

Quarterly Groundwater Monitoring Report

Prepared for

Black & Decker (U.S.) Inc.

Hampstead, Maryland

October 2007

Prepared by

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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 July through September 2007.

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 July through September 2007, the extraction wells were pumping at an average combined rate of approximately 163 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 July through September 2007 are included in Appendix B.

2.3 GROUNDWATER QUALITY DATA

For the reporting period of July through September 2007, approximately 24 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) (86 %) and tetrachloroethene (PCE) (14 %). Analytical results of the groundwater collected from the air stripper for the period of January through March 2007 are included in Appendix C.

A summary of the analytical results from the first quarter (August 2007) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete

Table 2-1
Treatment System Pumping Records - 3rd Quarter 2007
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
July 2007	6,777,770
August 2007	6,598,950
September 2007	6,694,100

Table 2-2
Groundwater Elevation Data - 3rd Quarter 2007
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	7/23/2007		8/6/2007		9/11/2007	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	NA	DRY	NA	DRY	NA
EW-2	849.21	110	75.82	773.39	76.74	772.47	77.31	771.90
EW-3	846.64	118	89.13	757.51	88.47	758.17	89.50	757.14
EW-4	858.01	97.5	NA	NA	NA	NA	NA	NA
EW-5	864.17	98	64.80	799.37	66.24	797.93	66.56	797.61
EW-6	831.98	115	89.88	742.10	85.11	746.87	86.42	745.56
EW-7	818.38	78	48.53	769.85	44.13	774.25	45.81	772.57
EW-8	811.13	98	64.22	746.91	72.72	738.41	74.31	736.82
EW-9	811.35	141	103.78	707.57	102.94	708.41	103.48	707.87
EW-10	807.74	NA	56.30	751.44	56.71	751.03	57.10	750.64
RFW-1A	864.37	78	49.26	815.11	47.09	817.28	47.15	817.22
RFW-1B	864.23	200	49.31	814.92	47.12	817.11	47.19	817.04
RFW-2A	857.41	35	14.98	842.43	17.53	839.88	17.60	839.81
RFW-2B	857.73	75	15.11	842.62	18.04	839.69	18.11	839.62
RFW-3B	839.21	153	30.12	809.09	33.77	805.44	34.06	805.15
RFW-4A	830.37	62	37.78	792.59	37.12	793.25	37.80	792.57
RFW-4B	830.37	120	37.14	793.23	37.08	793.29	37.77	792.60
RFW-5A	817.50	30	DRY	NA	DRY	NA	DRY	NA
RFW-6	785.04	120	4.32	780.72	4.19	780.85	4.40	780.64
RFW-7	805.14	29	7.67	797.47	7.41	797.73	7.83	797.31
RFW-8	860.07	56	DRY	NA	DRY	NA	DRY	NA
RFW-9	862.02	49	25.61	836.41	27.77	834.25	27.74	834.28
RFW-10	852.06	58	DRY	NA	DRY	NA	DRY	NA
RFW-11A	849.32	72	NA	NA	NA	NA	NA	NA
RFW-11B	849.62	116	70.32	779.30	67.58	782.04	67.66	781.96
RFW-12B	844.87	264	54.08	790.79	49.79	795.08	50.55	794.32
RFW-13	849.11	150	61.89	787.22	59.33	789.78	60.17	788.94
RFW-14B	812.39	281	53.11	759.28	51.74	760.65	52.26	760.13
RFW-16	856.14	41	DRY	NA	DRY	NA	DRY	NA
RFW-17	834.66	60.5	27.38	807.28	27.27	807.39	28.71	805.95
RFW-20	842.49	142	35.13	807.36	35.19	807.30	35.26	807.23
RFW-21	832.65	102	24.14	808.51	22.91	809.74	23.64	809.01
PH-7	805.94	89	28.40	777.54	34.00	771.94	36.12	769.82
PH-9	814.94	98	36.31	778.63	34.88	780.06	34.83	780.11
PH-11	820.68	78	44.80	775.88	45.29	775.39	45.23	775.45
PH-12	828.35	87	47.66	780.69	47.74	780.61	47.80	780.55
B-3	803.02	83	NA	NA	8.63	794.39	8.84	794.18
Amoco	842.29	NA	NA	NA	NA	NA	NA	NA
Hamp. Town #22	804.96	NA	39.44	765.52	26.53	778.43	23.12	781.84
Pembroke #1	NA	NA	14.46	NA	14.98	NA	16.32	NA
Pembroke #2	NA	NA	NA	NA	NA	NA	NA	NA
N. Houcks. Rd.	NA	NA	9.08	NA	8.74	NA	9.53	NA
E. Century St.	NA	NA	12.81	NA	12.01	NA	12.26	NA
Lwr. Beckleys. Rd.	NA	NA	NA	NA	52.89	NA	53.44	NA

NA - Not Available/Not Accessible

Table 2-3
Effluent Characteristics Summary - 3rd Quarter 2007
Black & Decker
Hampstead, Maryland

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				July 2007	August 2007	September 2007	
001	FLOW	average	MGD	NA	0.120	0.090	0.160
		maximum	MGD	NA	0.195	0.129	0.209
	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	8.0
		quarterly average	mg/l	10	0	0	8.0
	pH	minimum	STD	6.0	6.80	6.60	7.10
		maximum	STD	8.5	8.20	8.20	7.70
	BOD		mg/l	15	8.0	6.0	4.0
TSS	maximum	mg/l	30	18.0	16.0	10.0	
	quarterly average	mg/l	20	18.0	16.0	10.0	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.075	0.088	0.139
		maximum	MGD	NA	0.296	0.520	0.630
	Fecal Coliform		MPN/100ml	200	1.0	4.0	13.0
201 (Monitoring Point)	FLOW	average	MGD	NA	NR	NR	0.218
		maximum	MGD	NA	NR	NR	0.256
	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 - August 2007
 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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 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 U	1 U	1 U	1 U
1,2-Dichloroethene (total)	ug/L	NS	2.3	2.4	1 U	1 U	1 U	5.8	19	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	1.4	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	480	220	1600	210	9.2	5.5	11	1.7	1.8	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	68	5.3	31	13	21	12	82	190	220	4.6
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.

Table 2-4
Summary of Groundwater Analytical Results - August 2007
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	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
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	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	1.3	NS
1,2-Dichloroethene (total)	ug/L	1 U	1 U	1 U	1 U	5.4	1	4	3.6	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	1.7	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	1 U	1 U	41	55	54	NS	2	5.2	NS	18	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	1.9	38	120	96	NS	2.6	1 U	NS	6.4	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 = Duplicated 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 - August 2007
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	USEPA drinking water method 524.2				
												RFW-20	RFW-21	Town #22	Town #23	Trip Blank
Chloromethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	ug/L	NS	1 U	1 U	1 U	NS	1.5	1 U	1 U	NS	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	5 U	5 U	NS	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	5 U	5 U	NS	5 U	NA	NA	NA	NA	NA
1,1-Dichloroethene	ug/L	NS	1 U	1 U	1 U	NS	1 U	1 U	1 U	NS	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	1 U	1 U	NS	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	5.5	1 U	NS	1 U	1 U	1 U	NS	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	1 U	1 U	NS	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	ug/L	NS	1 U	1 U	1 U	NS	1 U	1 U	1 U	NS	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	5 U	5 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	ug/L	NS	16	370	3.9	NS	1 U	1 U	1 U	NS	1 U	1	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	5 U	5 U	NS	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	5 U	5 U	NS	5 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	1 U	34	19	NS	1 U	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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	1 U	1 U	NS	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.

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 (July through September 2007) 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 - 3rd Quarter 2007
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
Jul-07	Micro-Tech Designs onsite for periodic calibration the of the Wet Well, Air Stripper and the Chemical feed.
Aug-07	The pumps that drain the air stripper column were cycling. The valve in the ceiling was adjusted to create a steady flow. This caused pressure to build in the system. Wells EW-3 & EW-8 were turned off temporarily to reduce the pressure. There was added demand to the system due to a 300-ton chiller used within the facility. The chiller was drawing additional water from the system. The additional demand caused the instability in the pumps that drain the air stripper column. The two wells were off for 66 hours until the pressure could be reduced in the system. All wells are running again.

4. RECOMMENDATIONS

For the reporting period of July through September 2007, 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
(JULY - SEPTEMBER 2007)**

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

Permit Number: 02-DP-0022
Operator: Justin Myers
Certification # 8406

Month: JULY
Year: # 2007

Date	Appearance	Final Effluent outfall 001									Outfall 101					Outfall 201			Comments		
		Discharge MGD	pH su	Cl2 mg/l	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	clr	0.0740								0.00000		1.0	0.0	0.0	0.0				0.204465		
2	clr	0.0860								0.19100		1.0	10.0	6.0	3.3				0.224121		
3	clr	0.0760	7.2	0.00						0.29600	< 2	3.0	15.0	6.0	4.7				0.187321		
4	clr	0.0950								0.21400		6.0	15.0	7.0	3.0				0.251244		
5	cldy	0.0830	6.8	0.00						0.20300		8.0	2.0	7.0	1.7				0.215354		
6	clr	0.0880								0.00000		8.0	0.0	0.0	0.0				0.222376		
7	clr	0.0900								0.00000		9.0	0.0	0.0	0.0				0.239155		
8	clr	0.0750								0.00000		9.0	0.0	0.0	0.0				0.210498		
9	clr	0.0880								0.00000		8.0	0.0	0.0	0.0				0.227667		
10	clr	0.0850								0.00000		7.0	0.0	0.0	0.0				0.218605		
11	clr	0.0810	8.0	0.00						0.00000		7.0	0.0	0.0	0.0				0.194059		
12	clr	0.0880								0.00000		6.0	0.0	0.0	0.0				0.246741		
13	clr	0.0970	8.2	0.00						0.00000		5.0	0.0	0.0	0.0				0.210747		
14	clr	0.0840								0.00000		5.0	0.0	0.0	0.0				0.211085		
15	clr	0.0740								0.00000		5.0	0.0	0.0	0.0				0.219219		
16	clr	0.0940	8.2	0.00						0.00000		4.0	0.0	0.0	0.0				0.231934		
17	clr	0.0850								0.24400		4.0	20.0	8.0	1.5				0.228703		
18	clr	0.0780								0.22100		7.0	20.0	6.0	3.9				0.201598		
19	cldy	0.1720								0.16800		10.0	10.0	6.0	3.8				0.205881		
20	clr	0.1640	8.0	0.00						0.00000		10.0	0.0	0.0	0.0				0.205113		
21	clr	0.1630								0.00000		10.0	0.0	0.0	0.0				0.211619		
22	clr	0.1620								0.00000		9.0	0.0	0.0	0.0				0.232067		
23	clr	0.1740								0.00000		9.0	0.0	0.0	0.0				0.243585		
24	clr	0.1840	7.0	0.00						0.00000		8.0	5.0	8.0	0.0				0.212439		
25	clr	0.1660			< 1.00	< 1.00	< 1.00	8.0	18.0	< 5.0	0.25700	< 2	11.0	5.0	6.0	3.1	< 1	< 1	< 1	0.213187	
26	clr	0.1680								0.24100		14.0	5.0	5.0	3.0				0.221510		
27	clr	0.1950	6.9	0.00						0.23900		14.0	0.5	2.0	3.0				0.236898		
28	clr	0.1560								0.03600		14.0	0.0	0.0	2.8				0.203975		
29	clr	0.1560								0.00000		14.0	0.0	0.0	0.0				0.227755		
30	clr	0.1610								0.00000		14.0	0.0	0.0	0.0				0.206030		
31	clr	0.1710	7.9	0.00						0.00000		13.0	0.0	0.0	0.0				0.212820		
Total		3.7130	68.2	0.00	0.0	0.0	0.0	8	18	0	2.31000	2	253.0	107.5	67.0	33.8	0.00	0.00	0.00	6.77777	
Average		0.1198	7.6	<0.10	0.0	0.0	0.0	8	18	0	0.07452	1	8.2	3.5	2.2	1.1	0.00	0.00	0.00	0.21864	
Minimum		0.0740	6.8	0.00	0.0	0.0	0.0	8	18	0	0.00000	1	1.0	0.0	0.0	0.0	0.00	0.00	0.00	0.18732	
Maximum		0.1950	8.2	<0.10	0.0	0.0	0.0	8	18	0	0.29600	1	14.0	20.0	8.0	4.7	0.00	0.00	0.00	0.25124	MOR 3-15-07

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

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259 Najoles Road, Millersville MD

Facility: BTR Capital Group
Address: 626 Hanover Pike, Hampstead Maryland

Permit Number: 02-DP-0022
Operator: Justin Myers
Certification # 8406

Month: August
Year: # 2007

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	Trichloroethylene 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	Trichloroethylene ug/l	Discharge mgd
1	clear	0.1000									0.00000		14.0	0.0	0.0	0.0				0.229486	
2	clear	0.0760									0.00000		14.0	0.0	0.0	0.0				0.196801	
3	clear	0.0960	8.2	0.00							0.00000		14.0	0.0	0.0	0.0				0.208201	
4	clear	0.0880									0.00000		14.0	0.0	0.0	0.0				0.228884	
5	clear	0.0850									0.00000		14.0	0.0	0.0	0.0				0.204506	
6	clear	0.0890									0.18300		10.0	15.0	6.0	2.3				0.209853	
7	clear	0.0890	6.7	0.00							0.19500	4	12.0	15.0	8.0	3.3				0.253401	
8	clear	0.0850			< 1.00	< 1.00	< 1.00	6.0	16.0	< 5.1	0.26800		12.0	5.0	8.0	3.4				0.230016	
9	clear	0.0870	6.6	0.00							0.25600		14.0	15.0	7.0	5.0				0.227382	
10	clear	0.0820									0.25400		14.0	20.0	6.0	2.0				0.210172	
11	clear	0.0860									0.25000		14.0	5.0	6.0	3.4				0.227367	
12	clear	0.0900									0.00000		14.0	0.0	0.0	3.7				0.256003	
13	clear	0.0900									0.00000		14.0	0.0	0.0	0.0				0.169435	
14	clear	0.0880	7.3	0.00							0.00000		14.0	0.0	0.0	0.0				0.132206	
15	clear	0.0850									0.00000		14.0	0.0	0.0	0.0				0.187270	
16	clear	0.0800	7.4	0.00							0.00000		14.0	0.0	0.0	0.0				0.218523	
17	clear	0.0970									0.00000		14.0	0.0	0.0	0.0				0.233240	
18	clear	0.0790									0.00000		14.0	0.0	0.0	0.0				0.205632	
19	clear	0.0790									0.00000		14.0	0.0	0.0	0.0				0.222005	
20	clear	0.0820									0.00000		14.0	0.0	0.0	0.0				0.229600	
21	clear	0.0760	6.6	0.00							0.00000		11.0	0.0	0.0	0.0				0.195841	
22	clear	0.0910									0.00000		10.0	0.0	0.0	0.0				0.243062	
23	clear	0.0710									0.00000		9.0	0.0	0.0	0.0				0.206983	
24	clear	0.0820	6.8	0.00							0.00000		8.0	0.0	0.0	0.0				0.203631	
25	clear	0.0730									0.00000		7.0	6.0	0.0	0.0				0.200610	
26	clear	0.0780									0.00000		6.0	0.0	0.0	0.0				0.217204	
27	clear	0.1240									0.00000		6.0	0.0	0.0	0.0				0.212340	
28	clear	0.1290	7.1	0.00							0.21600		5.0	0.0	0.0	0.0				0.213735	
29	clear	0.1130									0.27900		7.0	0.0	0.0	0.0				0.205886	
30	clear	0.1080	7.0	0.00							0.30400		10.0	0.0	0.0	0.0				0.211457	
31	clear	0.1220									0.52000		12.0	0.0	0.0	0.0				0.208218	
Total		2.8000	63.7	0.00	0.0	0.0	0.0	6	16	0	2.72500	4	363.0	81.0	41.0	23.1	0.00	0.00	0.00	6.59895	
Average		0.0903	7.1	<0.10	0.0	0.0	0.0	6	16	0	0.08790	4	11.7	2.6	1.3	0.7	#DIV/0!	#DIV/0!	#####	0.21287	
Minimum		0.0710	6.6	0.00	0.0	0.0	0.0	6	16	0	0.00000	4	5.0	0.0	0.0	0.0	0.00	0.00	0.00	0.13221	
Maximum		0.1290	8.2	<0.10	0.0	0.0	0.0	6	16	0	0.52000	4	14.0	20.0	8.0	5.0	0.00	0.00	0.00	0.25600	MOR 3-15-07