	NM	NM	NM	994.99	NM	NM	994.90	995.93	994.44
IW2	1,014.56	NM	997.76	NM	NM	NM	996.53	NM	NM	996.10	997.36	996.56
IW3	1,011.90	NM	998.20	NM	NM	NM	996.66	NM	NM	996.54	997.79	996.09
IW4A	1,010.06	NM	998.41	NM	NM	NM	996.97	NM	NM	996.81	998.07	996.36
IW5	1,009.39	NM	998.71	NM	NM	NM	997.24	NM	NM	997.00	998.29	996.58
IW8	1,012.19	NM	995.58	NM	NM	NM	994.17	NM	NM	994.07	995.15	993.61
IW9	1,015.38	NM	997.03	NM	NM	NM	995.58	NM	NM	995.39	996.66	995.11
P9	1,011.37	NM	1,006.28	NM	NM	NM	1,009.61	NM	NM	NM	Damaged	Damaged
P10	1,011.02	NM	1,007.52	NM	NM	NM	1,007.28	NM	NM	1,005.64	NM	NM
P11B	1,005.49	NM	1,002.39	NM	NM	NM	1,000.64	NM	NM	1,001.63	NM	NM
P12	1,006.10	NM	1,003.24	NM	NM	NM	1,002.90	NM	NM	Dry (3.90)	Dry	Dry
P13B	1,006.92	NM	997.77	NM	NM	NM	Dry (10.17)	NM	NM	Dry (10.21)	Dry	Dry
Staff Gauge ID (c)												
SG1	1005.47 (1.55)(b)	NM	1,005.90	NM	NM	NM	1,005.37	NM	NM	1,005.60	NM	Damaged
SG2	1005.47 (1.35)(b)	NM	1,006.92	NM	NM	NM	NM	NM	NM	NM	NM	Blocked
SG3	999.64 (1.20)(b)	NM	1,000.09	NM	NM	NM	Dry	NM	NM	Dry (0.33)	999.64	Dry
SG4	999.25 (1.17)(b)	NM	1,000.05	NM	NM	NM	998.68	NM	NM	999.07	1,000.60	Dry

7/28
/28

Notes:

(a) Measured on 3/17/99.
(b) Reference elevation is equivalent to the indicated reference gauge reading (in parentheses).
(c) Pond water elevation = (staff gauge reading) - (reference gauge reading) + reference elevation.
NA - Elevation not available.
NM - Not measured.

TABLE 3.2

SAMPLE KEY
OCTOBER 2005 GROUNDWATER SAMPLING EVENT
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Sample Location	*Sample Identification*	*QA/QC*	*Chemical Analysis*
GW-6124-103105-BW-180	SW-26A		TCL VOCs
GW-6124-103105-BW-181	SW-24		TCL VOCs
GW-6124-103105-BW-182	SW-1		TCL VOCs
GW-6124-103105-BW-183	SW-1	Duplicate	TCL VOCs
TB-6124-184	-	Trip Blank	TCL VOCs

Notes:

Collected groundwater samples were transported under chain-of-custody protocol to Severn Trent Laboratories, Inc., North Canton, Ohio
MS/MSD - Matrix Spike/Matrix Spike Duplicate
QA/QC - Quality Assurance/Quality Control

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-1*											
Sampling Date:	*1/13/1997*	*4/17/1997*	*7/17/1997*	*10/8/1997*	*1/20/1998*	*4/15/1998*	*7/16/1998*	*10/21/1998*	*3/16/1999*	*5/6/1999*	*7/26/1999*	*10/26/1999*
Sample ID:	*DC-142*	*SF-180*	*TJ-208*	*SF-231*	*SF-248*	*SM-279*	*TJ-318*	*SM-326*	*TJ-352*	*BE-381*	*BW-408*	*BW-435*
Parameter (µg/L)												
Acetone	4,000U	5,000U	3,100U	50U	12,000U	500UJ	2,500U	250U	500U	250U	2,500U	5,000U
Vinyl Chloride	4,000U	1,000U	620U	47	2,500U	100UJ	500U	50U	100U	65	500U	1,000U
cis-1,2-Dichloroethene	4,000U	2,600	2,000	2,500E	3,600	3,400EJ	4,300	5,200	3,700	4,800E	4,900	5,100
trans-1,2-Dichloroethene	4,000U	1,000U	620U	32	2,500U	100UJ	500U	50U	100U	50	500U	1,000U
1,2-Dichloroethane	4,000U	1,000U	620U	10U	2,500U	100UJ	500U	50U	100U	50U	500U	1,000U
Trichloroethene	160,000	120,000	32,000	78,000	110,000	110,000	110,000	110,000E	97,000	120,000	100,000	110,000
Toluene	4,000U	1,000U	620U	62	2,500U	100UJ	500U	86	7800J	59	500U	1,000U
Xylenes (total)	4,000U	1,000U	620U	16	2,500U	100UJ	500U	50U	100U	50U	500U	1,000U
Chloromethane	4,000U	1,000U	620U	10U	2,500U	100UJ	500U	50U	100U	50U	500U	1,000U
1,1,1-Trichloroethane	4,000U	1,800	620U	1,400E	2,500U	1,400J	1,400	1,200	1,200	1,600E	1,100	1,400
Methylene Chloride	8,000U	2,000U	820	710E	5,000U	960J	500U	680	800J	910	1,600U	2,000U
1,1-Dichloroethane	4,000U	1,000U	620U	120	2,500U	160J	500U	180	240	270	500U	1,000U
4-Methyl-2-Pentanone	4,000U	5,000U	3,100U	94	12,000U	100UJ	2,500U	250U	500U	250U	2500U	5,000U
Tetrachloroethene	4,000U	1,000U	620U	420E	2,500U	580J	500U	1,100	440	400	500U	1,000U
1,1,2-Trichloroethane	4,000U	1,000U	620U	16	2,500U	100UJ	500U	50U	100U	50U	500U	1,000U
1,1-Dichloroethene	4,000U	1,000U	620U	10U	2,500U	100UJ	500U	76	100U	86	500U	1,000U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well	*SW-1*							
Sampling Date:	*1/25/2000*	*4/25/2000*	*7/20/2000*	*10/31/2000*	*1/11/2001*	*4/3/2001*	*7/9/2001*	*10/3/2001*
Sample ID:	*BW-460*	*BW-485*	*BW-498/BW-499*	*BW-015*	*EH-025/EH-026*	*BW-044*	*BN-062*	*BN-067*
Parameter (µg/L)								
Acetone	3,600U	3,100U	6,200U/6,200U	2,500UJ	4,200U/4,200U	2,500U	2,500U	6,200U
Vinyl Chloride	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
cis-1,2-Dichloroethene	4,900	4,500	6,600/6,000	4500J	5,000/5,200	3,500	6,000	6,200
trans-1,2-Dichloroethene	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
1,2-Dichloroethane	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
Trichloroethene	170,000	96,000	96,000/92,000	90,000	130,000/140,000	77,000	150,000	150,000
Toluene	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
Xylenes (total)	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
Chloromethane	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
1,1,1-Trichloroethane	1,200	1,100	1,200/1,200U	1,500J	1,800/2,000	1,200	2,500U	1,900
Methylene Chloride	1,400U	1,200U	2,500U/2,500U	1,300J	1,700U/1,700U	1,200	2,500U	2,500U
1,1-Dichloroethane	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
4-Methyl-2-Pentanone	3,600U	3,100U	6,200U/6,200U	500UJ	830U/830U	500U	2,500U	1,200U
Tetrachloroethene	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
1,1,2-Trichloroethane	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U
1,1-Dichloroethene	710U	620U	1,200U/1,200U	500UJ	830U/830U	500U	2,500U	1,200U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	SW-1										
Sampling Date:	*1/18/2002*	*4/18/2002*	*7/15/2002*	*10/21/2002*	*1/10/2003*	*4/15/2003*	*7/11/2003*	*10/31/2003*	*4/27/2004*	*4/29/2005*	*11/1/2005*
Sample ID:	*BN-068*	*BW-079*	*BW-095*	*BW-104*	*BW-105/106*	*BW-120*	*BW-135*	*EH-136*	*BW-150*	*BW-166*	*BW-182*
Parameter (µg/L)											
Acetone	12,000U	6,200U	25,000U	1,200U	25,000U/15,000U	6200U	6200U	2,500U	5,000U	2,500U	120,000U/50,000U
Vinyl Chloride	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
cis-1,2-Dichloroethene	6,000	5,800	5,500	8,400	9,000/8,800	7,100	6,600	10,000	5,500	3,800	25,000U/10,000U
trans-1,2-Dichloroethene	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	5,000U	25,000U/10,000U
1,2-Dichloroethane	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
Trichloroethene	170,000	160,000	160,000	190,000	240,000/190,000	240,000	180,000	210,000	170,000	110,000	230,000/190,000
Toluene	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
Xylenes (total)	2,500U	1,200U	5,000U	1,200U	3,000U/1,800U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
Chloromethane	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
1,1,1-Trichloroethane	2,500U	1,700	5,000U	1,800	2,800/2,500	2,500	1,900	2,200	1,600	1,100	25,000U/10,000U
Methylene Chloride	5,000U	2,500U	10,000U	1,200U	5,000U/3100U	2,700	2500U	3,200	2,000U	1,100	25,000U/10,000U
1,1-Dichloroethane	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
4-Methyl-2-Pentanone	2,500U	1,200U	5,000U	1,200U	50,000U/31,000U	6200U	6200U	500U	5,000U	2,500U	25,000U/10,000U
Tetrachloroethene	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
1,1,2-Trichloroethane	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U
1,1-Dichloroethene	2,500U	1,200U	5,000U	1,200U	1,000U/620U	1200U	1200U	500U	1,000U	500U	25,000U/10,000U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-2*												
Sampling Date:	*4/15/1998*	*7/15/1998*	*10/23/1998*	*3/17/1999*	*5/6/1999*	*7/27/1999*	*10/27/1999*	*1/25/2000*	*4/25/2000*	*4/3/2001*	*4/18/2002*	*4/16/2003*	*4/28/2004*
Sample ID:	*SM-275*	*TJ-299*	*SM-343*	*TJ-361*	*BE-389*	*BW-413*	*BW-442*	*BW-465*	*BW-488*	*BW-055*	*BW-086*	*BW-127*	*BW-159/160*
Parameter (µg/L)													
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	5U	5	5U	5U	5U/5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
1,1,1-Trichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
Methylene Chloride	2U	2U	2U	2U	2U	2U	2U	2U	2U	2U	2U	2U	2U/2U
1,1-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
4-Methyl-2-Pentanone	5U	5U	5U	5U	5U	5U	5U	5U	5U	1U	1U	5U	5U/5U
Tetrachloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
1,1,2-Trichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U
1,1-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-3(1)*										
Sampling Date:	*10/9/1995*	*1/10/1996*	*7/11/1996*	*10/22/1996*	*1/14/1997*	*4/18/1997*	*7/17/1997*	*10/9/1997*	*1/20/1998*	*4/15/1998*	*7/15/1998*
Sample ID:		*SF-063*	*SDM-112*	*SM-130*	*DC-155*	*SF-190*	*TJ-216*	*SF-241*	*SF-254/255*	*SM-287*	*TJ-312*
Parameter (µg/L)											
Acetone	5	6.7U	10U	6	12	5U	5U	5U	5U/5U	5U	5U
Vinyl Chloride	3	1U	46	9	19	1.3	12	6.9	14/12	9	1U
cis-1,2-Dichloroethene	2.4	1U	14	1	2	1U	1U	1U	1U/1U	1U	1.5
trans-1,2-Dichloroethene	1U	1U	2U	1U	1U	1U	1U	1U	1U/1U	1U	1U
1,2-Dichloroethane	1U	1U	2U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Trichloroethene	3.6	1U	2U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Toluene	1U	1U	2U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Xylenes (total)	1U	1U	2U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Chloromethane	1U	1U	2U	2	1U	1U	1U	1U	1U/1U	1U	1U
1,1,1-Trichloroethane	1U	1U	2U	2	1U	1U	1U	1U	1U/1U	1U	1U
Methylene Chloride	2U	2U	4U	2U	2U	2U	2U	2U	2U/2U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-3(1)*											
Sampling Date:	*10/22/1998*	*3/17/1999*	*5/6/1999*	*7/27/1999*	*10/26/1999*	*1/25/2000*	*4/25/2000*	*4/3/2001*	*4/18/2002*	*4/15/2003*	*4/27/2004*	*4/29/2005*
Sample ID:	*SM-334*	*TJ-357*	*BE-382*	*BW-409*	*BW-436*	*BW-461*	*BW-486*	*BW-046/047*	*BW-082*	*BW-121*	*BW-151*	*BW-167*
Parameter (µg/L)												
Acetone	5.6	6.1U	5U	5U	5U	5U	5U	5U/5U	5U	5U	5U	5U
Vinyl Chloride	57	2.2	15	5.9	7.4	2.5	2.0	5.0/5.3	4	1U	1U	1U
cis-1,2-Dichloroethene	1.3	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Trichloroethene	1U	5.5	1U	1U	18	1U	1U	2.7/2.3	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
1,1,1-Trichloroethane	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Methylene Chloride	1U	1U	1U	1U	1U	1U	1U	2U/2U	2U	1U	2U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-4*										
Sampling Date:	*10/9/1995*	*1/10/1996*	*4/11/1996*	*7/11/1996*	*10/23/1996*	*1/15/1997*	*4/18/1997*	*7/17/1997*	*10/9/1997*	*1/20/1998*	*4/15/1998*
Sample ID:	*SF-046/047*	*SF-061/062*	*SF-083*	*SDM-118*	*SM-140*	*DC-159*	*SF-187/188*	*TJ-212*	*SF-237*	*SF-258*	*SM-286*
Parameter (µg/L)											
Acetone	7.2U/9.6U	5U/5.7U	5U	5U	5U	15	6.8/5U	5U	5U/5U	5U	5U
Vinyl Chloride	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
cis-1,2-Dichloroethene	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
trans-1,2-Dichloroethene	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
1,2-Dichloroethane	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
Trichloroethene	1U/5.2	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
Toluene	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
Xylenes (total)	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
Chloromethane	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U
Carbon Disulfide	1U/1U	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-4*											
Sampling Date:	*7/15/1998*	*10/22/1998*	*3/17/1999*	*5/5/1999*	*7/26/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*4/3/2001*	*4/17/2002*	*4/14/2003*	*4/26/2004*
Sample ID:	*TJ-310*	*SM-331*	*TJ-356*	*BE-371*	*BW-397*	*BW-424*	*BW-448*	*BW-473*	*BW-033*	*BW-069/070*	*BW-108*	*BW-138*
Parameter (µg/L)												
Acetone	7.7	5U	5U	5U	5U	5U	5U	5U	5U	5U/5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Carbon Disulfide	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-6*												
Sampling Date:	*4/15/1998*	*7/16/1998*	*10/21/1998*	*3/16/1999*	*5/6/1999*	*7/26/1999*	*10/26/1999*	*1/25/2000*	*4/25/2000*	*4/3/2001*	*4/18/2002*	*4/15/2003*	*4/27/2004*
Sample ID:	*SM-280*	*TJ-317*	*SM-325*	*TJ-350*	*BE-380*	*BW-404*	*BW-434*	*BW-459*	*BW-484*	*BW-045*	*BW-080*	*BW-119*	*BW-149*
Parameter (µg/L)													
Acetone	5U	5U	5U	8.7	5U	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	2.5	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1.3	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Carbon Disulfide	1U	1U	2.9	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
2-Butanone	5U	5U	5U	5U	5U	5U	5U	6.0	5U	5U	5U	5U	5U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-9A*										
Sampling Date:	*10/10/1995*	*1/10/1996*	*4/10/1996*	*7/10/1996*	*10/22/1996*	*1/14/1997*	*4/18/1997*	*7/17/1997*	*10/10/1997*	*1/20/1998*	*4/15/1998*
Sample ID:	*SF-048*	*SF-059*	*SF-077*	*SDM-106*	*SM-129*	*DC-149*	*SF-184*	*TJ-211*	*SF-235*	*SF-249*	*SM-286*
Parameter (µg/L)											
Acetone	8.8U	5U	5.6	5U	5U	5U	5U	5U	6.1	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1.6	15	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	2.0	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1.5	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U/1U	1U	1U	1U	1U	1U	1U	1.5	1U	1U	1U
Chloroethane	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-9A*											
Sampling Date:	*7/16/1998*	*10/23/1998*	*3/16/1999*	*5/6/1999*	*7/26/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*4/2/2001*	*4/17/2002*	*4/15/2003*	*4/26/2004*
Sample ID:	*TJ-320*	*SM-342*	*TJ-354*	*BE-384*	*BW-398*	*BW-425*	*BW-450*	*BW-475*	*BW-035*	*BW-071*	*BW-119*	*BW-140*
Parameter (µg/L)												
Acetone	5U	5U	5U/5U	6.1	5U	5U	5U	5U	5U	5U	5U	5.7
Vinyl Chloride	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloroethane	1U	1U	1U/1U	1U	1U	1U	1.7	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-10 (1)*										
Sampling Date:	*10/10/1995*	*1/10/1996*	*7/10/1996*	*10/22/1996*	*1/15/1997*	*4/18/1997*	*7/17/1997*	*10/9/1997*	*1/20/1998*	*4/15/1998*	*7/16/1998*
Sample ID:	*SF-049*	*SF-060*	*SDM-105*	*SM-128*	*DC-160*	*SF-185*	*TJ-210*	*SF-236*	*SF-250*	*SM-284*	*TJ-319*
Parameter (µg/L)											
Acetone	5U	5U	5U	5U	51	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	2.4	2.6	1U	1U	1U	1.2	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	2.5	1.9	1U	1	9.9	7.7	2.6	1.8	3.0	1.2
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	9.5	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	2	1U	1.2	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-10 (1)*											
Sampling Date:	*10/23/1998*	*3/16/1999*	*5/5/1999*	*7/26/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*4/2/2001*	*4/18/2002*	*4/14/2003*	*4/26/2004*	*4/29/2005*
Sample ID:	*SM-341*	*TJ-353*	*BE-385*	*BW-399*	*BW-427*	*BW-451*	*BW-476*	*BW-038*	*BW-088/089*	*BW-112*	*BW-141*	*BW-170*
Parameter (µg/L)												
Acetone	5U	5U	5.2	5U	5U	5U	5U	5U	5U/5U	5U	5U	5U
Vinyl Chloride	2.6	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U
cis-1,2-Dichloroethene	4.6	9.6	12	6.1	2.8	5.1	8.3	4.4	6.2/6.7	10	15	27
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1.4	1.4	1.6
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-11*										
Sampling Date:	*7/9/1996*	*1/15/1997*	*4/16/1997*	*7/16/1997*	*10/7/1997*	*1/19/1998*	*4/14/1998*	*7/14/1998*	*10/21/1998*	*3/16/1999*	*5/5/1999*
Sample ID:	*SDM-098*	*DC-164*	*SF-170*	*TJ-195*	*SF-221*	*SF-246*	*SM-270*	*SF-297*	*SM-323*	*TJ-348*	*BE-376*
Parameter (µg/L)											
Acetone	5U	13	5U	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1.5	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-11*						
Sampling Date:	*7/26/1999*	*10/26/1999*	*1/24/2000*	*4/2/2001*	*4/17/2002*	*4/15/2003*	*4/27/2004*
Sample ID:	*BW-406*	*BW-430*	*BW-455*	*BW-040*	*BW-076*	*BW-116*	*BW-146*
Parameter (µg/L)							
Acetone	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-12(4)*											
Sampling Date:	*7/9/1996*	*1/14/1997*	*4/16/1997*	*7/16/1997*	*10/7/1997*	*1/19/1998*	*4/14/1998*	*7/14/1998*	*3/16/1999*	*5/5/1999*	*7/26/1999*	*1/24/2000*
Sample ID:	*SDM-099*	*DC-148*	*SF-169*	*TJ-194*	*SF-220*	*SF-245*	*SM-269*	*SF-296*	*TJ-347*	*BE-375*	*BW-405*	*BW-454*
Parameter (µg/L)												
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1.0	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-12(4)*				
Sampling Date:	*4/25/2000*	*4/2/2001*	*4/17/2002*	*4/15/2003*	*4/26/2004*
Sample ID:	*BW-480*	*BW-039*	*BW-075*	*BW-115*	*BW-144/145*
Parameter (µg/L)					
Acetone	5U	5U	5U	5U	5U/5U
Vinyl Chloride	1U	1U	1U	1U	1U/1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U/1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U/1U
1,2-Dichloroethane	1U	1U	1U	1U	1U/1U
Trichloroethene	1U	1U	1U	1U	1U/1U
Toluene	1U	1U	1U	1U	1U/1U
Xylenes (total)	1U	1U	1U	1U	1U/1U
Chloromethane	1U	1U	1U	1U	1U/1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-14*											
Sampling Date:	*10/6/1995*	*1/9/1996*	*4/10/1996*	*7/9/1996*	*10/21/1996*	*1/15/1997*	*4/16/1997*	*7/16/1997*	*10/7/1997*	*1/19/1998*	*4/14/1998*	*7/14/1998*
Sample ID:	*SF-036*	*SF-051*	*SF-074*	*SDM-094*	*SM-120*	*DC-162*	*SF-167*	*TJ-192*	*SF-219*	*SF-243*	*SM-267*	*SF-294*
Parameter (µg/L)												
Acetone	5U	5.6U	5U	5U	7	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1.5	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1.2	1	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-14*										
Sampling Date:	*10/21/1998*	*3/16/1999*	*5/5/1999*	*7/26/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*4/2/2001*	*4/17/2002*	*4/14/2003*	*4/26/2004*
Sample ID:	*SM-321*	*TJ-345*	*BE-374*	*BW-400*	*BW-428*	*BW-453*	*BW-478*	*BW-037*	*BW-074*	*BW-113*	*BW-143*
Parameter (µg/L)											
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-23*											
Sampling Date:	*10/9/1995*	*1/9/1996*	*4/10/1996*	*7/10/1996*	*10/21/1996*	*1/15/1997*	*4/17/1997*	*7/16/1997*	*10/7/1997*	*1/20/1998*	*4/15/1998*	*7/15/1998*
Sample ID:	*SF-043*	*SF-058*	*SF-078*	*SDM-102*	*SDM-125*	*DC-161*	*SF-181*	*TJ-204/205*	*SF-223*	*SF-251*	*SM-273*	*TJ-309*
Parameter (µg/L)												
Acetone	5U	50U	43	5U	5U	8	11	5U/5U	5U	5U	5U	5U
Vinyl Chloride	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
1,2-Dichloroethane	1.1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Trichloroethene	1U	110	1U	1.4	1U	1U	1U	1U/1U	1U	1U	1U	1U
Toluene	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Xylenes (total)	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Chloromethane	1U	10U	1U	1.0	2	1U	1U	1U/1U	1U	1U	1U	1U
1,1-Dichloroethene	1U	10U	1U	1.0	2	1U	1U	1U/1U	1U	1U	1U	1U
Chloroform	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
1,1,2-Trichloroethane	1U	10U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-23*										
Sampling Date:	*10/22/1998*	*3/17/1999*	*5/7/1999*	*7/27/1999*	*10/27/1999*	*1/26/2000*	*4/26/2000*	*4/3/2001*	*4/18/2002*	*4/15/2003*	*4/27/2004*
Sample ID:	*SM-339*	*TJ-358*	*BE-391*	*BW-410*	*BW-438*	*BW-469*	*BW-493*	*BW-048*	*BW-085*	*BW-123*	*BW-153*
Parameter (µg/L)											
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,1-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloroform	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,1,2-Trichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-24*									
Sampling Date:	*10/9/1995*	*1/9/1996*	*4/10/1996*	*7/10/1996*	*10/21/1996*	*1/13/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*1/20/1998*
Sample ID:	*SF-041*	*SF-057*	*SF-079*	*SDM-103/104*	*SM-126*	*DC-143*	*SF-182*	*TJ-206*	*SF-233*	*SF-252*
Parameter (µg/L)										
Acetone	5,000U	3,125U	2,500U	3,125U/5,000U	250U	250U	50U	1,000U	40U	2,500U
Vinyl Chloride	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	17	500U
cis-1,2-Dichloroethene	1,000U	740	990	625U/1,000U	1,300	910	5.2J	1,400	1,200	1.000
trans-1,2-Dichloroethene	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	9.2	500U
1,2-Dichloroethane	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U
Trichloroethene	14,000	8,700	10,000	11,000/12,000	12,000EJ	13,000	140	10,000	16,000	17,000
Toluene	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U
Xylenes (total)	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U
Chloromethane	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U
1,1-Dichloroethene	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	11	500U
Chloroform	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U
1,1,2-Trichloroethane	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U
Methylene Chloride	1,000U	625U	500U	625U/1,000U	250U	250U	10U	200U	8U	500U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-24*										
Sampling Date:	*4/21/1998*	*7/15/1998*	*10/22/1998*	*5/7/1999*	*10/27/1999*	*7/28/1999*	*1/26/2000*	*4/26/2000*	*7/20/2000*	*10/31/2000*	*4/3/2001*
Sample ID:	*SM-293*	*TJ-307*	*SM-336*	*BE-394*	*BW-439/440*	*BW-419/420*	*BW-472*	*BW-495*	*BW-500*	*BW-016*	*BW-050*
Parameter (µg/L)											
Acetone	5U	250U	5U	50U	1,000U/500U	500U/500U	84U	170U	360U	830UJ	500U
Vinyl Chloride	20	50U	1U	15	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
cis-1,2-Dichloroethene	520E	1,300	3,100	1,700	1,900/1,800	1,400/1,400	1,600	150	1,300	1,200J	640
trans-1,2-Dichloroethene	1J	50U	1U	15	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
1,2-Dichloroethane	0.8J	50U	1U	10U	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
Trichloroethene	9,900	16,000	13,000	16,000	13,000/13,000	17,000/16,000	2,000	7,100	4,400	12,000J	14,000
Toluene	1U	50U	1U	10U	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
Xylenes (total)	1U	50U	1U	10U	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
Chloromethane	1U	50U	1U	10U	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
1,1-Dichloroethene	1J	50U	1U	13	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
Chloroform	2	50U	1U	10U	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
1,1,2-Trichloroethane	4	50U	1U	10U	200U/100U	100U/100U	17U	33U	71U	170UJ	100U
Methylene Chloride	1U	50U	1U	13	400U/200U	210U/200U	33U	67U	140U	330UJ	200U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-24*										
Sampling Date:	*7/9/2001*	*10/3/2001*	*4/18/2002*	*7/15/2002*	*10/21/2002*	*1/10/2003*	*4/15/2003*	*7/11/2003*	*4/27/2004*	*5/5/2005*	*10/31/2005*
Sample ID:	*BN-061*	*BN-066*	*BW-083*	*BW-096/097*	*BW-102/103*	*BW-107*	*BW-124*	*BW-134*	*BW-154*	*BW-178*	*BW-181*
Parameter (µg/L)											
Acetone	4,200U	620U	500U	330U/330U	500U/620U	1000U	62U	360U	500U	6,200U	4,200U
Vinyl Chloride	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
cis-1,2-Dichloroethene	830U	770	650	620/600	780/830	630	270	1900	740	1,200U	830U
trans-1,2-Dichloroethene	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
1,2-Dichloroethane	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
Trichloroethene	16,000	14,000	14,000	14,000/14,000	15,000/15,000	13,000	2,600	13,000	17,000	16,000	15,000
Toluene	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
Xylenes (total)	830U	120U	100U	330U/330U	100U/120U	130U	12U	71U	100U	1,200U	830U
Chloromethane	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
1,1-Dichloroethene	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
Chloroform	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
1,1,2-Trichloroethane	830U	120U	100U	330U/330U	100U/120U	42U	12U	71U	100U	1,200U	830U
Methylene Chloride	1,700U	250U	200U	330U/330U	200U/250U	210U	25U	140U	100U	1,200U	830U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-25*										
Sampling Date:	*10/6/1995*	*1/9/1996*	*4/9/1996*	*7/9/1996*	*10/21/1996*	*1/15/1997*	*4/16/1997*	*7/16/1997*	*10/7/1997*	*1/19/1998*	*4/14/1998*
Sample ID:	*SF-037*	*SF-053/054*	*SF-073*	*SDM-099*	*SM-123*	*DC-165*	*SF-171*	*TJ-196/197*	*SF-222*	*SF-247*	*SM-271/272*
Parameter (µg/L)											
Acetone	5U	6.7U/8.2U	5U	5U	5U	5U	5U	5U/5U	5U	5U	5U/5U
Vinyl Chloride	1U	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
cis-1,2-Dichloroethene	1U	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
trans-1,2-Dichloroethene	1U	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
1,2-Dichloroethane	1 1	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
Trichloroethene	1U	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
Toluene	1U	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
Xylenes (total)	1U	1U/1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U/1U
Chloromethane	1U	1U/1U	1U	1.0	2	1U	1	1U/1U	1U	1U	1U/1U
Carbon Disulfide	1U	1U/1U	1U	1.0	2	1U	1U	1U/1U	1U	1U	1U/1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-25*											
Sampling Date:	*7/14/1998*	*10/21/1998*	*3/16/1999*	*5/5/1999*	*7/26/1999*	*10/26/1999*	*1/24/2000*	*4/25/2000*	*4/2/2001*	*4/17/2002*	*4/15/2003*	*4/27/2004*
Sample ID:	*SF-298*	*SM-324*	*TJ-349*	*BE-377*	*BW-407*	*BW-431*	*BW-456/457*	*BW-482/483*	*BW-041/042*	*BW-077*	*BW-117*	*BW-147*
Parameter (µg/L)												
Acetone	5U	5U	5U	5U	5U	5U	5U/5U	5U/5U	6.8/5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	4.1/3.7	1U/1U	1U/1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U
Carbon Disulfide	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-25*
Sampling Date:	*4/30/2005*
Sample ID:	**BW-171**
Parameter (µg/L)	
Acetone	5U
Vinyl Chloride	1U
cis-1,2-Dichloroethene	1U
trans-1,2-Dichloroethene	1U
1,2-Dichloroethane	1U
Trichloroethene	1U
Toluene	1U
Xylenes (total)	1U
Chloromethane	1U
Carbon Disulfide	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-26A*										
Sampling Date:	*10/9/1995*	*1/9/1996*	*4/10/1996*	*7/9/1996*	*10/21/1996*	*1/15/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*1/20/1998*	*4/15/1998*
Sample ID:	*SF-040*	*SF-056*	*SF-080/081*	*SDM-100/101*	*SM-127*	*DC-166*	*SF-183*	*TJ-207*	*SF-234*	*SF-253*	*SM-274*
Parameter (µg/L)											
Acetone	11U	5U	5U/5U	5U/5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	5.1	3.3	1.8/1.9	1U/1U	3	1	1U	1U	1U	1.3	1U
cis-1,2-Dichloroethene	4.2	4.7	2.6/3.1	1.6/1.7	4	2	1U	1.8	1.0	3.0	1U
trans-1,2-Dichloroethene	2.3	1.5	1.0/1.0	1.2/1.2	2	1U	1U	1U	1.2	1U	1U
1,2-Dichloroethane	1.4U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	17/18	1U/1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U/1U	1U/1.3	3	1U	1.4	1U	1U	1U	1U
Carbon Disulfide	1U	1U	1U/1U	1U/1U	1U	1U	1.5	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-26A*									
Sampling Date:	*7/15/1998*	*10/21/1998*	*3/17/1999*	*5/7/1999*	*7/28/1999*	*10/27/1999*	*1/25/2000*	*4/26/2000*	*10/31/2000*	*4/3/2001*
Sample ID:	*TJ-308*	*SM-330*	*TJ-359*	*BE-391/392*	*BW-423*	*BW-441*	*BW-463/464*	*BW-490*	*BW-009/010*	*BW-051*
Parameter (µg/L)										
Acetone	5U	5U	5.9U	5U/5U	5U	5U	5U/5U	5U/5U	5U/5U	5U
Vinyl Chloride	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
cis-1,2-Dichloroethene	1U	1.3	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
trans-1,2-Dichloroethene	1U	1.3	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
1,2-Dichloroethane	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
Trichloroethene	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1.4
Toluene	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
Xylenes (total)	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
Chloromethane	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U
Carbon Disulfide	1U	1U	1U	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	2U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-26A*						
Sampling Date:	*10/3/2001*	*4/18/2002*	*10/21/2002*	*4/15/2003*	*4/27/2004*	*4/29/2005*	*10/31/2005*
Sample ID:	*BN-065*	*BW-084*	*BW-101*	*BW-125/126*	*BW-155*	*BW-168*	*BW-180*
Parameter (µg/L)							
Acetone	5U	5U	7.6	5U/5U	5U	10U	5U
Vinyl Chloride	1U	1U	1U	1U/1U	1U	2U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U/1.2	1U	2U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U/1U	1U	2U	1U
1,2-Dichloroethane	1U	1U	1U	1U/1U	1U	2U	1U
Trichloroethene	1U	1U	1U	1U/1U	1U	2U	1U
Toluene	1U	1U	1U	1U/1U	1U	2U	1U
Xylenes (total)	1U	1U	1U	1U/1U	1U	2U	1U
Chloromethane	1U	1U	1U	1U/1U	1U	2U	1U
Carbon Disulfide	1U	1U	1U	1U/1U	1U	2U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	SW-27 (2)										
Sampling Date:	*10/9/1995*	*1/11/1996*	*4/11/1996*	*7/10/1996*	*1/14/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*1/21/1998*	*4/15/1998*	*7/15/1998*
Sample ID:	*SF-038*	*SF-068*	*SF-087*	*SDM-110*	*DC-152*	*SF-173*	*TJ-201*	*SF-224*	*SF-264/265*	*SM-278*	*TJ-302*
Parameter (µg/L)											
Acetone	6.8U	7.1U	5U	5U	5	5U	5U	5U	5U/5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
1,2-Dichloroethane	1.3U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Chloromethane	1U	1U	1U	1.1	1U	1U	1U	1U	1U/1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-27 (2)*							
Sampling Date:	*3/17/1999*	*5/6/1999*	*7/28/1999*	*10/31/2000*	*4/4/2001*	*4/19/2002*	*4/28/2004*	*4/30/2005*
Sample ID:	*TJ-367*	*BE-386*	*BW-415*	*BW-018*	*BW-059*	*BW-093*	*BW-157*	*BW-173*
Parameter (µg/L)								
Acetone	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1.7	2.9	1U	18
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-28 (3)*										
Sampling Date:	*10/9/1995*	*1/11/1996*	*4/11/1996*	*7/11/1996*	*10/22/1996*	*1/14/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*4/15/1998*	*7/15/1998*
Sample ID:	*SF-039*	*SF-071*	*SF-085*	*SDM-115*	*SM-134*	*DC-147*	*SF-175*	*TJ-198*	*SF-226*	*SM-282*	*TJ-305*
Parameter (µg/L)											
Acetone	6.0U	6.1U	5U	5U	5U	5U	5U	5U	5U/5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
1,2-Dichloroethane	1.9U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U
Chloromethane	1U	1U	1U	1.4	1	1U	1U	1U	1U/1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*SW-28 (3)*										
Sampling Date:	*3/17/1999*	*5/5/1999*	*7/28/1999*	*10/31/2000*	*1/11/2001*	*4/4/2001*	*10/3/2001*	*4/19/2002*	*4/16/2003*	*4/28/2004*	*4/30/2005*
Sample ID:	*TJ-364*	*BE-388*	*BW-421*	*BW-017*	*EH-027*	*BW-054*	*BN-063*	*BW-091*	*BW-131*	*BW-162*	*BW-172*
Parameter (µg/L)											
Acetone	18U	8.8	5U	50U	5U	5U	5U/5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	60	1U	1U	1U/1U	1U	1U	1U	1U
Toluene	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	10U	1U	1U	1U/1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-1*									
Sampling Date:	*10/3/1995*	*1/8/1996*	*4/11/1996*	*7/11/1996*	*10/22/1996*	*1/14/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*1/21/1998*
Sample ID:	*SF-025*	*SF-050*	*SF-084*	*SDM-117*	*SM-131*	*DC-150*	*SF-172*	*TJ-200*	*SF-230*	*SF-261*
Parameter (µg/L)										
Acetone	10U	19U	5U	5U	5U	28U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1.3	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-1*									
Sampling Date:	*4/15/1998*	*7/15/1998*	*10/21/1998*	*3/17/1999*	*5/14/1999*	*7/27/1999*	*10/27/1999*	*1/26/2000*	*4/25/2000*	*4/4/2001*
Sample ID:	*SM-276/277*	*TJ-300/301*	*SM-328/329*	*TJ-362*	*BE-395*	*BW-414*	*BW-443*	*BW-467*	*BW-489*	*BW-057*
Parameter (µg/L)										
Acetone	5U/5U	5U/5U	5U/5U	6.4U/5.6U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Toluene	1U/1U	1.2U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-1*		
Sampling Date:	*4/18/2002*	*4/16/2003*	*4/28/2004*
Sample ID:	*BW-087*	*BW-128*	*BW-158*
Parameter (µg/L)			
Acetone	5U	5U	5U
Vinyl Chloride	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U
Trichloroethene	1U	1U	1U
Toluene	1U	1U	1U
Xylenes (total)	1U	1U	1U
Chloromethane	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-2*										
Sampling Date:	*10/5/1995*	*1/10/1996*	*4/12/1996*	*7/10/1996*	*10/23/1996*	*1/14/1997*	*4/17/1997*	*7/17/1997*	*10/8/1997*	*1/21/1998*	*4/16/1998*
Sample ID:	*SF-033*	*SF-066*	*SF-090*	*SF-109*	*SM-138*	*DC-145*	*SF-177/178*	*TJ-209*	*SF-232*	*SF-260*	*SM-288*
Parameter (µg/L)											
Acetone	5U	15U	5U	5U	5U	5U	5.4U/5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-2*											
Sampling Date:	*7/16/1998*	*10/23/1998*	*3/16/1999*	*5/6/1999*	*7/26/1999*	*10/26/1999*	*1/25/2000*	*4/25/2000*	*4/3/2001*	*4/18/2002*	*4/15/2003*	*4/27/2004*
Sample ID:	*TJ-315/316*	*SM-344*	*TJ-351*	*BE-378/379*	*BW-402/403*	*BW-432*	*BW-458*	*BW-479*	*BW-043*	*BW-078*	*BW-118*	*BW-148*
Parameter (µg/L)												
Acetone	5U/5U	5U	5U	5U/5U	5U/5U	5U/5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Toluene	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U/1U	1U	1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-3*										
Sampling Date:	*10/4/1995*	*1/10/1996*	*4/12/1996*	*7/11/1996*	*10/23/1996*	*1/14/1997*	*4/18/1997*	*7/17/1997*	*10/9/1997*	*1/20/1998*	*4/16/1998*
Sample ID:	*SF-032*	*SF-064*	*SF-093*	*SDM-114*	*SM-139*	*DC-156*	*SF-191*	*TJ-217*	*SF-242*	*SF-256*	*SM-290*
Parameter (µg/L)											
Acetone	5U	8.2U	18	22U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1.4	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-3*												
Sampling Date:	*7/15/1998*	*10/22/1998*	*3/17/1999*	*5/6/1999*	*3/17/1999*	*5/6/1999*	*7/27/1999*	*10/26/1999*	*4/25/2000*	*4/3/2001*	*4/18/2002*	*4/15/2003*	*4/27/2004*
Sample ID:	*TJ-313*	*SM-335*	*TJ-370*	*BE-383*	*TJ-370*	*BE-383*	*BW-412*	*BW-437*	*BW-487*	*BW-049*	*BW-081*	*BW-122*	*BW-152*
Parameter (µg/L)													
Acetone	7.3	5U	5U	5.8	5U	5.8	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-3*
Sampling Date:	*4/29/2005*
Sample ID:	*BW-169*

Parameter (µg/L)	
Acetone	5U
Vinyl Chloride	1U
cis-1,2-Dichloroethene	1U
trans-1,2-Dichloroethene	1U
1,2-Dichloroethane	1U
Trichloroethene	1U
Toluene	1U
Xylenes (total)	1U
Chloromethane	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-4A*										
Sampling Date:	*10/4/1995*	*1/10/1996*	*4/11/1996*	*7/11/1996*	*10/23/1996*	*1/14/1997*	*4/18/1997*	*7/17/1997*	*10/9/1997*	*1/20/1998*	*4/16/1998*
Sample ID:	*SF-030/031*	*SF-065*	*SF-082*	*SDM-119*	*SM-141*	*DC-157/158*	*SF-189*	*TJ-213/214*	*SF-239*	*SF-259*	*SM-291/292*
Parameter (µg/L)											
Acetone	7.6U/7.0U	7.9U	5U	5U	5U	5U/5U	8.0U	5U/5U	5U	5U	5U/5U
Vinyl Chloride	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
cis-1,2-Dichloroethene	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
trans-1,2-Dichloroethene	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
1,2-Dichloroethane	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
Trichloroethene	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
Toluene	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
Xylenes (total)	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
Chloromethane	1U/1U	1U	4.7	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U
Benzene	1U/1U	1U	1U	1U	1U	1U/1U	1U	1U/1U	1U	1U	1U/1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-4A*											
Sampling Date:	*7/15/1998*	*10/22/1998*	*3/17/1999*	*5/5/1999*	*7/27/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*4/2/2001*	*4/17/2002*	*4/14/2003*	*4/26/2004*
Sample ID:	*TJ-311*	*SM-332*	*TJ-360*	*BE-372*	*BW-411*	*BW-426*	*BW-449*	*BW-474*	*BW-034*	*BW-072*	*BW-109/110*	*BW-139*
Parameter (µg/L)												
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	8.4	5U	5U/5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1.5	1U	1U	1U	1U/1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U
Benzene	1U	1U	1U	1U	1U	1U	1	1U	1U	1U	1U/1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-5*									
Sampling Date:	*10/6/1995*	*1/9/1996*	*4/10/1996*	*7/9/1996*	*10/21/1996*	*1/15/1997*	*4/16/1997*	*7/16/1997*	*10/7/1997*	*1/19/1998*
Sample ID:	*SF-035*	*SF-052*	*SF-075/076*	*SDM-095/096*	*SM-121/122*	*DC-163*	*SF-168*	*TJ-193*	*SF-218*	*SF-244*
Parameter (µg/L)										
Acetone	5U	8.3U	5U/6.7	5U/5U	5U/5U	5U	120	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1.0	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U/1U	1U/1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U/1U	1.0/1.0	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-5*												
Sampling Date:	*4/14/1998*	*7/14/1998*	*10/21/1998*	*3/16/1999*	*5/5/1999*	*7/26/1999*	*10/25/1999*	*1/24/2000*	*4/24/2000*	*4/2/2001*	*4/17/2002*	*4/14/2003*	*4/26/2004*
Sample ID:	*SM-268*	*SF-295*	*SM-322*	*TJ-346*	*BE-373*	*BW-401*	*BW-429*	*BW-452*	*BW-477*	*BW-036*	*BW-073*	*BW-114*	*BW-142*
Parameter (µg/L)													
Acetone	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-8*											
Sampling Date:	*10/3/1995*	*1/9/1996*	*4/11/1996*	*7/11/1996*	*10/22/1996*	*1/14/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*1/21/1998*	*4/15/1998*	*7/15/1998*
Sample ID:	*SF-026*	*SF-072*	*SF-086*	*SDM-116*	*SM-135/136*	*DC-151*	*SF-176*	*TJ-199*	*SF-228*	*SF-262*	*SM-283*	*TJ-306*
Parameter (µg/L)												
Acetone	6.4U	8.0U	5U	5U	5U/5U	5U	5.5U	5U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1.0	1U/1U	1U	1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-8*										
Sampling Date:	*10/22/1998*	*3/17/1999*	*5/7/1999*	*7/28/1999*	*10/27/1999*	*1/26/2000*	*4/26/2000*	*4/4/2001*	*4/19/2002*	*4/16/2003*	*4/28/2004*
Sample ID:	*SM-340*	*TJ-365*	*BE-390*	*BW-422*	*BW-445*	*BW-468*	*BW-492*	*BW-052/053*	*BW-090/092*	*BW-132/133*	*BW-163/164*
Parameter (µg/L)											
Acetone	5U	5U	5U	5U	5U	5U	5U	5U/5U	5U/5U	5U/5U	5U/5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
Trichloroethene	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
Toluene	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
Xylenes (total)	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U	1U/1U	1U/1U	1U/1U	1U/1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	IW-8
Sampling Date:	*4/30/2005*
Sample ID:	*BW-174/175*

Parameter (µg/L)	
Acetone	5U/5U
Vinyl Chloride	1U/1U
cis-1,2-Dichloroethene	1U/1U
trans-1,2-Dichloroethene	1U/1U
1,2-Dichloroethane	1U/1U
Trichloroethene	1U/1U
Toluene	1U/1U
Xylenes (total)	1U/1U
Chloromethane	1U/1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-9*										
Sampling Date:	*10/4/1995*	*1/9/1996*	*4/11/1996*	*7/10/1996*	*10/22/1996*	*1/14/1997*	*4/17/1997*	*7/16/1997*	*10/8/1997*	*1/21/1998*	*4/15/1998*
Sample ID:	*SF-028*	*SF-069*	*SF-088*	*SDM-111*	*SM-133*	*DC-153/154*	*SF-174*	*TJ-202*	*SF-225*	*SF-266*	*SM-281*
Parameter (µg/L)											
Acetone	5.8U	7.0U	9.9	5U	17U	5U/7U	6.2U	5U	5U	5U	5U
Vinyl Chloride	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U
Trichloroethene	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	2
Toluene	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U
Xylenes (total)	1U	1U	1U	1U	1U	1U/1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1.1	1U	1U/1U	1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	*IW-9*										
Sampling Date:	*7/15/1998*	*10/22/1998*	*3/17/1999*	*7/28/1999*	*10/27/1999*	*1/26/2000*	*4/26/2000*	*4/4/2001*	*4/19/2002*	*4/16/2003*	*4/28/2004*
Sample ID:	*TJ-303/304*	*SM-337/338*	*TJ-368*	*BW-417*	*BW-446*	*BW-470/471*	*BW-496*	*BW-058*	*BW-094*	*BW-130*	*BW-156*
Parameter (µg/L)											
Acetone	5U/5U	5U/5U	5U/5U	5U/5U	5U/5U	5U/5U	5U/5U	5U	5U	5U	5U
Vinyl Chloride	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
trans-1,2-Dichloroethene	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
1,2-Dichloroethane	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
Trichloroethene	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
Toluene	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
Xylenes (total)	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U
Chloromethane	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U/1U	1U	1U	1U	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Monitoring Well:	IW-9
Sampling Date:	4/30/2005
Sample ID:	BW-176

Parameter (µg/L)	
Acetone	5U
Vinyl Chloride	1U
cis-1,2-Dichloroethene	1U
trans-1,2-Dichloroethene	1U
1,2-Dichloroethane	1U
Trichloroethene	1U
Toluene	1U
Xylenes (total)	1U
Chloromethane	1U

TABLE 4.1

SUMMARY OF GROUNDWATER ANALYTICAL DATA
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Notes:

(1) No samples collected from wells SW-3 and SW-10 during April 1996 due to frozen conditions in well.
(2) No sample collected from well SW27 in October 1996, October 1998, October 1999, January 2000, April 2000, October 2001, and October 2002 as the well was dry.
(3) No sample collected from SW28 in January 1998, October 1998, October 1999, January 2000, April 2000, and October 2002 as the well was dry.
(4) No sample collected from SW12 in October 1998 and October 1999 as the well was dry.
(5) No sample collected from SW24 in January 2001 and January 2002 as ground surface was flooded.
U Not detected at reported detection limit.
J Estimated value.
E *Reported concentration in sample exceeded calibration range.*

TABLE 7.1

SUMMARY OF DRUM STATUS
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Drum ID	*Purge Date*	*Well Purged*	*Cumulative Volume In Drum (gal)*	*Date Drum Filled To Capacity*
1	11-Jan-03	SW-1		
		SW-24	5	--
	16-Apr-03	SW-1		
		SW-3		
		SW-24		
		SW-26	19	--
	12-Jul-03	SW-1		
		SW-24	28	--
	1-Nov-03	SW-1	31	--
	28-Apr-04	SW-1		
		SW-3		
		SW-24		
		SW-26	38	--
	29-Apr-05	SW-1		
	29-Apr-05	SW-3		
	5-May-05	SW-24		
	29-Apr-05	SW-26	44	--
	31-Oct-05	SW-24		
	31-Oct-05	SW-26		
	1-Nov-05	SW-1	49	--

Notes:

(1) "Small quantity generator" status applies to more than 100 kg (26.4 gallons) but less than 1,000 kg (264.4 gallons) of contaminated purge water generated per calendar month.

(2) "Conditionally exempt small quantity generator" status applies to less than or equal to 100 kg (26.4 gallons) of contaminated purge water generated per calendar month.

(3) Drum is/are closed-top DOT 55-gallon capacity.

(a) Estimated volume.

APPENDICES

APPENDIX A

WELL PURGE RECORDS

TABLE A.1

SUMMARY OF MONITORING WELL PURGING
HI-MILL MANUFACTURING
HIGHLAND TOWNSHIP, MICHIGAN

Location	*Water Level (ft. BTOR)*	*Well Depth (ft. BTOR)*	*Well Volume (gallons)*	*Volume Removed (gallons)*	*Conductivity (ms/cm)*	*Temperature (°C)*	*pH*	*Turbidity (NTUs)*	*Comments*
SW-1	14.12	19.30	0.75	0.75	0.794	15.7	6.81	67.4	sheen
				1.5	0.628	15.9	6.93	482	strong odor
				Well going dry					
SW-24	6.65	11.6	0.5	0.5	5.89	15.6	7.79	31.1	
				1	6.92	15.4	7.65	7.56	
				1.5	7.20	15.3	7.57	2.45	
				2.0	7.30	15.3	7.57	1.18	
SW-26	11.92	18.5	1.0	1.0	7.24	15.70	7.36	31.2	
				2.0	7.48	15.90	7.43	22.7	
				3.0	7.75	15.90	7.47	23.2	

APPENDIX B

LABORATORY ANALYTICAL REPORT

SEVERN TRENT STL®

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

6124
DEC 5 2005
CRA SDG 05-34

ANALYTICAL REPORT

PROJECT NO. 6124

HI-MILL

Lot #: A5K020210

Paul Wiseman (PM)

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 6124 Lot #: A5K020210
Name: Hi-mill
Description
Event: Semi Annual GW
Samples: 3 GW
Analysis: VOC,

TAT: 2 weeks
Lab: STL

SEVERN TRENT LABORATORIES, INC.

Checked Against Preliminary Data:
Date: _____ Init.: _____
Date of Validation Memo: 1/5/06
Final Approval Date: _____
Initials: _____

Denise D Heckler

Denise D. Heckler
Project Manager

December 1, 2005

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # № D

SSOW Ref Code

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wistner
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: H-Mill
Fax: 734-453-5201	Project Number: 6124
Email:	

Laboratory:	STL
Laboratory Location:	North Canton OH
Laboratory Contact:	
Requested Due Date:	TAT: 2wk
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Preservative

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Remarks/Lab ID
1.	GW-6124-103105-BW-180	WG	10/31/05	1150	3		Y					
2.	↓ ↓ 181	↓	↓	1245	3		X					run multiple dilution
3.	GW-6124-110105-BW-182	↓	11/1/05	0825	3		Y					run multiple Dilution
4.	↓ ↓ 183	↓	↓	0826	3		Y					
5.	TB-6124-184	WQ										
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												
15.												
	TOTAL NUMBER OF CONTAINERS											

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	[signature]	11/1/05	1200	John Donat	11/2/05	~~9:00~~ 9:15 AMS
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name

Sampler Signature: Date:

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Shipper GOLDENROD - Sampler Copy

CASE NARRATIVE

A5K020210

The following report contains the analytical results for four water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the Hi-Mill Site, project number 6124. The samples were received November 02, 2005, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 734-205-2535.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 18.

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.6°C.

GC/MS VOLATILES

Surrogate recoveries were outside criteria for sample(s) TB-6124-184. Due to insufficient sample volume, re-preparation and reanalysis could not occur.

EXECUTIVE SUMMARY - Detection Highlights

A5K020210

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-6124-103105-BW-181 10/31/05 12:45	**002**			
Trichloroethene	15000	830	ug/L	OCLP OLC02.1
GW-6124-110105-BW-182 11/01/05 08:25	**003**			
Trichloroethene	230000	25000	ug/L	OCLP OLC02.1
GW-6124-110105-BW-183 11/01/05 08:26	**004**			
Trichloroethene	190000	10000	ug/L	OCLP OLC02.1
TB-6124-184 11/01/05 005				
Acetone	6.2	5.0	ug/L	OCLP OLC02.1

ANALYTICAL METHODS SUMMARY

A5K020210

PARAMETER	ANALYTICAL METHOD
Volatile Organics	OCLP OLC02.1

References:

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SAMPLE SUMMARY

A5K020210

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
HN63J	001	GW-6124-103105-BW-180	10/31/05	11:50
HN638	002	GW-6124-103105-BW-181	10/31/05	12:45
HN64A	003	GW-6124-110105-BW-182	11/01/05	08:25
HN64D	004	GW-6124-110105-BW-183	11/01/05	08:26
HN64F	005	TB-6124-184	11/01/05	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-6124-103105-BW-180

GC/MS Volatiles

Lot-Sample #...: A5K020210-001 **Work Order #...:** HN63J1AA **Matrix.....:** WG
Date Sampled...: 10/31/05 11:50 **Date Received..:** 11/02/05
Prep Date.....: 11/09/05 **Analysis Date..:** 11/09/05
Prep Batch #...: 5313462
Dilution Factor: 1 **Method.....:** OCLP OLC02.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	5.0	ug/L
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	84	(80 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-6124-103105-BW-181

GC/MS Volatiles

Lot-Sample #...: A5K020210-002 **Work Order #...:** HN6381AA **Matrix.....:** WG
Date Sampled...: 10/31/05 12:45 **Date Received..:** 11/02/05
Prep Date.....: 11/09/05 **Analysis Date..:** 11/09/05
Prep Batch #...: 5313462
Dilution Factor: 833.33 **Method.....:** OCLP OLC02.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	4200	ug/L
Benzene	ND	830	ug/L
Bromodichloromethane	ND	830	ug/L
Bromoform	ND	830	ug/L
Bromomethane	ND	830	ug/L
2-Butanone	ND	4200	ug/L
Carbon disulfide	ND	830	ug/L
Carbon tetrachloride	ND	830	ug/L
Chlorobenzene	ND	830	ug/L
Chloroethane	ND	830	ug/L
Chloroform	ND	830	ug/L
Chloromethane	ND	830	ug/L
Dibromochloromethane	ND	830	ug/L
1,1-Dichloroethane	ND	830	ug/L
1,2-Dichloroethane	ND	830	ug/L
1,1-Dichloroethene	ND	830	ug/L
cis-1,2-Dichloroethene	ND	830	ug/L
trans-1,2-Dichloroethene	ND	830	ug/L
1,2-Dichloropropane	ND	830	ug/L
cis-1,3-Dichloropropene	ND	830	ug/L
trans-1,3-Dichloropropene	ND	830	ug/L
Ethylbenzene	ND	830	ug/L
2-Hexanone	ND	4200	ug/L
Methylene chloride	ND	830	ug/L
4-Methyl-2-pentanone	ND	4200	ug/L
Styrene	ND	830	ug/L
1,1,2,2-Tetrachloroethane	ND	830	ug/L
Tetrachloroethene	ND	830	ug/L
Toluene	ND	830	ug/L
1,1,1-Trichloroethane	ND	830	ug/L
1,1,2-Trichloroethane	ND	830	ug/L
Trichloroethene	**15000**	**830**	**ug/L**
Vinyl chloride	ND	830	ug/L
Xylenes (total)	ND	830	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	82	(80 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-6124-110105-BW-182

GC/MS Volatiles

Lot-Sample #...: A5K020210-003 **Work Order #...:** HN64A1AA **Matrix.....:** WG
Date Sampled...: 11/01/05 08:25 **Date Received..:** 11/02/05
Prep Date.....: 11/08/05 **Analysis Date..:** 11/08/05
Prep Batch #...: 5313462
Dilution Factor: 25000 **Method.....:** OCLP OLC02.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	120000	ug/L
Benzene	ND	25000	ug/L
Bromodichloromethane	ND	25000	ug/L
Bromoform	ND	25000	ug/L
Bromomethane	ND	25000	ug/L
2-Butanone	ND	120000	ug/L
Carbon disulfide	ND	25000	ug/L
Carbon tetrachloride	ND	25000	ug/L
Chlorobenzene	ND	25000	ug/L
Chloroethane	ND	25000	ug/L
Chloroform	ND	25000	ug/L
Chloromethane	ND	25000	ug/L
Dibromochloromethane	ND	25000	ug/L
1,1-Dichloroethane	ND	25000	ug/L
1,2-Dichloroethane	ND	25000	ug/L
1,1-Dichloroethene	ND	25000	ug/L
cis-1,2-Dichloroethene	ND	25000	ug/L
trans-1,2-Dichloroethene	ND	25000	ug/L
1,2-Dichloropropane	ND	25000	ug/L
cis-1,3-Dichloropropene	ND	25000	ug/L
trans-1,3-Dichloropropene	ND	25000	ug/L
Ethylbenzene	ND	25000	ug/L
2-Hexanone	ND	120000	ug/L
Methylene chloride	ND	25000	ug/L
4-Methyl-2-pentanone	ND	120000	ug/L
Styrene	ND	25000	ug/L
1,1,2,2-Tetrachloroethane	ND	25000	ug/L
Tetrachloroethene	ND	25000	ug/L
Toluene	ND	25000	ug/L
1,1,1-Trichloroethane	ND	25000	ug/L
1,1,2-Trichloroethane	ND	25000	ug/L
Trichloroethene	**230000**	**25000**	**ug/L**
Vinyl chloride	ND	25000	ug/L
Xylenes (total)	ND	25000	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	82	(80 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-6124-110105-BW-183

GC/MS Volatiles

Lot-Sample #...: A5K020210-004 **Work Order #...:** HN64D1AA **Matrix.....:** WG
Date Sampled...: 11/01/05 08:26 **Date Received..:** 11/02/05
Prep Date.....: 11/09/05 **Analysis Date..:** 11/09/05
Prep Batch #...: 5313462
Dilution Factor: 10000 **Method.....:** OCLP OLC02.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	50000	ug/L
Benzene	ND	10000	ug/L
Bromodichloromethane	ND	10000	ug/L
Bromoform	ND	10000	ug/L
Bromomethane	ND	10000	ug/L
2-Butanone	ND	50000	ug/L
Carbon disulfide	ND	10000	ug/L
Carbon tetrachloride	ND	10000	ug/L
Chlorobenzene	ND	10000	ug/L
Chloroethane	ND	10000	ug/L
Chloroform	ND	10000	ug/L
Chloromethane	ND	10000	ug/L
Dibromochloromethane	ND	10000	ug/L
1,1-Dichloroethane	ND	10000	ug/L
1,2-Dichloroethane	ND	10000	ug/L
1,1-Dichloroethene	ND	10000	ug/L
cis-1,2-Dichloroethene	ND	10000	ug/L
trans-1,2-Dichloroethene	ND	10000	ug/L
1,2-Dichloropropane	ND	10000	ug/L
cis-1,3-Dichloropropene	ND	10000	ug/L
trans-1,3-Dichloropropene	ND	10000	ug/L
Ethylbenzene	ND	10000	ug/L
2-Hexanone	ND	50000	ug/L
Methylene chloride	ND	10000	ug/L
4-Methyl-2-pentanone	ND	50000	ug/L
Styrene	ND	10000	ug/L
1,1,2,2-Tetrachloroethane	ND	10000	ug/L
Tetrachloroethene	ND	10000	ug/L
Toluene	ND	10000	ug/L
1,1,1-Trichloroethane	ND	10000	ug/L
1,1,2-Trichloroethane	ND	10000	ug/L
Trichloroethene	**190000**	**10000**	**ug/L**
Vinyl chloride	ND	10000	ug/L
Xylenes (total)	ND	10000	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	83	(80 - 120)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-6124-184

GC/MS Volatiles

Lot-Sample #...: A5K020210-005 **Work Order #...:** HN64F1AA **Matrix.....:** WQ
Date Sampled...: 11/01/05 **Date Received..:** 11/02/05
Prep Date.....: 11/08/05 **Analysis Date..:** 11/08/05
Prep Batch #...: 5313462
Dilution Factor: 1 **Method.....:** OCLP OLC02.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**6.2**	**5.0**	**ug/L**
Benzene	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
2-Butanone	ND	5.0	ug/L
Carbon disulfide	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
2-Hexanone	ND	5.0	ug/L
Methylene chloride	ND	1.0	ug/L
4-Methyl-2-pentanone	ND	5.0	ug/L
Styrene	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
Xylenes (total)	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	78 *	(80 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

SEVERN TRENT STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A5K020210 **Work Order #...:** HPP9M1AA **Matrix.....:** WATER
MB Lot-Sample #: A5K090000-462

Prep Date.....: 11/08/05
Analysis Date..: 11/08/05 **Prep Batch #...:** 5313462
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	5.0	ug/L	OCLP OLC02.1
Benzene	ND	1.0	ug/L	OCLP OLC02.1
Bromodichloromethane	ND	1.0	ug/L	OCLP OLC02.1
Bromoform	ND	1.0	ug/L	OCLP OLC02.1
Bromomethane	ND	1.0	ug/L	OCLP OLC02.1
2-Butanone	ND	5.0	ug/L	OCLP OLC02.1
Carbon disulfide	ND	1.0	ug/L	OCLP OLC02.1
Carbon tetrachloride	ND	1.0	ug/L	OCLP OLC02.1
Chlorobenzene	ND	1.0	ug/L	OCLP OLC02.1
Chloroethane	ND	1.0	ug/L	OCLP OLC02.1
Chloroform	ND	1.0	ug/L	OCLP OLC02.1
Chloromethane	ND	1.0	ug/L	OCLP OLC02.1
Dibromochloromethane	ND	1.0	ug/L	OCLP OLC02.1
1,1-Dichloroethane	ND	1.0	ug/L	OCLP OLC02.1
1,2-Dichloroethane	ND	1.0	ug/L	OCLP OLC02.1
1,1-Dichloroethene	ND	1.0	ug/L	OCLP OLC02.1
cis-1,2-Dichloroethene	ND	1.0	ug/L	OCLP OLC02.1
trans-1,2-Dichloroethene	ND	1.0	ug/L	OCLP OLC02.1
1,2-Dichloropropane	ND	1.0	ug/L	OCLP OLC02.1
cis-1,3-Dichloropropene	ND	1.0	ug/L	OCLP OLC02.1
trans-1,3-Dichloropropene	ND	1.0	ug/L	OCLP OLC02.1
Ethylbenzene	ND	1.0	ug/L	OCLP OLC02.1
2-Hexanone	ND	5.0	ug/L	OCLP OLC02.1
Methylene chloride	ND	1.0	ug/L	OCLP OLC02.1
4-Methyl-2-pentanone	ND	5.0	ug/L	OCLP OLC02.1
Styrene	ND	1.0	ug/L	OCLP OLC02.1
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	OCLP OLC02.1
Tetrachloroethene	ND	1.0	ug/L	OCLP OLC02.1
Toluene	ND	1.0	ug/L	OCLP OLC02.1
1,1,1-Trichloroethane	ND	1.0	ug/L	OCLP OLC02.1
1,1,2-Trichloroethane	ND	1.0	ug/L	OCLP OLC02.1
Trichloroethene	ND	1.0	ug/L	OCLP OLC02.1
Vinyl chloride	ND	1.0	ug/L	OCLP OLC02.1
Xylenes (total)	ND	1.0	ug/L	OCLP OLC02.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	82	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A5K020210 Work Order #...: HPP9M1AC Matrix.....: WATER
LCS Lot-Sample#: A5K090000-462
Prep Date.....: 11/08/05 Analysis Date..: 11/08/05
Prep Batch #...: 5313462
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**5.0**	**5.5**	**ug/L**	**111**	**OCLP OLC02.1**
Bromoform	**5.0**	**3.3**	**ug/L**	**67**	**OCLP OLC02.1**
Carbon tetrachloride	**5.0**	**4.1**	**ug/L**	**81**	**OCLP OLC02.1**
1,2-Dichloroethane	**5.0**	**5.3**	**ug/L**	**105**	**OCLP OLC02.1**
1,2-Dichloropropane	**5.0**	**5.8**	**ug/L**	**116**	**OCLP OLC02.1**
cis-1,3-Dichloropropene	**5.0**	**3.4**	**ug/L**	**68**	**OCLP OLC02.1**
Tetrachloroethene	**5.0**	**5.5**	**ug/L**	**110**	**OCLP OLC02.1**
1,1,2-Trichloroethane	**5.0**	**5.2**	**ug/L**	**105**	**OCLP OLC02.1**
Trichloroethene	**5.0**	**5.4**	**ug/L**	**109**	**OCLP OLC02.1**
Vinyl chloride	**5.0**	**4.9**	**ug/L**	**97**	**OCLP OLC02.1**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A5K020210 Work Order #...: HPP9M1AC Matrix.....: WATER
LCS Lot-Sample#: A5K090000-462
Prep Date.....: 11/08/05 Analysis Date..: 11/08/05
Prep Batch #...: 5313462
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**111**	**(60 - 140)**	**OCLP OLC02.1**
Bromoform	**67**	**(60 - 140)**	**OCLP OLC02.1**
Carbon tetrachloride	**81**	**(60 - 140)**	**OCLP OLC02.1**
1,2-Dichloroethane	**105**	**(60 - 140)**	**OCLP OLC02.1**
1,2-Dichloropropane	**116**	**(60 - 140)**	**OCLP OLC02.1**
cis-1,3-Dichloropropene	**68**	**(60 - 140)**	**OCLP OLC02.1**
Tetrachloroethene	**110**	**(60 - 140)**	**OCLP OLC02.1**
1,1,2-Trichloroethane	**105**	**(60 - 140)**	**OCLP OLC02.1**
Trichloroethene	**109**	**(60 - 140)**	**OCLP OLC02.1**
Vinyl chloride	**97**	**(60 - 140)**	**OCLP OLC02.1**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	96	(80 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 1 OF 1

ID # № D 0780

SSOW Ref. Code:

Required Client Information:

Company: CRA, Inc.	Report To: Paul Wistner
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: H-Mill
Fax: 734-453-5201	Project Number: 6124
Email:	

Laboratory:	STL
Laboratory Location:	North Canton OH
Laboratory Contact:	
Requested Due Date:	TAT: 2wk
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Preservative

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Remarks/Lab ID
1.	GW-6124-103105-BW-180	WG	10/31/05	1150	3		Y					
2.	↓ ↓ 181	↓	↓	1245	3		X					run multiple dilution
3.	GW-6124-110105-BW-182	↓	11/1/05	0825	3		Y					run multiple Dilution
4.	↓ ↓ 183	↓	↓	0826	3		Y					
5.	TB-6124-184	WQ										
6.												
7.												
8.												
9.												
10.												
11.												
12.												
13.												
14.												
15.												

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	[signature]	11/1/05	1200	John Dowd	11/2/05	~~9:30~~ 9:15 AMS
AIRBILL NO.							

Sample Condition

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name:

Sampler Signature Date:

Distri... WHITE - ... Execut... ...OW ...ng La... Cop... INK ... ENR... mpler ...

STL Cooler Receipt Form/Narrative **Lot Number:** H5K020210

North Canton Facility

Client: CRA Project: Quote#:

Cooler Received on: 11-2-05 Opened on: 11-2-05 by: [signature] (Signature) SOHN DONOF

Fedx ☑ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ STL Courier ☐

Stetson ☐ US Cargo ☐ Other:

STL Cooler No# N.CAN Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler? Yes ☐ No ☑ Intact? Yes ☐ No ☑ NA ☐
   If YES, Quantity
   Were the custody seals signed and dated? Yes ☐ No ☐ NA ☑
2. Shipper's packing slip attached to this form? Yes ☑ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other :
6. Cooler temperature upon receipt 2.6 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☑ ICE/H_2O Slurry ☐

COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐

7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels and/or tags be reconciled with the COC? Yes ☑ No ☐
9. Were samples at the correct pH? (record below/on back) Yes ☐ No ☐ NA ☑
10. Were correct bottles used for the tests indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? AMS Yes ☐ No ☑ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a Trip Blank present in the cooler? Yes ☑ No ☐ Were VOAs on the COC? Yes ☑ No ☐
14. Does the trip blank number match the cooler number in which it was received? Yes ☐ No ☐ NA ☑

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning:

√		

1. CHAIN OF CUSTODY

The following discrepancies occurred:

✓ NO tests listed on COC, log for VOCs per DDH AMS.

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 091305-HNO3; Sulfuric Acid Lot # 041305-H2SO4; Sodium Hydroxide Lot # -041305 -NaOH; Hydrochloric Acid Lot # 100504-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH*

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant

Discrepancies Cont.

SEVERN TRENT STL

END OF REPORT

LABORATORY REPORT COMPLIANCE ASSESSMENT CHECKLIST FORM

CRA Project #:	6124	Sampling Event:	GW Monitoring	CRA SDG ID:	: 05-34
Phase Code:	—	Laboratory:	STL-NC	Lab Report #:	ASK020210
Validation Memo Required:		Compliance ☐	Reduced Validation ☒	Full Validation ☐	
Lab Invoice Received:		Yes ☒ No ☐ if not:	GM Program: Yes ☐ No ☒	If No Request Inv. ☐	

1. **Sample Receipt**

COC Record: A ☒ Complete ☐ Incomplete ☒ CRA ☐ Non CRA COC was included with the samples.

Changes or corrections were noted on the attached COC, which was forwarded to the laboratory.

Comments: _____

Sample shipping/receiving issues: ☐ None Issues: _____

2. **Laboratory Reporting**	**Yes**	**No**	**Comments**
Sample IDs consistent with COC:	☒	☐	
Parameters as designated on COC:	☒	☐	
Analytical methods acceptable:	☒	☐	
Parameter analyte list correct:	☒	☐	
Report limits acceptable:	☒	☐	
Results consistent with preliminary data:	☐	☐	

3. **Laboratory Performance**	**Yes**	**No**	**Comments**
Sample holding times met:	☒	☐	
Requested turnaround time(s) (TAT) met:	☐	☒	
Method blanks reported non-detect:	☐	☐	
Final report received on time:	☐	☒	

4. **Report Deliverables**	**No. of Copies**	**Acceptable**	**On Time**	**Comments**
Rush Data:	Received:	☐ Yes ☐ No	☐ Yes ☐ No	
QC Summary Report:	1	☑ Yes ☐ No	☐ Yes ☑ No	
Expanded Report:		☐ Yes ☐ No	☐ Yes ☐ No	
Electronic (PDF) Report:	Received: 12/2	☑ Yes ☐ No	☐ Yes ☑ No	
EDDs (EquIS):	Received: 12/2	☑ Yes ☐ No	☐ Yes ☑ No	
Estimated (J) values:		☐ Yes ☐ No	MDLs reported?	☐ Yes ☐ No

Report Comments: _____

Additional comments and notes: _____

APPENDIX C

DATA VALIDATION REPORT

CONESTOGA-ROVERS & ASSOCIATES

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Plainville, Connecticut 06062
Telephone: (860) 747-1800 Fax: (860) 747-1900
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MEMORANDUM

TO: Jamie Puskas REF. NO.: 6124

FROM: Kathy Shaw/lo/1/CT DATE: January 5, 2006

RE: Data Quality Assessment and Validation
Semi-Annual Groundwater Monitoring
Hi-Mill Manufacturing Site - Highland Township, Michigan

The following details a quality assessment and validation of the analytical data resulting from the October 31, 2005, collection of three (3) groundwater and two (2) quality control samples from the Hi-Mill Manufacturing Site in Highland Township, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Severn Trent Laboratories in North Canton, Ohio (STL) in accordance with Method 8260B, SW-846, from "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", 3rd Edition and Promulgated Updates, November 1986. The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP).[1]

Holding Time Period and Sample Analysis

The holding time periods for volatile organic compounds (VOC) analysis is 14 days from sample collection until completion of analysis. he samples, as indicated by the sample collection, extraction and analysis dates on the chain-of-custody forms and analytical reports provided by STL, were prepared and analyzed within the required holding time periods.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by concurrent preparation and analysis of method blank samples. The method blank samples were reported to be free from detectable concentrations of target analytes, indicating no laboratory-attributable contamination occurred.

Laboratory Control Sample / Laboratory Control Sample Duplicate Analysis

The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) analyses serve as a monitor of the overall performance in all steps of the sample analysis. The LCS percent recoveries were within the laboratory control limits, indicating that an acceptable level of overall performance was achieved.

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[1] Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999.

REGISTERED COMPANY
ISO 9001

Laboratory Control Sample / Laboratory Control Sample Duplicate Analysis (Cont'd)

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCSD when a matrix spike/matrix spike duplicate was not analyzed. The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by assessing the results of surrogate compound percent recoveries. The sample analyses that violated surrogate acceptance criteria are identified and qualified in Table 2. The surrogate recovery acceptance criteria was met for the remaining samples.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of one (1) field duplicate sample set and one (1) trip blank sample.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample set. Table 3 summarizes the results of the detected analytes in the field duplicate sample set. The data indicate that an adequate level of precision was achieved for the sampling event.

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples. Acetone was reported as detected in a trip blank, but was reported as non-detect in the associated samples, therefore, no qualification was required. No additional target analytes were reported as detected in the trip blank sample.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted. .

TABLE 1

SAMPLE SUMMARY
SEMI-ANNUAL GROUNDWATER MOITORING
HI-MILL MANUFACTURING SITE
HIGHLAND TOWNSHIP, MICHIGAN

Sample Identification	*Sample Location*	*Matrix*	*QC Sample*	*Parameter*
GW-6124-103105-BW-180	SW-26	Water		VOC
GW-6124-103105-BW-181	SW-24	Water		VOC
GW-6124-103105-BW-182	SW-1	Water		VOC
GW-6124-103105-BW-183	SW-1	Water	Duplicate (182)	VOC
TB-6124-184	--	Water	Trip Blank	VOC

VOC - Volatile Organic Compounds
QC - Quality Control

TABLE 2

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO
VIOLATION OF SURROGATE PERCENT RECOVERY CRITERIA
SEMI-ANNUAL GROUNDWATER MONITORING
HI-MILL MANUFACTURING SITE
HIGHLAND TOWNSHIP, MICHIGAN

Analysis	*Parameter*	*Associated Samples*	*Qualifiers*
TCL VOC	All Compounds	TB-6124-184	J/UJ

The sample parameter results should be qualified as:

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample (for detected parameters).

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample (non-detected parameters).

TABLE 3

SUMMARY OF DETECTED ANALYTES IN FIELD DUPLICATE SAMPLE SET
SEMI-ANNUAL GROUNDWATER MONITORING
HI-MILL MANUFACTURING SITE
HIGHLAND TOWNSHIP, MICHIGAN

Analysis	*Parameters*	*Investigative Sample*	*Duplicate Sample*	*RPD*
		GW-6124-110105-BW-182	GW-6124-110105-BW-183	
VOC (µg/L)				
	Trichloroethene	230000	190000	19

RPD - Relative Percent Difference