

ANNUAL REPORT

Prepared for

BLACK & DECKER (U.S.), INC.

Hampstead, Maryland

July 2002

Prepared by

WESTON SOLUTIONS, INC.

West Chester, Pennsylvania 19380-1499

W.O. No. 02501.004.004.0200

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1. INTRODUCTION

This Annual Report has been prepared to meet the requirements of Condition IV.L of the Administrative Consent Order between the State of Maryland Department of the Environment (MDE) and Black & Decker (U.S.) Inc. (April 1995) (Consent Order) and the Addendum to Administrative Consent Order dated 29 June 1995. Specifically, Condition IV.L calls for preparation of an Annual Report containing a summary of the information contained in the Discharge Monitoring Reports (Table 2-3), a summary of all analyses of water samples (Tables 2-4 to 2-7), an explanation of all problems encountered and the manner in which they were resolved (Table 3-1), a performance evaluation of the treatment system (Section 4), and recommendations for continuation of, or changes to, the treatment system (Section 5). This document is one of several that are being prepared in response to the Consent Order; each of these documents are to be submitted to the MDE in accordance with the schedule outlined in the Consent Order. This document will become part of the Administrative Record for the site, which is maintained at the Hampstead Public Library.

2. SITE CHARACTERISTICS

2.1 HYDRAULIC PROPERTIES

In accordance with the Consent Order and the Water Appropriation Permit issued to the Black & Decker (U.S.) Inc. Hampstead, Maryland, facility, the following pumping and water level information is included for the period of July 2001 through June 2002.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1. Copies of the Withdrawal Reports, for the periods of July through December 2001 and January through June 2002, are included in Appendix A.

Water levels (Water Level Monitoring Report) for wells included in the water level monitoring plan are presented in Table 2-2. Based on the June 2002 water levels, a representative groundwater elevation contour map under pumping conditions is presented in Figure 2-1. At the time the data were collected, the extraction wells were pumping at a combined rate of approximately 140 gpm.

2.2 EFFLUENT CHARACTERISTICS

Effluent characteristics of the NPDES discharge points are recorded monthly on Discharge Monitoring Reports (DMRs) and are submitted to MDE, Water Management Administration on a quarterly basis. A summary of the sample results from the DMRs is presented in Table 2-3. DMRs for the period of July 2001 through June 2002 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of July 2001 through June 2002, approximately 219 pounds (lb) of total volatile organic compounds (VOCs) were removed from the groundwater by the extraction and treatment system. In general, the total VOCs were comprised of trichloroethene (TCE) (76%), tetrachloroethene (PCE) (24%). Analytical results of the groundwater collected at the inlet to the air stripper for the period of July 2001 through June 2002 are included in Appendix C.

A summary of the analytical results of the groundwater samples collected from the monitor and extraction wells during the third and fourth quarters of 2001 and the first and second quarters of

Table 2-1
Treatment System Pumping Records
(July 2001 through June 2002)

Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
July 2001	6,816,267
August 2001	6,671,805
September 2001	6,343,554
October 2001	6,242,517
November 2001	6,072,317
December 2001	6,158,888
January 2002	6,097,699
February 2002	5,411,483
March 2002	5,967,831
April 2002	5,735,422
May 2002	5,946,965
June 2002	5,708,746

Table 2-2
Groundwater Elevation Data (July 2001 through June 2002)
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV	TOTAL DEPTH	7/11/01		8/28/01		9/12/01		10/31/01	
			DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	--	DRY	--	DRY	--	DRY	--
EW-2	849.21	110	87.35	761.86	104.50	744.71	102.60	746.61	90.62	758.59
EW-3	846.64	118	72.96	773.68	84.05	762.59	85.61	761.03	93.44	753.20
EW-4	858.01	97.5	--	--	--	--	--	--	--	--
EW-5	864.17	98	87.96	776.21	84.33	779.84	86.11	778.06	87.95	776.22
EW-6	831.98	115	63.47	768.51	69.31	762.67	73.43	758.55	73.59	758.39
EW-7	818.38	78	47.81	770.57	49.83	768.55	50.41	767.97	55.06	763.32
EW-8	811.13	98	67.08	744.05	80.50	730.63	78.43	732.70	78.95	732.18
EW-9	811.35	141	92.81	718.54	92.05	719.30	92.01	719.34	102.43	708.92
EW-10	807.74	NA	49.06	758.68	51.25	756.49	52.61	755.13	53.86	753.88
RFW-1A	864.37	78	51.84	812.53	52.73	811.64	53.61	810.76	53.73	810.64
RFW-1B	864.23	200	51.86	812.37	52.77	811.46	53.63	810.60	53.74	810.49
RFW-2A	857.41	35	14.30	843.11	16.69	840.72	16.73	840.68	16.89	840.52
RFW-2B	857.73	75	14.98	842.75	17.31	840.42	17.41	840.32	17.53	840.20
RFW-3B	839.21	153	33.14	806.07	35.56	803.65	35.67	803.54	36.01	803.20
RFW-4A	830.37	62	37.27	793.10	37.70	792.67	37.94	792.43	39.13	791.24
RFW-4B	830.37	120	37.12	793.25	37.56	792.81	37.88	792.49	39.02	791.35
RFW-5A	817.50	30	DRY	--	DRY	--	DRY	--	DRY	--
RFW-6	785.04	120	3.74	781.30	3.97	781.07	4.11	780.93	3.74	781.30
RFW-7	805.14	29	7.23	797.91	7.66	797.48	7.69	797.45	8.11	797.03
RFW-8	860.07	53	DRY	--	DRY	--	DRY	--	DRY	--
RFW-9	862.02	49	25.91	836.11	27.49	834.53	27.58	834.44	28.15	833.87
RFW-10	852.06	58	DRY	--	DRY	--	DRY	--	DRY	--
RFW-11A	849.32	72	NA	--	NA	--	NA	--	NA	--
RFW-11B	849.62	116	72.68	776.94	76.49	773.13	76.94	772.68	77.04	772.58
RFW-12B	844.87	264	52.82	792.05	53.64	791.23	54.17	790.70	55.93	788.94
RFW-13	849.11	150	62.18	786.93	62.31	786.80	62.21	786.90	63.21	785.90
RFW-14B	812.39	281	49.43	762.96	44.97	767.42	47.46	764.93	48.11	764.28
RFW-16	856.14	41	DRY	--	DRY	--	DRY	--	DRY	--
RFW-17	834.66	60.5	26.08	808.58	27.88	806.78	27.94	806.72	28.04	806.62
RFW-20	842.29	142	34.66	807.63	34.93	807.36	35.21	807.08	37.24	805.05
RFW-21	832.65	102	21.48	811.17	22.60	810.05	23.11	809.54	24.83	807.82
PH-7	805.94	89	30.21	775.73	30.78	775.16	30.79	775.15	31.27	774.67
PH-9	814.94	98	42.18	772.76	43.73	771.21	44.08	770.86	44.46	770.48
PH-11	820.68	78	41.71	778.97	42.77	777.91	43.11	777.57	43.38	777.30
PH-12	828.35	87	47.89	780.46	48.76	779.59	49.38	778.97	49.47	778.88
B-3	803.02	83	6.78	796.24	7.11	795.91	7.49	795.53	8.13	794.89
Amoco	842.29	NA	23.83	818.46	24.19	818.10	24.61	817.68	28.57	813.72
Hamp. Town #22	NA	NA	48.92	--	46.75	--	36.42	--	29.63	--
Pembroke #1	NA	NA	14.86	--	11.37	--	15.12	--	10.87	--
Pembroke #2	NA	NA	NA	--	NA	--	NA	--	NA	--
N. Houcks. Rd.	NA	NA	10.16	--	10.59	--	10.43	--	10.43	--
E. Century St.	NA	NA	--	--	11.36	--	11.29	--	11.29	--
Lwr. Beckleys. Rd.	NA	NA	--	--	57.24	--	57.96	--	56.83	--

Notes: DTW - Depth to water (ft below top of well casing)
ELEV - Groundwater elevation (ft above mean sea level)
NA - Not Available/Not Accessible

Table 2-2
Groundwater Elevation Data (July 2001 through June 2002)
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV	TOTAL DEPTH	11/28/01		12/31/01		1/28/2002		2/20/02	
			DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	--	DRY	--	DRY	--	DRY	--
EW-2	849.21	110	88.88	760.33	93.21	756.00	89.91	759.30	88.80	760.41
EW-3	846.64	118	92.65	753.99	92.32	754.32	93.40	753.24	94.16	752.48
EW-4	858.01	97.5	--	--	--	--	--	--	--	--
EW-5	864.17	98	87.65	776.52	87.60	776.57	86.95	777.22	88.11	776.06
EW-6	831.98	115	73.45	758.53	73.29	758.69	73.50	758.48	76.57	755.41
EW-7	818.38	78	54.65	763.73	53.39	764.99	55.31	763.07	59.16	759.22
EW-8	811.13	98	78.25	732.88	77.74	733.39	77.29	733.84	92.11	719.02
EW-9	811.35	141	106.00	705.35	106.00	705.35	105.00	706.35	106.00	705.35
EW-10	807.74	NA	53.15	754.59	53.01	754.73	53.88	753.86	56.16	751.58
RFW-1A	864.37	78	55.00	809.37	53.77	810.60	55.06	809.31	55.90	808.47
RFW-1B	864.23	200	55.03	809.20	53.79	810.44	55.08	809.15	55.93	808.30
RFW-2A	857.41	35	19.81	837.60	16.94	840.47	19.74	837.67	20.04	837.37
RFW-2B	857.73	75	20.42	837.31	17.43	840.30	20.26	837.47	20.67	837.06
RFW-3B	839.21	153	39.02	800.19	36.17	803.04	39.42	799.79	38.79	800.42
RFW-4A	830.37	62	39.74	790.63	39.78	790.59	40.37	790.00	40.38	789.99
RFW-4B	830.37	120	39.64	790.73	39.63	790.74	40.28	790.09	40.25	790.12
RFW-5A	817.50	30	DRY	--	DRY	--	DRY	--	DRY	--
RFW-6	785.04	120	5.06	779.98	5.12	779.92	6.11	778.93	5.52	779.52
RFW-7	805.14	29	8.86	796.28	8.11	797.03	8.36	796.78	8.82	796.32
RFW-8	860.07	53	DRY	--	DRY	--	DRY	--	DRY	--
RFW-9	862.02	49	29.47	832.55	28.08	833.94	29.42	832.60	29.41	832.61
RFW-10	852.06	58	DRY	--	DRY	--	DRY	--	DRY	--
RFW-11A	849.32	72	NA	--	NA	--	NA	--	NA	--
RFW-11B	849.62	116	77.89	771.73	77.16	772.46	78.13	771.49	77.79	771.83
RFW-12B	844.87	264	55.33	789.54	55.86	789.01	55.78	789.09	55.73	789.14
RFW-13	849.11	150	64.31	784.80	61.98	787.13	64.49	784.62	65.73	783.38
RFW-14B	812.39	281	48.26	764.13	48.17	764.22	48.33	764.06	49.61	762.78
RFW-16	856.14	41	DRY	--	DRY	--	DRY	--	DRY	--
RFW-17	834.66	60.5	30.13	804.53	28.16	806.50	30.41	804.25	30.77	803.89
RFW-20	842.29	142	36.46	805.83	37.41	804.88	36.66	805.63	39.02	803.27
RFW-21	832.65	102	24.41	808.24	24.69	807.96	24.59	808.06	24.85	807.80
PH-7	805.94	89	35.76	770.18	31.28	774.66	36.02	769.92	41.46	764.48
PH-9	814.94	98	47.57	767.37	44.53	770.41	47.63	767.31	49.74	765.20
PH-11	820.68	78	44.24	776.44	43.44	777.24	45.29	775.39	44.89	775.79
PH-12	828.35	87	50.89	777.46	49.57	778.78	51.08	777.27	51.40	776.95
B-3	803.02	83	8.06	794.96	7.84	795.18	7.94	795.08	7.67	795.35
Amoco	842.29	NA	29.13	813.16	25.17	817.12	29.47	812.82	--	--
Hamp. Town #22	NA	NA	38.57	--	27.11	--	26.91	--	16.32	--
Pembroke #1	NA	NA	10.43	--	11.36	--	10.98	--	--	--
Pembroke #2	NA	NA	NA	--	NA	--	NA	--	NA	--
N. Houcks. Rd.	NA	NA	10.59	--	9.34	--	--	--	--	--
E. Century St.	NA	NA	11.21	--	11.61	--	--	--	30.42	--
Lwr. Beckleys. Rd.	NA	NA	56.89	--	58.77	--	57.17	--	--	--

Notes: DTW - Depth to water (ft below top of well casing)
ELEV - Groundwater elevation (ft above mean sea level)
NA - Not Available/Not Accessible

Table 2-2
Groundwater Elevation Data (July 2001 through June 2002)
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV	TOTAL DEPTH	3/13/02		4/29/02		05/15/02		6/28/02	
			DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	--	DRY	--	DRY	--	DRY	--
EW-2	849.21	110	89.40	759.81	92.41	756.80	87.87	761.34	91.26	757.95
EW-3	846.64	118	94.91	751.73	93.62	753.02	90.60	756.04	89.12	757.52
EW-4	858.01	97.5	--	--	--	--	--	--	--	--
EW-5	864.17	98	89.21	774.96	87.94	776.23	91.16	773.01	89.81	774.36
EW-6	831.98	115	78.43	753.55	83.87	748.11	81.75	750.23	79.78	752.20
EW-7	818.38	78	62.06	756.32	63.41	754.97	64.15	754.23	64.38	754.00
EW-8	811.13	98	93.00	718.13	93.83	717.30	91.90	719.23	91.43	719.70
EW-9	811.35	141	105.00	706.35	102.00	709.35	92.15	719.20	98.92	712.43
EW-10	807.74	NA	57.43	750.31	40.93	766.81	40.27	767.47	41.19	766.55
RFW-1A	864.37	78	56.13	808.24	56.26	808.11	56.13	808.24	56.14	808.23
RFW-1B	864.23	200	56.17	808.06	56.29	807.94	56.16	808.07	56.16	808.07
RFW-2A	857.41	35	18.61	838.80	18.96	838.45	19.17	838.24	18.43	838.98
RFW-2B	857.73	75	19.18	838.55	19.32	838.41	19.80	837.93	18.59	839.14
RFW-3B	839.21	153	38.98	800.23	39.27	799.94	38.76	800.45	38.94	800.27
RFW-4A	830.37	62	40.26	790.11	40.41	789.96	40.23	790.14	40.84	789.53
RFW-4B	830.37	120	40.10	790.27	40.26	790.11	40.06	790.31	40.12	790.25
RFW-5A	817.50	30	DRY	--	DRY	--	DRY	--	DRY	--
RFW-6	785.04	120	4.21	780.83	2.19	782.85	5.42	779.62	1.86	783.18
RFW-7	805.14	29	8.22	796.92	7.58	797.56	9.04	796.10	7.43	797.71
RFW-8	860.07	53	DRY	--	DRY	--	DRY	--	DRY	--
RFW-9	862.02	49	30.06	831.96	28.92	833.10	23.89	838.13	29.36	832.66
RFW-10	852.06	58	DRY	--	DRY	--	DRY	--	DRY	--
RFW-11A	849.32	72	NA	--	NA	--	NA	--	NA	--
RFW-11B	849.62	116	77.85	771.77	78.08	771.54	75.52	774.10	77.42	772.20
RFW-12B	844.87	264	55.67	789.20	55.63	789.24	55.89	788.98	55.81	792.74
RFW-13	849.11	150	65.48	783.63	65.11	784.00	66.91	782.20	64.86	784.25
RFW-14B	812.39	281	49.97	762.42	48.67	763.72	51.06	761.33	49.03	763.36
RFW-16	856.14	41	DRY	--	DRY	--	DRY	--	DRY	--
RFW-17	834.66	60.5	30.38	804.28	30.23	804.43	30.36	804.30	30.41	804.25
RFW-20	842.29	142	39.41	802.88	30.49	811.80	39.03	803.26	30.57	810.08
RFW-21	832.65	102	24.88	807.77	24.68	807.97	24.91	807.74	25.02	813.57
PH-7	805.94	89	41.51	764.43	37.94	768.00	37.43	768.51	37.27	768.67
PH-9	814.94	98	49.84	765.10	50.06	764.88	51.56	763.38	50.26	764.68
PH-11	820.68	78	44.76	775.92	45.34	775.34	45.21	775.47	45.63	775.05
PH-12	828.35	87	51.32	777.03	51.67	776.68	53.66	774.69	52.36	775.99
B-3	803.02	83	6.94	796.08	7.24	795.78	7.69	795.33	8.19	794.83
Amoco	842.29	NA	28.73	813.56	--	--	--	--	28.58	813.71
Hamp. Town #22	NA	NA	21.32	--	24.62	--	25.17	--	28.49	--
Pembroke #1	NA	NA	--	--	11.68	--	10.99	--	10.96	--
Pembroke #2	NA	NA	NA	--	NA	--	NA	--	NA	--
N. Houcks. Rd.	NA	NA	10.08	--	10.69	--	10.89	--	9.86	--
E. Century St.	NA	NA	30.63	--	30.82	--	32.76	--	31.64	--
Lwr. Beckleys. Rd.	NA	NA	--	--	58.02	--	58.33	--	57.83	--

Notes: DTW - Depth to water (ft below top of well casing)
ELEV - Groundwater elevation (ft above mean sea level)
NA - Not Available/Not Accessible

**Table 2-3
Effluent Characteristics Summary (July 2001 through June 2002)
Black & Decker
Hampstead, Maryland**

Discharge Number	Parameter	Units	Permit Limits	DMR DATE						
				July 2001	August 2001	September 2001	October 2001	November 2001	December 2001	
001	FLOW	MGD	NA	0.163	0.177	0.145	0.125	0.083	0.122	
		average	MGD	NA	0.386	0.322	0.161	0.136	0.182	
		maximum	ug/l	5	< 5	< 5	< 5	< 5	< 5	
		1,1,1-Trichloroethane	ug/l	5	< 5	< 5	< 5	< 5	< 5	
		Tetrachloroethylene	ug/l	5	< 5	< 5	< 5	< 5	< 5	
		Trichloroethylene	ug/l	5	< 5	< 5	< 5	< 5	< 5	
		Total Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
		maximum	mg/l	15	< 5	< 5	< 5	< 5	< 5	
		Oil & Grease	mg/l	10	NR	< 5	NR	NR	< 5	
		quarterly average	mg/l	10	NR	< 5	NR	NR	< 5	
		pH	STD	6.0	6.96	6.85	6.53	6.60	6.23	6.45
		minimum	STD	8.5	7.25	7.53	7.68	7.04	6.89	6.73
	maximum	mg/l	15	2.4	2.6	2.9	3	6	<2	
	BOD	mg/l	30	10	7.6	7.6	8	9	6	
	maximum	mg/l	20	NR	NR	8.3	NR	NR	2	
	quarterly average	mg/l	20	NR	NR	8.3	NR	NR	2	
101 (Monitoring Point)	FLOW	MGD	NA	0.305	0.260	0.278	0.234	0.222	0.179	
		average	MGD	NA	0.361	0.316	0.304	0.281	0.246	0.187
	maximum	MGD	NA	< 2	< 2	< 2	< 2	< 2	< 2	
	Fecal Coliform	MPN/100ml	200	< 2	< 2	< 2	< 2	< 2	< 2	
201 (Monitoring Point)	FLOW	MGD	NA	0.227	0.215	0.211	0.207	0.202	0.199	
		average	MGD	NA	0.239	0.249	0.231	0.235	0.230	0.220
		maximum	MGD	NA	< 5	< 5	< 5	< 5	< 5	< 5
		1,1,1-Trichloroethane	ug/l	NA	< 5	< 5	< 5	< 5	< 5	< 5
	Tetrachloroethylene	ug/l	NA	< 5	< 5	< 5	< 5	< 5	< 5	
	Trichloroethylene	ug/l	NA	< 5	< 5	< 5	< 5	< 5	< 5	

DMR - Discharge Monitoring Report
NA - Not Applicable
NR - Not Reported

Table 2-3
Effluent Characteristics Summary (July 2001 through June 2002)
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE					
				January 2002	February 2002	March 2002	April 2002	May 2002	June 2002
001	FLOW	MGD	NA	0.116	0.090	0.115	0.250	0.187	0.136
		average							
		maximum							
	1,1,1-Trichloroethane	ug/l	5	<5	<5	<5	<5	<5	<5
	Tetrachloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5
	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5
	Total Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Oil & Grease	mg/l	15	<5	<5	<5	<5	<5	<5
		quarterly average							
pH		mg/l	10	NR	NR	<5	<5	NR	<5
		minimum							
		maximum							
BOD		STD	6.0	6.53	6.51	6.72	6.40	6.44	6.40
		STD	8.5	6.85	6.84	6.99	7.19	6.95	7.62
		mg/l	15	5.2	3.0	3.5	6.0	4.6	4.9
TSS		mg/l	30	5.7	4.4	4.7	10.0	6.4	4.0
		mg/l	20	NR	NR	4.0	NR	NR	6.8
		quarterly average							
101 (Monitoring Point)	FLOW	MGD	NA	0.190	0.199	0.225	0.217	0.260	0.375
		MGD	NA	0.215	0.216	0.233	0.233	0.295	0.443
201 (Monitoring Point)	Fecal Coliform	MPN/100ml	200	<2	<2	<2	<2	<2	<2
	FLOW	MGD	NA	0.197	0.193	0.193	0.191	0.192	0.190
		MGD	NA	0.222	0.213	0.235	0.220	0.235	0.220
1,1,1-Trichloroethane		ug/l	NA	<5	<5	<5	<5	<5	<5
	Tetrachloroethylene	ug/l	NA	<5	<5	<5	<5	<5	<5
	Trichloroethylene	ug/l	NA	<5	<5	<5	<5	<5	<5

DMR - Discharge Monitoring Report
NA - Not Applicable
NR - Not Reported

2001 are included in Tables 2-4, 2-5, 2-6, and 2-7, respectively. As found in earlier sampling events at the Black & Decker facility, TCE and PCE were the VOCs detected at the highest concentrations in the groundwater samples. The highest concentrations of TCE were detected in the groundwater samples collected from wells EW-2, EW-4 and RFW-12B and the highest concentrations of PCE were detected in the groundwater samples collected from well EW-9. VOCs detected at lower concentrations included 1,2-dichloroethene and 1,1,1-trichloroethane. The remainder of VOCs present were detected at levels well below the Federal Maximum Concentration Levels (MCLs). The second quarter 2002 (May 2002) analytical data package is included in Appendix D. Analytical data packages for the remaining quarters are included in the respective Quarterly Groundwater Monitoring Reports.

**Table 2-4
Summary of Groundwater Analytical Results - August 2001
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	EW-1	EW-2 (10)	EW-3 (5)	EW-4 (10)	EW-5 (10)	EW-6	EW-7	EW-8 (1)	EW-9 (5)	EW-9 (DUP) (2)	EW-10	RFW-1A	RFW-1B	RFW-2A
Chloromethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	110 B	53 B	110 B	8 B	9 B	9 B	9 B	62 B	14 B	5 JB	5 JB	5 B	5 JB
Acetone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	2 J	25 U	10 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	50 U	25 U	50 U	5 U	5 U	7	39	25 U	3 J	5 U	5 U	5 U	5 U
Chloroform	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	1 J	25 U	10 U	5 U	5 U	5 U	1 J
Carbon Tetrachloride	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	1300	370	1900	14	8	23	23	6 J	4 J	5 U	5 U	5 U	5
Dibromochloromethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Benzene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	1 J	25 U	10 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	110	12 J	56	33 J	20	150	280	230	11	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Toluene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Styrene	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	50 U	25 U	50 U	5 U	5 U	5 U	5 U	25 U	10 U	5 U	5 U	5 U	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification.
J = Indicates an estimated value.

DUP = Duplicate sample
NS = Not sampled

Table 2-4
Summary of Groundwater Analytical Results - August 2001
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-2B	RFW-3B	RFW-4A	RFW-4B	RFW-4B (DUP)	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10	RFW-11	RFW-12B
Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
Methylene Chloride	ug/L	5 B	3 JB	3 JB	4 JB	3 JB	NS	3 JB	4 JB	NS	3 JB	NS	3 JB	39 B
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
1,1-Dichloroethene	ug/L	5 U	1 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
1,1-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
1,2-Dichloroethene (total)	ug/L	5 U	27	3 J	7	8	NS	2 J	1 J	NS	7	NS	7	24 J
Chloroform	ug/L	5 U	5 U	1 J	1 J	1 J	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
1,2-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
1,1,1-Trichloroethane	ug/L	5 U	3 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Trichloroethene	ug/L	5 U	18	70	22	19	NS	7	21	NS	25	NS	87	430
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Benzene	ug/L	5 U	5 U	2 J	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	10 U	50 U
Tetrachloroethene	ug/L	5 U	17	74	73	73	NS	8	2 J	NS	5 J	NS	2 J	33
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Styrene	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	5 U	25 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification. DUP = Duplicate sample
J = Indicates an estimated value. NS = Not sampled

**Table 2-4
Summary of Groundwater Analytical Results - August 2001
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	RFW-13	RFW-16	RFW-17	RFW-20	RFW-21	Town #22	Town #23	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank
Chloromethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Bromomethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Vinyl Chloride	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Chloroethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Methylene Chloride	ug/L	3 JB	NS	5 JB	5 JB	5 JB	5 JB	4 B	8 B	8 B	NS	5 B
Acetone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Carbon Disulfide	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethene (total)	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Chloroform	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	4 J
2-Butanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
1,1,1-Trichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Carbon Tetrachloride	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Bromodichloromethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloropropane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
cis-1,3-Dichloropropene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Trichloroethene	ug/L	7	NS	5 U	5	5 U	5 U	5 U	5 U	5 U	NS	5 U
Dibromochloromethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1,2-Trichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Benzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Bromoform	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
4-Methyl-2-pentanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
2-Hexanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Tetrachloroethene	ug/L	38	NS	5 U	5 U	5 U	5 U	5 U	3 J	5 U	NS	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Toluene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Chlorobenzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Ethylbenzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Styrene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Xylene (total)	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for q DUP = Duplicate sam
J = Indicates an estimated value.
NS = Not sampled

**Table 2-5
Summary of Groundwater Analytical Results - November 2001
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	EW-1	EW-2 (10)	EW-3 (5)	EW-4 (10)	EW-5 (10)	EW-6	EW-7	EW-8	EW-9 (2)	EW-9 (DUP) (2)	EW-10	RFW-1A	RFW-1B	RFW-2A
Chloromethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	2 J	5 U	5 U	5 U	5 U
Acetone	ug/L	NS	100 U	50 U	100 U	40 J	10 U	10 U	10 U	20 U	8 J	10 U	4 JB	5 JB	47 B
Carbon Disulfide	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	1 J	2 J	10 U	10 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	50 U	25 U	50 U	50 U	5 U	6	39	3 J	3 J	5 U	5 U	5 U	5 U
Chloroform	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	1 J	10 U	10 U	5 U	5 U	5 U	1 J
Carbon Tetrachloride	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	1200	410	1500	440	15	8	24	5 J	5 J	5 U	5 U	5 U	5 J
Dibromochloromethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Benzene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	75	11 J	28 J	15 J	36	21	190	360	370	10	5 U	10 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Toluene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Styrene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification.

J = Indicates an estimated value.

DUP = Duplicate sample

NS = Not sampled

**Table 2-5
Summary of Groundwater Analytical Results - November 2001
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	RFW-2B	RFW-3B	RFW-4A	RFW-4B	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10	RFW-11A	RFW-11B	RFW-12B
Chloromethane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
Methylene Chloride	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	11 JB
Acetone	ug/L	10 U	10 U	13 B	10 U	NS	6 JB	9 JB	NS	9 JB	NS	NS	10 U	50 U
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
1,1-Dichloroethene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
1,1-Dichloroethane	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
1,2-Dichloroethene (total)	ug/L	5 U	24	2 J	7	NS	2 J	5 U	NS	1 J	NS	NS	5 U	13 J
Chloroform	ug/L	5 U	5 U	1 J	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
1,2-Dichloroethane	ug/L	1 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
1,1,1-Trichloroethane	ug/L	1 J	1 J	5 U	5 U	NS	5 U	5 U	NS	1 J	NS	NS	5 U	25 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Trichloroethene	ug/L	5 J	9	61	11	NS	9	21	NS	24	NS	NS	92	780
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Benzene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U	50 U
Tetrachloroethene	ug/L	5 U	10	69	76	NS	9	5 U	NS	3 J	NS	NS	2 J	38
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Toluene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Styrene	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U	25 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification DUP = Duplicate sample
J = Indicates an estimated value.
NS = Not sampled

**Table 2-5
Summary of Groundwater Analytical Results - November 2001
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	RFW-13	RFW-16	RFW-17	RFW-20	RFW-21	Town #22	Town #23	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank
Chloromethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Bromomethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Vinyl Chloride	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Chloroethane	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Methylene Chloride	ug/L	3 JB	NS	3 JB	3 JB	5 U	2 J	3 J	2 J	2 J	NS	5 U
Acetone	ug/L	5 JB	NS	3 JB	6 JB	5 J	10 U	10 U	3 J	10 U	NS	10 U
Carbon Disulfide	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethene (total)	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Chloroform	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
2-Butanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
1,1,1-Trichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Carbon Tetrachloride	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Bromodichloromethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloropropane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
cis-1,3-Dichloropropene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Trichloroethene	ug/L	7	NS	5 U	2 J	5 U	5 U	5 U	5 U	5 U	NS	5 U
Dibromochloromethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1,2-Trichloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Benzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Bromoform	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
4-Methyl-2-pentanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
2-Hexanone	ug/L	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Tetrachloroethene	ug/L	43	NS	5 U	5 U	5 U	5 U	5 U	2 J	5 U	NS	5 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Toluene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Chlorobenzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Ethylbenzene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Styrene	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Xylene (total)	ug/L	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for qu DUP = Duplicate sam
J = Indicates an estimated value. NS = Not sampled

**Table 2-6
Summary of Groundwater Analytical Results - February 2002
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	EW-1	EW-2	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-9	EW-9 (DUP)	EW-10	RFW-1A	RFW-1B
			(10)	(5)	(10)	(10)				(2)	(2)			
Chloromethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Acetone	ug/L	NS	19 JB	50 U	19 JB	39 JB	34 B	4 JB	3 JB	6 JB	4 JB	4 JB	4 JB	4 JB
Carbon Disulfide	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	1 J	10 U	10 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	50 U	25 U	50 U	50 U	5 U	4 J	25	2 J	10 U	5 U	5 U	5 U
Chloroform	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	100 U	50 U	55 J	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	1400	470	1400	520	16	6	19	4 J	4 J	5 U	5 U	5 U
Dibromochloromethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Benzene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Bromoform	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	100 U	50 U	100 U	100 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	65	9 J	18 J	13 J	36	16	160	350	360	5 J	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Toluene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Styrene	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	50 U	25 U	50 U	50 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification DUP = Duplicate sample
J = Indicates an estimated value.
NS = Not sampled

**Table 2-6
Summary of Groundwater Analytical Results - February 2002
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	RFW-2A	RFW-2B	RFW-3B	RFW-4A	RFW-4A (DUP)	RFW-4B	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10	RFW-11A	RFW-11B
Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Methylene Chloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	3 J
Acetone	ug/L	3 JB	4 JB	3 JB	2 JB	3 JB	4 JB	NS	6 JB	3 JB	NS	4 JB	NS	NS	4 JB
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,1-Dichloroethene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,1-Dichloroethane	ug/L	5 U	5 U	1 J	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,2-Dichloroethene (total)	ug/L	5 U	5 U	18	1 J	1 J	4 J	NS	5 U	1 J	NS	5 J	NS	NS	5 U
Chloroform	ug/L	5 U	5 U	5 U	1 J	1 J	1 J	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,2-Dichloroethane	ug/L	5 U	1 J	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
1,1,1-Trichloroethane	ug/L	2 J	1 J	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	2 J	NS	NS	5 U
Carbon Tetrachloride	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Bromodichloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,2-Dichloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
cis-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Trichloroethene	ug/L	6	5 J	2 J	74	73	29	NS	7	12	NS	25	NS	NS	120
Dibromochloromethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,1,2-Trichloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Benzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Trans-1,3-Dichloropropene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Bromoform	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
4-Methyl-2-pentanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Tetrachloroethene	ug/L	5 U	5 U	8	71	75	85	NS	7	5 U	NS	6	NS	NS	2 J
1,1,2,2-Tetrachloroethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Toluene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Chlorobenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Ethylbenzene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Styrene	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Xylene (total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification. DUP = Duplicate sample
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**Table 2-6
Summary of Groundwater Analytical Results - February 2002
Black & Decker
Hampstead, Maryland**

PARAMETER	Units (S)										Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank		
	RFW-12B	RFW-13	RFW-16	RFW-17	RFW-20	RFW-21	Town #22	Town #23	Town #23	Town #23						
Chloromethane	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
Bromomethane	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
Vinyl Chloride	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
Chloroethane	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
Methylene Chloride	40	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Acetone	13 J	5 J	NS	3 JB	5 JB	5 JB	5 JB	3 JB	8 JB	2 JB	3 JB	5 U	NS	2 JB	NS	2 JB
Carbon Disulfide	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,1-Dichloroethene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,1-Dichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,2-Dichloroethene (total)	12 J	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Chloroform	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,2-Dichloroethane	25 U	5 U	NS	2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
2-Butanone	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
1,1,1-Trichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Carbon Tetrachloride	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Bromodichloromethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,2-Dichloropropane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
cis-1,3-Dichloropropene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Trichloroethene	530	6	NS	5 U	3 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Dibromochloromethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,1,2-Trichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Benzene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Trans-1,3-Dichloropropene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Bromoform	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
4-Methyl-2-pentanone	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
2-Hexanone	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	NS	10 U
Tetrachloroethene	24 J	39	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
1,1,2,2-Tetrachloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Toluene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Chlorobenzene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Ethylbenzene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Styrene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U
Xylene (total)	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	NS	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantific DUP = Duplicate sample
J = Indicates an estimated value.
NS = Not sampled

**Table 2-7
Summary of Groundwater Analytical Results - May 2002
Black & Decker
Hampstead, Maryland**

PARAMETER	Units	EW-1	EW-2 (10)	EW-3 (5)	EW-4 (10)	EW-5 (5)	EW-6	EW-7	EW-8	EW-9 (2)	EW-9 (DUP) (2)	EW-10	RFW-1A	RFW-1B
Chloromethane	ug/L	NS	100 U	50 U	100 U	50 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	100 U	50 U	100 U	50 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	100 U	50 U	100 U	50 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	100 U	50 U	100 U	50 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	90 B	38 B	76 B	190 B	1 B	1 B	5 U	7 B	7 B	7 B	5 U	5 U
Acetone	ug/L	NS	180 B	36 B	75 B	49 JB	9 B	10 B	13 B	16 B	11 B	19 B	11 B	11 B
Carbon Disulfide	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	1	1	10 U	10 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	50 U	25 U	50 U	25 U	1	8	31	3	3	5 U	5 U	5 U
Chloroform	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	100 U	50 U	55 J	50 U	10 U	10 U	10 U	20 U	20 U	10 U	3 J	10 U
1,1,1-Trichloroethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	970	360	1100	470	18	9	17	3	3	5 U	1 J	5 U
Dibromochloromethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Benzene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Bromoform	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	100 U	50 U	100 U	50 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	100 U	50 U	100 U	50 U	10 U	10 U	10 U	20 U	20 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	72	10	24	17 J	40	23	120	260	260	5	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Toluene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Styrene	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	50 U	25 U	50 U	25 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantification DUP = Duplicate sample
J = Indicates an estimated value.
NS = Not sampled

**Table 2-7
Summary of Groundwater Analytical Results - May 2002
Black & Decker
Hampstead, Maryland**

PARAMETER	Units													
	RFW-2A	RFW-2B	RFW-3B	RFW-4A	RFW-4B	RFW-4B (DUP)	RFW-5A	RFW-6	RFW-7	RFW-8	RFW-9	RFW-10	RFW-11A	RFW-11B
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	6	NS	NS	6
Acetone	12 B	35 B	26 JB	15 B	20 B	20 B	NS	17 B	22 B	NS	21 B	NS	NS	16 B
Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	1 J	NS	NS	5 U
1,2-Dichloroethene (total)	5 U	5 U	23	2 J	5 J	5	NS	1 J	2 J	NS	6	NS	NS	5 U
Chloroform	5 U	5 U	5 U	1 J	1 J	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
1,1,1-Trichloroethane	2 J	5 U	3 J	5 U	5 U	5 U	NS	5 U	5 U	NS	1 J	NS	NS	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Trichloroethene	8	2 J	16	60	19	18	NS	9	21	NS	20	NS	NS	94
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U	10 U	NS	10 U	NS	NS	10 U
Tetrachloroethene	5 U	5 U	15	63	49	56	NS	8	5 U	NS	8	NS	NS	2 J
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Toluene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U
Xylene (total)	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS	NS	5 U

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J = Indicates an estimated value. NS = Not sampled

**Table 2-7
Summary of Groundwater Analytical Results - May 2002
Black & Decker
Hampstead, Maryland**

PARAMETER	Units (5)										Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank
	RFW-12B	RFW-13	RFW-16	RFW-17	RFW-20	RFW-21	Town #22	Town #23	Leister Dairy	Leister Res. #1				
Chloromethane	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Bromomethane	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Vinyl Chloride	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Chloroethane	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Methylene Chloride	59	7	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	2 B
Acetone	49 JB	13 B	NS	8 JB	14 B	7 JB	13 B	15 B	5 U	5 U	9 JB	15 B	NS	8 B
Carbon Disulfide	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1-Dichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethene (total)	14 J	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Chloroform	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
2-Butanone	50 U	10 U	NS	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
1,1,1-Trichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Carbon Tetrachloride	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Bromodichloromethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,2-Dichloropropane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
cis-1,3-Dichloropropene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Trichloroethene	510	6	NS	5 U	2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Dibromochloromethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
1,1,2-Trichloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Benzene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Trans-1,3-Dichloropropene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Bromoform	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
4-Methyl-2-pentanone	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
2-Hexanone	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Tetrachloroethene	27	37	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 J	5 U	NS	5 U
1,1,2,2-Tetrachloroethane	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Toluene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	4
Chlorobenzene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Ethylbenzene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Styrene	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U
Xylene (total)	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantific DUP = Duplicate sample
J = Indicates an estimated value. NS = Not sampled

3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM

A summary of the maintenance activities that were undertaken with the extraction and treatment system during the reporting period (July 2001 through June 2002) is provided in Table 3-1. This table is comprehensive in summarizing significant maintenance events or activities, while not including those activities considered unworthy of note (such as replacement of light bulbs, lubrication of moving parts, as appropriate, or other routine activities).

Table 3-1
Treatment System Maintenance Activities (July 2001 through June 2002)
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
July 2001 -June 2002	No major maintenance activities were reported this past year.

4. TREATMENT SYSTEM PERFORMANCE EVALUATION

During the reporting period of July 2001 to June 2002, depth-to-water measurements were collected in all site monitor wells on a monthly basis. Each month, a groundwater elevation contour map was constructed to verify that the groundwater extraction system was providing a hydraulic barrier to prevent any groundwater contamination from migrating off-site. Pumping rates were adjusted to ensure that hydraulic control was being maintained across the site. Significant drawdown has been observed in both shallow and deeper monitor wells throughout the long-term pumping of the extraction well system, indicating that considerable interconnection exists between the shallow and deeper groundwater.

As evidenced by the groundwater elevation contour map (Figure 2-1), groundwater flow is still principally to the southwest, with some components to the south and east. However, depressions in the groundwater surface, due to the pumping of the extraction wells, are evident on the map and the flow lines indicate that direction of groundwater flow is toward the extraction wells. The system as presently configured is successful in meeting the objective of capturing on-site groundwater, thereby eliminating the potential off-site migration of contaminated groundwater. The system is also successful in treating the collected groundwater to remove the VOCs from the water. The laboratory analysis results of the treated discharge water do not show the presence of VOCs.

5. RECOMMENDATIONS

As discussed in Section 4, the treatment system has created a hydraulic boundary that prevents the off-site migration of groundwater. The extraction system will continue to operate as currently configured to pump and treat contaminated groundwater. Depth-to-water measurements will continue to be collected on a monthly basis in all site monitor wells to construct a groundwater elevation contour map for the site. The groundwater elevation contour map will be used to verify that the required area of groundwater capture is being maintained. If necessary, pumping rates will be adjusted to maintain groundwater capture due to seasonal fluctuations in groundwater elevations. The treatment system will also continue to operate as currently configured, as data collected have proven that the treatment system is fully effective in removing VOCs from the extracted groundwater.

**APPENDIX A
WITHDRAWAL REPORTS**

APPENDIX B
DISCHARGE MONITORING REPORTS

APPENDIX C
GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS

APPENDIX D
GROUNDWATER ANALYTICAL DATA PACKAGE (MAY 2002)
