

Quarterly Groundwater Monitoring Report

Prepared for

Black & Decker (U.S.) Inc.

Hampstead, Maryland

April 2011

Prepared by

WESTON SOLUTIONS, INC.

West Chester, Pennsylvania 19380-1499

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1. INTRODUCTION

This Groundwater Monitoring Report has been prepared to meet the requirements of Condition IV.G 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). Specifically, Condition IV.G calls for preparation of a Groundwater Monitoring Report containing the following information for each reporting period:

- The quantities of groundwater pumped, treated, and discharged.
- The calculation of quantities of contaminants removed from groundwater.
- A summary of all sampling analyses.
- An explanation of all operational or other problems encountered, and the manner in which each problem was resolved.
- Copies of all reports submitted to the Department of Natural Resources in conjunction with the Groundwater Appropriations Permit.
- Recommendations for changes to the Interim Groundwater Treatment System.

This document is one of several which 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 and Decker (U.S.) Inc. Hampstead, Maryland, facility, the following pumping and water level information is included for the period of January through March 2011.

Pumping records showing the total gallons pumped per month of treatment system operation are presented in Table 2-1. The complete groundwater treatment system pumping records are included in Appendix A.

Monthly water levels for wells included in the water level monitoring plan are presented in Table 2-2. For the reporting period of January through March 2011, the extraction wells were pumping at an average combined rate of approximately 168 gallons per minute (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 January through March 2011 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of January through March 2011, approximately 12.6 pounds of total volatile organic compounds (VOCs) were removed from the groundwater by the extraction and treatment system. In general, the total VOCs removed from the groundwater were comprised primarily of trichloroethene (TCE) (81.5%) and tetrachloroethene (PCE) (18.5%). Analytical results of the groundwater collected from the air stripper for the period of January through March 2011 are included in Appendix C.

A summary of the analytical results from the third quarter (February 2011) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete

Table 2-1
Treatment System Pumping Records - 1st Quarter 2011
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
January 2011	6,742,185
February 2011	5,999,366
March 2011	6,650,638

Table 2-2
Groundwater Elevation Data - 1st Quarter 2011
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	1/18/2011		2/25/2011		3/29/2011	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	92.06	757.15	91.94	757.27	92.04	757.17
EW-3	846.64	118	83.11	763.53	85.80	760.84	86.00	760.64
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	91.26	772.91	86.72	777.45	91.84	772.33
EW-6	831.98	115	103.10	728.88	102.80	729.18	102.90	729.08
EW-7	818.38	78	58.63	759.75	63.12	755.26	63.90	754.48
EW-8	811.13	98	91.43	719.70	91.72	719.41	91.60	719.53
EW-9	811.35	141	102.00	709.35	103.00	708.35	103.00	708.35
EW-10	807.74	INA	54.36	753.38	53.35	754.39	54.74	753.00
RFW-1A	864.37	78	53.67	810.70	54.48	809.89	54.63	809.74
RFW-1B	864.23	200	53.69	810.54	54.52	809.71	54.65	809.58
RFW-2A	857.41	35	17.81	839.60	17.29	840.12	17.36	840.05
RFW-2B	857.73	75	18.12	839.61	17.95	839.78	18.11	839.62
RFW-3B	839.21	153	36.49	802.72	38.65	800.56	35.22	803.99
RFW-4A	830.37	62	38.79	791.58	38.66	791.71	38.49	791.88
RFW-4B	830.37	120	38.73	791.64	38.55	791.82	38.43	791.94
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	3.78	781.26	4.22	780.82	3.94	781.10
RFW-7	805.14	29	7.41	797.73	5.92	799.22	6.98	798.16
RFW-8	860.07	56	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	28.13	833.89	27.56	834.46	27.83	834.19
RFW-10	852.06	58	DRY	NC	DRY	NC	DRY	NC
RFW-11A	849.32	72	Damaged	NC	Damaged	NC	Damaged	NC
RFW-11B	849.62	116	65.66	783.96	65.88	783.74	64.93	784.69
RFW-12B	844.87	264	53.54	791.33	53.88	790.99	54.51	790.36
RFW-13	849.11	150	59.73	789.38	65.62	783.49	57.83	791.28
RFW-14B	812.39	281	54.65	757.74	58.14	754.25	54.13	758.26
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	26.17	808.49	27.54	807.12	26.01	808.65
RFW-20	842.49	142	35.53	806.96	36.31	806.18	35.44	807.05
RFW-21	832.65	102	22.11	810.54	22.65	810.00	22.42	810.23
PH-7	805.94	89	35.61	770.33	33.68	772.26	34.89	771.05
PH-9	814.94	98	45.08	769.86	51.91	763.03	44.38	770.56
PH-11	820.68	78	47.83	772.85	49.63	771.05	48.06	772.62
PH-12	828.35	87	48.52	779.83	50.24	778.11	48.81	779.54
B-3	803.02	83	10.43	792.59	9.96	793.06	10.09	792.93
Amoco	842.29	INA	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	INA	3.31	801.65	4.71	800.25	4.70	800.26
Pembroke #1	INA	INA	11.41	NC	11.52	NC	11.20	NC
Pembroke #2	INA	INA	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	INA	INA	10.36	NC	10.70	NC	10.53	NC
E. Century St.	INA	INA	19.21	NC	19.41	NC	19.20	NC
Lwr. Beckleys. Rd.	INA	INA	56.11	NC	56.48	NC	54.83	NC

NA - Not Available/Not Accessible
NC - Not Calculable
INA - Information not available
PC - Pump Cycles

Table 2-3
Effluent Characteristics Summary - 1st Quarter 2011
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				January 2011	February 2011	March 2011	
001	FLOW	average	MGD	NA	0.119	0.184	0.190
		maximum	MGD	NA	0.226	0.669	1.273
	1,1,1-Trichloroethane	ug/l	5	< 1	< 1	< 1	
	Tetrachloroethylene	ug/l	5	< 1	< 1	< 1	
	Trichloroethylene	ug/l	5	< 1	< 1	< 1	
	Total Residual Chlorine	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	
	Oil & Grease	maximum	mg/l	15	< 5	< 5	< 5
		monthly average	mg/l	10	< 5	< 5	< 5
	pH	minimum	STD	6.0	6.10	6.10	6.20
		maximum	STD	8.5	7.10	6.70	6.90
	BOD	mg/l	15	0.0	6.0	4.0	
	TSS	maximum	mg/l	30	0.0	5.0	6.0
monthly average		mg/l	20	0.0	5.0	6.0	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.330	0.284	0.178
		maximum	MGD	NA	0.401	0.353	0.338
	Fecal Coliform	MPN/100ml	200	13.0	1.0	1.0	
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.216
		maximum	MGD	NA	NR	NR	0.273
	1,1,1-Trichloroethane	ug/l	NA	NR	NR	< 1	
	Tetrachloroethylene	ug/l	NA	NR	NR	< 1	
	Trichloroethylene	ug/l	NA	NR	NR	< 1	

DMR - Discharge Monitoring Report

NA - Not Applicable

NR - Not Reported

Table 2-4

Summary of Groundwater Analytical Results - February 2011
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
Chloromethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	0.3 J	0.4 J	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	0.7 J	0.8 J	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	5.1	1 U	1 U	1 U	0.5 J	7.2	25	0.5 J	0.5 J	1 U
Chloroform	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	ug/L	NS	270	68	560	130	6.7	1 U	1 U	0.9	0.9	1 U
Dibromochloromethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	ug/L	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	ug/L	NS	47	1.9	10	3.4	12	10	49	100	100	1.4
1,1,2,2-Tetrachloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylene (total)	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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

J = Indicates an estimated value.

NS = Not Sampled

Table 2-4

Summary of Groundwater Analytical Results - February 2011
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-1A	RFW-1B	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
Chloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Bromomethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Vinyl Chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Chloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Methylene Chloride	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NS	2 U	2 U	NS	2 U	NS
Acetone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
Carbon Disulfide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1.1	NS
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
1,2-Dichloroethene (total)	ug/L	1 U	1 U	1 U	1 U	2.8	0.9 J	0.9 J	3.7	NS	1.1	1 U	NS	13	NS
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U	1.1	1	0.5 J	NS	1 U	1 U	NS	1 U	NS
1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
2-Butanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Carbon Tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Bromodichloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Trichloroethene	ug/L	1 U	1 U	1.5	1.7	0.6	26	24	10	NS	4.1	0.8	NS	12	NS
Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Benzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Trans-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	NS	5 U	NS
Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U	0.9 J	18	16	20	NS	3.6	1 U	NS	5.5	NS
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Chlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS
Xylene (total)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	NS	1 U	NS

Notes: DUP = Duplicate sample
 NS = Not sampled

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

Table 2-4

Summary of Groundwater Analytical Results - February 2011
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-11A	RFW-11B	RFW-12B	RFW-13	RFW-16	RFW-17	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank	RFW-20	RFW-21	Town #22	Town #23	Trip Blank
		USEPA drinking water method 524.2														
Chloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	2 U	2 U	2 U	NS	2 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	6.2	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/L	NS	1 U	0.4 J	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	ug/L	NS	1 U	2.1	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	0.4 J	0.5 U	0.5 U	0.37 J	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	NS	6.1	170	1.6	NS	1 U	ABD	ABD	ABD	1 U	0.67	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	ug/L	NS	1 U	1 U	1 U	NS	1.9	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	5 U	5 U	5 U	NS	5 U	ABD	ABD	ABD	5 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	1 U	9.9	14	NS	0.4 J	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	ug/L	NS	1 U	1 U	1 U	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes: Samples from wells RFW-20 & 21, Town-22&23 are analyzed with the USEPA drinking water method 524.2 at the request of the MDE Source Protection and Appropriation Division. Samples from all of the other wells are analyzed with USEPA Method 8260.

NS = Not sampled

U = Compound was analyzed but not detected.

ABD = Well has been abandoned

analytical data package is included in Appendix D.

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 concentration of TCE was detected in the groundwater samples collected from wells EW-2 and EW-4 and the highest concentration of PCE was detected in the groundwater sample collected from wells EW-8 and EW-9. The remainder of VOCs present were detected at levels below the Federal Maximum Contaminant Levels (MCL).

3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM

A summary of the maintenance activities which were undertaken with the extraction and treatment system during the reporting period (January through March 2011) 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 - 1st Quarter 2011
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
Jan-11	Alarm at the stripper. EW -3 tripped off. The heater in EW-3 was not working, a temporary heater was installed and the well is put back online.
Jan-11	The heating elements were replaced in the well house for EW-3, pumping of the well was not disrupted during this repair.
Feb-11	Alarm at the stripper due to a high column blower failure due to ice build up on the blower intake. The ice was removed and the system was reset everything is okay.
Feb-11	Alarm at stripper, EW-2 went down due to a faulty heater. The heating elements were replaced, the well was reset. The well is back online.
Feb-11	Alarm at the stripper due to a high column blower failure. The air supply to the dumping valve was turned off. Turned the air supply back on, the system was reset everything is okay.

4. RECOMMENDATIONS

For the reporting period of January through March 2011, the treatment system continued to create a hydraulic boundary preventing 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
GROUNDWATER TREATMENT SYSTEM PUMPING RECORDS
(JANUARY – MARCH 2011)

MARYLAND DEPARTMENT of the ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION, 1800 WASHINGTON BLVD, BALTIMORE, MD 21230

Operated By:
Maryland Environmental Service
259 Najoles Road, Millersville MD

Facility: BTR Capital Group
Address: 626 Hanover Pike, Hampstead Maryland
Additional Op's & cert # - Dorrance Jones 0763, Gary Dickerson 0782

Permit Number: 02-DP-0022
Superintendent: Earle Villarreal

Certification # 1017

Month: January
Year: 2011

Date	Appearance	Discharge MGD	pH su	Cl ₂ mg/l	Final Effluent outfall:001						Outfall 101					Outfall 201			Operator		
					Tetrahydroxyfuran ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l	BOD ₅ mg/l	TSS mg/l	O&G mg/l	Flow MGD	Fecal mpn	Basin Inches	Alum. Opd	Hypochlorite Gpd	Post Cl ₂ mg/l	Tetrahydroxyfuran ug/l	1,1,1-Trichloroethane ug/l		Trichloroethene ug/l	Discharge mgd
1	Clear	0.10500									0.290000		0.0	1.0	0.8	5.0				0.210580	Djones
2	Clear	0.10300									0.401000		0.0	3.0	0.8	5.0				0.191905	Djones
3	Clear	0.14000									0.310000		0.0	5.0	0.8	5.0				0.271937	Aphillips
4	Clear	0.07900	6.06	0.00							0.345000	< 1.8	0.0	5.0	0.8	5.0				0.201325	Gdickerson
5	Clear	0.09800									0.333000		0.0	1.0	0.2	5.0				0.227566	Djones
6	Clear	0.09900	6.10	0.00							0.366000		0.0	1.0	0.2	5.0				0.208779	Gdickerson
7	Clear	0.10800									0.330000		0.0	1.0	1.0	5.0				0.231481	Djones
8	Clear	0.10600									0.300000		0.0	1.0	1.0	5.0				0.199072	Fschmidt
9	Clear	0.10900									0.397000		0.0	1.0	1.0	5.0				0.194765	Fschmidt
10	Clear	0.09900	6.45	0.00	< 1.00	< 1.00	< 1.00	< 2.0	< 4.0	< 5.0	0.321000	13.0	0.0	1.0	1.0	5.0				0.272940	Djones
11	Clear	0.09900									0.321000		0.0	1.0	1.0	5.0				0.204976	Brusselman
12	Clear	0.14500									0.323000		0.0	1.0	1.0	5.0				0.227238	Ppitts
13	Clear	0.12200									0.361000		0.0	3.0	1.0	5.0				0.202569	Djones
14	Clear	0.10000	6.10	0.00							0.354000		0.0	5.0	1.0	5.0				0.234117	Djones
15	Clear	0.10700									0.333000		0.0	2.0	1.0	5.0				0.204817	Gdickerson
16	Clear	0.10600									0.351000		0.0	1.0	1.0	5.0				0.212408	Gdickerson
17	Clear	0.10000									0.327000		0.0	1.0	1.0	5.0				0.229295	Brusselman
18	Clear	0.17000	6.44	0.00							0.335000		0.0	1.0	1.0	5.0				0.185371	Ppitts
19	Clear	0.18800									0.355000	4.5	0.0	1.0	1.0	5.0	< 1.0	< 1.0	< 1.0	0.238950	Djones
20	Clear	0.22600	6.30	0.00							0.359000		0.0	1.0	1.0	5.0				0.216730	Djones
21	Clear	0.14000									0.370000		0.0	1.0	1.0	5.0				0.237219	Aphillips
22	Clear	0.10900									0.319000		0.0	1.0	1.0	5.0				0.218549	Aphillips
23	Clear	0.09200									0.306000		0.0	1.0	1.0	5.0				0.208087	Aphillips
24	Clear	0.08400									0.313000		0.0	5.0	1.0	5.0				0.214124	Djones
25	Clear	0.08900	6.40	0.00							0.312000	< 1.8	0.0	5.0	1.0	5.0				0.200542	Ppitts
26	Clear	0.09900									0.283000		0.0	5.0	1.0	5.0				0.212609	Ppitts
27	Clear	0.14000									0.364000		0.0	1.0	1.0	5.0				0.209195	Ppitts
28	Clear	0.16200	6.20	0.00							0.244000		0.0	1.0	1.0	5.0				0.247499	Gdickerson
29	Clear	0.12600									0.306000		0.0	1.0	1.0	5.0				0.170848	Djones
30	Clear	0.12200									0.318000		0.0	1.0	1.0	5.0				0.212780	Djones
31	Clear	0.12300	7.08	0.00							0.274000		0.0	1.0	1.0	5.0				0.243912	Fschmidt
Total		3.69500									10.221000									6.742185	
Average		0.11919	6.3	<0.10	0	0	0	2	0	0	0.329710	5	0.0	1.9	0.9	5.0	0	0	0	0.217490	
Minimum		0.07900	6.1	0.00	0	0	0	2	0	0	0.244000	1	0.0	1.0	0.2	5.0	0	0	0	0.170848	
Maximum		0.22600	7.1	<0.10	0	0	0	0	0	0	0.401000	13	0.0	5.0	1.0	5.0	0	0	0	0.272940	MOR:5-11-09

COMMENTS: