

Quarterly Groundwater Monitoring Report

Prepared for
Black & Decker (U.S.) Inc.

Hampstead, Maryland

April 2009

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 2009.

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 2009, the extraction wells were pumping at an average combined rate of approximately 154 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 2009 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of January through March 2009, approximately 17.9 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) (81.4%) and tetrachloroethene (PCE) (18.6%). Analytical results of the groundwater collected from the air stripper for the period of January through March 2009 are included in Appendix C.

A summary of the analytical results from the third quarter (February 2009) 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 2009
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
January 2009	6,143,140
February 2009	5,882,030
March 2009	6,039,130

Table 2-2
Groundwater Elevation Data - 1st Quarter 2009
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	1/22/2009		2/25/2009		3/18/2009	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NC	DRY	NC	DRY	NC
EW-2	849.21	110	68.90	780.31	78.11	771.10	79.54	769.67
EW-3	846.64	118	90.41	756.23	77.31	769.33	81.13	765.51
EW-4	858.01	97.5	PC	NC	PC	NC	PC	NC
EW-5	864.17	98	63.42	800.75	71.25	792.92	69.41	794.76
EW-6	831.98	115	102.91	729.07	103.26	728.72	101.87	730.11
EW-7	818.38	78	72.69	745.69	71.79	746.59	70.43	747.95
EW-8	811.13	98	90.60	720.53	91.41	719.72	90.84	720.29
EW-9	811.35	141	104.78	706.57	104.00	707.35	102.00	709.35
EW-10	807.74	INA	64.31	743.43	55.88	751.86	56.11	751.63
RFW-1A	864.37	78	47.68	816.69	49.39	814.98	50.46	813.91
RFW-1B	864.23	200	47.74	816.49	49.45	814.78	50.51	813.72
RFW-2A	857.41	35	17.94	839.47	16.06	841.35	15.94	841.47
RFW-2B	857.73	75	18.47	839.26	16.72	841.01	16.36	841.37
RFW-3B	839.21	153	39.21	800.00	37.65	801.56	36.89	802.32
RFW-4A	830.37	62	39.57	790.80	41.86	788.51	39.47	790.90
RFW-4B	830.37	120	39.46	790.91	41.71	788.66	39.26	791.11
RFW-5A	817.50	30	DRY	NC	DRY	NC	DRY	NC
RFW-6	785.04	120	4.61	780.43	5.81	779.23	5.04	780.00
RFW-7	805.14	29	7.49	797.65	7.18	797.96	7.49	797.65
RFW-8	860.07	56	DRY	NC	DRY	NC	DRY	NC
RFW-9	862.02	49	28.11	833.91	27.11	834.91	28.40	833.62
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	67.40	782.22	67.43	782.19	66.84	782.78
RFW-12B	844.87	264	51.32	793.55	50.86	794.01	50.39	794.48
RFW-13	849.11	150	66.60	782.51	66.87	782.24	66.91	782.20
RFW-14B	812.39	281	46.30	766.09	50.45	761.94	50.61	761.78
RFW-16	856.14	41	DRY	NC	DRY	NC	DRY	NC
RFW-17	834.66	60.5	28.73	805.93	28.16	806.50	28.33	806.33
RFW-20	842.49	142	33.34	809.15	36.09	806.40	36.16	806.33
RFW-21	832.65	102	23.86	808.79	23.00	809.65	22.94	809.71
PH-7	805.94	89	41.31	764.63	33.81	772.13	34.04	771.90
PH-9	814.94	98	50.08	764.86	56.80	758.14	55.41	759.53
PH-11	820.68	78	51.86	768.82	51.26	769.42	50.94	769.74
PH-12	828.35	87	52.93	775.42	54.04	774.31	53.90	774.45
B-3	803.02	83	8.94	794.08	9.22	793.80	8.74	794.28
Amoco	842.29	INA	NA	NC	NA	NC	NA	NC
Hamp. Town #22	804.96	INA	18.12	786.84	16.99	787.97	13.84	791.12
Pembroke #1	INA	INA	12.88	NC	11.73	NC	12.11	NC
Pembroke #2	INA	INA	Damaged	NC	Damaged	NC	Damaged	NC
N. Houcks. Rd.	INA	INA	10.12	NC	10.26	NC	9.44	NC
E. Century St.	INA	INA	21.19	NC	19.20	NC	21.20	NC
Lwr. Beckleys. Rd.	INA	INA	55.10	NC	54.73	NC	54.81	NC

NA - Not Available/Not Accessible

NC - Not Calculable

INA - Information not available

PC - Pump Cycles

Table 2-3
Effluent Characteristics Summary - 1st Quarter 2009
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				January 2009	February 2009	March 2009	
001	FLOW	average	MGD	NA	0.184	0.141	0.081
		maximum	MGD	NA	0.233	0.194	0.199
	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	7	7.0
		quarterly average	mg/l	10	< 5	7	7.0
	pH	minimum	STD	6.0	6.40	6.40	6.40
		maximum	STD	8.5	6.90	6.70	7.30
	BOD	mg/l	15	2.0	0.0	4.0	
TSS	maximum	mg/l	30	4.0	0.0	10.0	
	quarterly average	mg/l	20	4.0	0.0	10.0	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.329	0.344	0.317
		maximum	MGD	NA	0.422	0.441	0.398
	Fecal Coliform	MPN/100ml	200	2.0	2.0	1.0	
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.201
		maximum	MGD	NA	NR	NR	0.255
	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 2009
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	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	NS	1 U	1 U	1 U	1 U	1 U	1 U	1.1	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	3.6	2.3	1 U	1 U	1 U	7.1	28	1 U	1 U	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	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	420	110	930	200	13	5.7	13	1.5	1.5	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	65	3.4	21	12	21	12	81	170	190	1.7
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 2009
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-1A	RFW-1B	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
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	1.2	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	4	1 U	3.7	3.9	NS	1 U	1 U	NS	14	NS
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U	1.1	1.8	2	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	1.5	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	1.4	1.9	3.1	24	52	57	NS	3.4	5.1	NS	16	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	5 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	2.5	16	81	91	NS	3.3	1 U	NS	6.8	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 2009
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	0.26 J	0.5 U
Acetone	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
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	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-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	2.9	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	1 U	0.5 U	0.5 U	0.33 J	0.44 J	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	0.33 J	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	11	450	4.4	NS	1 U	ABD	ABD	ABD	1 U	0.7	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	0.36 J	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 U	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	0.26 J	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	44	20	NS	1 U	ABD	ABD	ABD	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1,2-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 RFW-12B and EW-4 and the highest concentration of PCE was detected in the groundwater sample collected from wells RFW-4B 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 2009) 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 2009
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
Jan-09	EW - 5 will only run on local setting, replaced 2 relays. Well is back on line.
Jan-09	Broken valve in air stripper, causing the air stripper to be shut down for 5 hours. The valve was replaced, the stripper is back online.
Jan-09	Replaced the heater in EW-10.
Feb-09	Alarm at the stripper due to a high wet well. The system was reset everything is okay.
Feb-09	Repair the auto dialer at the stripper.
Mar-09	EW - 5 went down. Replaced the heaters in the contactor. Also the pump motor was shorted out. A new motor was installed, the well was bleached and is back online.
Mar-09	Alarm at the stripper due to a high column blower failure. The system was reset everything is okay.
Mar-09	EW-6 went down. Replaced a bad relay. The well is now back online.

4. RECOMMENDATIONS

For the reporting period of January through March 2009, 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 2009)

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, Scott Steedman 0764, Gary Dickerson 0782, Gary Kesselring 1962

Permit Number: 02-DP-0022

Operator: Earle Villarreal

Certification # 1017

Month: January

Year: 2009

Date	Appearance	Discharge MGD	pH su	Cl2 mg/l	Final Effluent outfall 001						Outfall 101						Outfall 201			Comments	
					Tetrachloroethylene 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 Gpd	Hypochlorite Gpd	Post Cl2 mg/l	Tetrachloroethylene ug/l	1,1,1-Trichloroethane ug/l	Trichloroethene ug/l		Discharge mgd
1	clear	0.0180									0.02800		0.0	2.0	2.0	5.0				0.174814	gdickerson
2	clear	0.0233	6.57	0.00							0.03790		0.0	5.0	2.0	5.0				0.234914	djones
3	clear	0.0196									0.03180		0.0	2.0	2.0	5.0				0.196370	djones
4	clear	0.0198									0.03270		0.0	1.0	2.0	5.0				0.223421	djones
5	clear	0.0188									0.03100		0.0	1.0	2.0	5.0				0.200892	ssteedman
6	clear	0.0179	6.89	0.00							0.02800		0.0	1.0	2.0	5.0				0.182166	ssteedman
7	clear	0.0197			< 1.00	< 1.00	< 1.00	2.0	4.0	< 5.0	0.03020	< 1.8	0.0	1.0	2.0	3.7				0.202928	djones
8	clear	0.0210	6.35	0.00							0.03770		0.0	2.0	2.0	5.0				0.220607	djones
9	clear	0.0190									0.03640		0.0	1.0	2.0	5.0				0.196925	djones
10	clear	0.0183									0.03410		0.0	1.0	2.0	5.0				0.201982	ssteedman
11	clear	0.0170									0.03090		0.0	1.0	2.0	5.0				0.207462	ssteedman
12	clear	0.0182									0.03290		0.0	4.0	2.0	5.0				0.195931	djones
13	clear	0.0180	6.40	0.00							0.03780		0.0	5.0	1.0	3.1				0.193201	djones
14	clear	0.0167									0.03970	< 1.8	1.0	1.0	1.0	5.0				0.215890	djones
15	clear	0.0165	6.36	0.00							0.03360		1.0	1.0	1.0	5.0				0.184410	djones
16	clear	0.0202									0.03440		1.0	1.0	2.0	5.0				0.183945	ssteedman
17	clear	0.0185									0.03150		1.0	1.0	2.0	3.1				0.186590	gdickerson
18	clear	0.0184									0.03110		1.0	1.0	2.0	5.0				0.188592	gdickerson
19	clear	0.0193									0.03270		1.0	1.0	2.0	5.0				0.203741	ssteedman
20	clear	0.0153									0.02430		0.0	1.0	2.0	5.0				0.165983	ssteedman
21	clear	0.0188	6.50	0.00							0.03020	< 1.8	0.0	3.0	2.0	3.9	< 1	< 1	< 1	0.170514	djones
22	clear	0.0181									0.04130		1.0	5.0	2.0	5.0				0.206406	djones
23	clear	0.0192	6.54	0.00							0.03120		1.0	1.0	2.0	5.0				0.190573	djones
24	clear	0.0185									0.02880		0.0	1.0	2.0	5.0				0.195292	ssteedman
25	clear	0.0170									0.02580		0.0	1.0	2.0	5.0				0.193742	ssteedman
26	clear	0.0146									0.02400		0.0	2.0	2.0	5.0				0.174445	djones
27	clear	0.0187	6.50	0.00							0.03300		1.0	5.0	2.0	2.9				0.222808	djones
28	clear	0.0187									0.03110	2.0	1.0	5.0	2.0	5.0				0.220089	gdickerson
29	clear	0.0186	6.52	0.00							0.03940		0.0	5.0	2.0	5.0				0.229208	djones
30	clear	0.0161									0.03760		0.0	5.0	1.0	3.1				0.168465	djones
31	clear	0.0178									0.04220		1.0	5.0	2.0	5.0				0.210835	djones
Total		0.5696	58.63	0.00	0	0	0	2	4	0	1.02130	5	11.0	72.0	58.0	144.8	0.00	0.00	0.00	6.14314	
Average		0.0184	6.51	<0.10	0	0	0	2	4	0	0.03295	1	0.4	2.3	1.9	4.7	0.00	0.00	0.00	0.19817	
Minimum		0.0146	6.35	0.00	0	0	0	2	4	0	0.02400	1	0.0	1.0	1.0	2.9	0.00	0.00	0.00	0.16598	
Maximum		0.0233	6.89	<0.10	0	0	0	2	4	0	0.04220	2	1.0	5.0	2.0	5.0	0.00	0.00	0.00	0.23491	MOR 5-07-08

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

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Facility: BTR Capital Group
Address: 626 Hanover Pike, Hampstead Maryland
Additional Op's & cert # - Dorrance Jones 0763, Scott Steedman 0764, Gary Dickerson 0782, Gary Kesserling 1962.

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

Certification # 1017

Month: February
Year: 2009

Date	Appearance	Discharge MGD	pH	Cl2	Final Effluent outfall 001					Outfall 101					Outfall 201			Discharge mgd	Comments		
					Tetrachloroethylene ug/l	1,1,1-Trichloroethane ug/l	Trichloroethylene ug/l	BOD ₅ mg/l	TSS mg/l	O&G mg/l	Flow MGD	Fecal mpn	Basin Inches	Alum Gpd	Hypochlorite Gpd	Fast Cl2 mg/l	Tetrachloroethylene ug/l			1,1,1-Trichloroethane ug/l	Trichloroethylene ug/l
1	clear	0.0194									0.44100		0.0	2.0	2.0	2.8				0.199705	djones
2	clear	0.0154									0.35500		0.0	3.0	2.0	5.0				0.255276	ssteedman
3	clear	0.0163									0.35500		0.0	1.0	2.0	4.4				0.193058	gkesserling
4	clear	0.0174	6.50	0.00	< 1.00	< 1.00	< 1.00	< 2.0	< 4.0	7.2	0.40300	2	3.0	1.0	1.0	2.6				0.212463	djones
5	clear	0.0175									0.27400		3.0	2.0	1.0	5.0				0.221084	djones
6	clear	0.0177	6.45	0.00							0.38900		2.0	1.0	1.0	5.0				0.203921	djones
7	clear	0.0165									0.36300		2.0	1.0	1.0	5.0				0.205066	gdickerson
8	clear	0.0185									0.41700		2.0	1.0	1.0	4.4				0.225234	gdickerson
9	clear	0.0154									0.33600		2.0	2.0	1.0	4.3				0.193999	gkesserling
10	clear	0.0160	6.40	0.00							0.29000		3.0	1.0	1.0	5.0				0.195569	djones
11	clear	0.0168									0.32900	< 1.8	2.0	1.0	1.0	5.0				0.207492	djones
12	clear	0.0180	6.45	0.00							0.36600		2.0	3.0	1.0	3.0				0.240308	djones
13	clear	0.0163									0.33900		2.0	2.0	2.0	5.0				0.207143	ssteedman
14	clear	0.0155									0.32000		1.0	2.0	1.0	5.0				0.208040	ssteedman
15	clear	0.0159									0.33800		0.0	1.0	1.0	5.0				0.227121	ssteedman
16	clear	0.0147									0.31600		0.0	5.0	1.0	5.0				0.205583	gkesserling
17	clear	0.0145	6.43	0.00							0.27700		0.0	2.0	2.0	5.0				0.174844	gkesserling
18	clear	0.0145									0.37300	< 1.8	0.0	2.0	2.0	5.0				0.239145	ssteedman
19	clear	0.0138	6.60	0.00							0.32600		0.0	1.0	2.0	5.0				0.211072	ssteedman
20	clear	0.0125									0.32900		0.0	5.0	1.0	5.0				0.202605	ssteedman
21	clear	0.0092									0.32800		0.0	2.0	1.0	5.0				0.210551	djones
22	clear	0.0087									0.31300		0.0	2.0	1.0	5.0				0.213399	djones
23	clear	0.0089									0.30800		0.0	2.0	1.0	5.0				0.202460	ssteedman
24	clear	0.0092	6.74	0.00							0.30300		0.0	2.0	2.0	5.0				0.205390	ssteedman
25	clear	0.0089									0.28100	< 1.8	0.0	2.0	2.0	2.2				0.210697	djones
26	clear	0.0094	6.60	0.00							0.42500		0.0	5.0	2.0	5.0				0.212232	djones
27	clear	0.0095									0.36900		1.0	3.0	2.0	4.8				0.186459	djones
28	clear	0.0093									0.36100		0.0	1.0	2.0	2.8				0.212118	gdickerson
29																					
30																					
31																					
Total		0.3957			0	0	0	0	0	7	9.62400	5	25.0	58.0	40.0	126.3	0.00	0.00	0.00	5.88203	
Average		0.0141	6.52	<0.10	0	0	0	0	0	7	0.34371	1	0.9	2.1	1.4	4.5	#DIV/0!	#DIV/0!	#####	0.21007	
Minimum		0.0087	6.40	0.00	0	0	0	0	0	7	0.27400	1	0.0	1.0	1.0	2.2	0.00	0.00	0.00	0.17484	
Maximum		0.0194	6.74	<0.10	0	0	0	0	0	7	0.44100	2	3.0	5.0	2.0	5.0	0.00	0.00	0.00	0.25528	MOR 5.07-08