

**QUARTERLY GROUNDWATER
MONITORING REPORT**

Prepared for

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

April 2001

Prepared by

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TABLE OF CONTENTS

Section	Page
1. INTRODUCTION.....	1-1
2. SITE CHARACTERISTICS.....	2-1
2.1 HYDRAULIC PROPERTIES	2-1
2.2 EFFLUENT CHARACTERISTICS	2-1
2.3 GROUNDWATER QUALITY DATA	2-1
3. OPERATION AND MAINTENANCE OF THE TREATMENT SYSTEM.....	3-1
4. RECOMMENDATIONS.....	4-1

LIST OF APPENDICES

- APPENDIX A - GROUNDWATER TREATMENT SYSTEM PUMPING RECORDS
- APPENDIX B - DISCHARGE MONITORING REPORTS
- APPENDIX C - GROUNDWATER TREATMENT SYSTEM ANALYTICAL RESULTS
- APPENDIX D - GROUNDWATER ANALYTICAL DATA PACKAGE

LIST OF TABLES

Table	Page
Table 2-1 Treatment System Pumping Records – 1 st Quarter 2001	2-3
Table 2-2 Groundwater Elevation Data – 1 st Quarter 2001	2-4
Table 2-3 Effluent Characteristics Summary – 1 st Quarter 2001	2-5
Table 2-4 Summary of Groundwater Analytical Results – February 2001	2-6
Table 3-1 Treatment System Maintenance Activities – 1 st Quarter 2001	3-2

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; and 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 2001.

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. At the time the water level measurements were collected, the extraction wells were pumping at an average combined rate of approximately 132 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 2001 are included in Appendix B

2.3 GROUNDWATER QUALITY DATA

For the reporting period of January through March 2001, approximately 71 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) (80 %) and tetrachlorethene (PCE) (20 %). Analytical results of the groundwater collected at the inlet to the air stripper for the period of January through March 2001 are included in Appendix C.

A summary of the analytical results from the first quarter (February 2001) groundwater sampling round of the extraction and monitor wells is included in Table 2-4. The complete 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-2 and the highest concentration of PCE was detected in the groundwater sample collected from extraction well EW-9. Lower concentrations of 1,2-dichloroethene were also detected. The remainder of VOCs present were detected at levels well below the Federal Maximum Contaminant Levels (MCL).

Table 2-1
Treatment System Pumping Records - 1st Quarter 2001
Black & Decker
Hampstead, Maryland

Date	Water Pumped (gallons)
January 2001	5,780,670
February 2001	5,217,969
March 2001	5,758,714

Table 2-2
Groundwater Elevation Data - 1st Quarter 2001
Black & Decker
Hampstead, Maryland

WELL NO.	TOC ELEV.	TOTAL DEPTH	1/31/01		2/13/01		3/16/01	
			DTW	ELEV	DTW	ELEV	DTW	ELEV
EW-1	847.21	55	DRY	--	DRY	--	DRY	--
EW-2	849.21	110	91.49	757.72	93.23	755.98	94.24	754.97
EW-3	846.64	118	76.43	770.21	63.47	783.17	58.04	788.60
EW-4	858.01	97.5	NA	--	NA	--	NA	--
EW-5	864.17	98	85.84	778.33	87.95	776.22	88.17	776.00
EW-6	831.98	115	48.36	783.62	59.02	772.96	61.20	770.78
EW-7	818.38	78	53.21	765.17	50.14	768.24	51.67	766.71
EW-8	811.13	98	80.43	730.70	78.17	732.96	79.34	731.79
EW-9	811.35	141	102.00	709.35	101.00	710.35	102.00	709.35
EW-10	807.74	NA	53.41	754.33	53.85	753.89	54.63	753.11
RFW-1A	864.37	78	53.07	811.30	53.58	810.79	53.35	811.02
RFW-1B	864.23	200	53.09	811.14	53.64	810.59	53.36	810.87
RFW-2A	857.41	35	14.89	842.52	16.17	841.24	16.73	840.68
RFW-2B	857.73	75	15.20	842.53	16.80	840.93	17.21	840.52
RFW-3B	839.21	153	34.61	804.60	36.13	803.08	36.89	802.32
RFW-4A	830.37	62	38.91	791.46	38.51	791.86	38.26	792.11
RFW-4B	830.37	120	38.84	791.53	38.35	792.02	38.12	792.25
RFW-5A	817.50	30	DRY	--	DRY	--	DRY	--
RFW-6	785.04	120	1.83	783.21	3.06	781.98	1.26	783.78
RFW-7	805.14	29	6.78	798.36	7.01	798.13	7.87	797.27
RFW-8	860.07	56	DRY	--	DRY	--	DRY	--
RFW-9	862.02	49	27.13	834.89	26.72	835.30	26.57	835.45
RFW-10	852.06	58	DRY	--	DRY	--	DRY	--
RFW-11A	849.32	72	NA	--	NA	--	NA	--
RFW-11B	849.62	116	72.68	776.94	64.36	785.26	66.62	783.00
RFW-12B	844.87	264	56.11	788.76	53.99	790.88	54.43	790.44
RFW-13	849.11	150	63.81	785.30	63.91	785.20	64.41	784.70
RFW-14B	812.39	281	48.88	763.51	49.53	762.86	50.11	762.28
RFW-16	856.14	41	DRY	--	DRY	--	DRY	--
RFW-17	834.66	60.5	28.47	806.19	28.73	805.93	28.99	805.67
RFW-20	842.49	142	36.89	805.60	36.46	806.03	36.38	806.11
RFW-21	832.65	102	22.84	809.81	22.80	809.85	22.61	810.04
PH-7	805.94	89	35.89	770.05	36.21	769.73	36.84	769.10
PH-9	814.94	98	43.28	771.66	44.36	770.58	42.87	772.07
PH-11	820.68	78	37.97	782.71	39.87	780.81	39.21	781.47
PH-12	828.35	87	47.43	780.92	47.79	780.56	47.83	780.52
B-3	803.02	83	6.84	796.18	7.17	795.85	7.43	795.59
Amoco	842.29	NA	28.13	814.16	29.01	813.28	28.94	813.35
Hamp. Town #22	804.96	NA	1.49	803.47	0.94	804.02	0.73	804.23
Pembroke #1	NA	NA	11.43	--	11.27	--	11.38	--
Pembroke #2	NA	NA	NA	--	NA	--	NA	--
N. Houcks. Rd.	NA	NA	9.67	--	9.82	--	9.86	--
E. Century St.	NA	NA	11.21	--	11.23	--	11.16	--
Lwr. Beckleys. Rd.	NA	NA	55.91	--	55.98	--	56.14	--

NA - Not Available/Not Accessible

**Table 2-3
Effluent Characteristics Summary - 1st Quarter 2001
Black & Decker
Hampstead, Maryland**

Discharge Number	Parameter	Units	Permit Limits	DMR DATE			
				January 2001	February 2001	March 2001	
001	FLOW	average	MGD	NA	0.160	0.207	0.254
		maximum	MGD	NA	0.262	0.558	0.644
	1,1,1-Trichloroethane		ug/l	5	< 5	< 5	< 5
	Tetrachloroethylene		ug/l	5	< 5	< 5	< 5
	Trichloroethylene		ug/l	5	< 5	< 5	< 5
	Total Residual Chlorine		mg/l	<0.1	<0.1	<0.1	<0.1
	Oil & Grease	maximum	mg/l	15	< 5	< 5	< 5
		quarterly average	mg/l	10	NR	NR	< 5
	pH	minimum	STD	6.0	6.15	6.14	6.40
		maximum	STD	8.5	8.14	8.02	7.39
	BOD		mg/l	15	2.9	2.9	2.8
TSS	maximum	mg/l	30	5.5	2	2.9	
	quarterly average	mg/l	20	NR	NR	3.5	
101 (Monitoring Point)	FLOW	average	MGD	NA	0.225	0.288	0.277
		maximum	MGD	NA	0.256	0.295	0.296
	Fecal Coliform		MPN/100ml	200	< 2	< 2	< 2
201 (Monitoring Point)	FLOW	average	MGD	NA	0.186	0.186	0.186
		maximum	MGD	NA	0.211	0.215	0.210
	1,1,1-Trichloroethane		ug/l	NA	< 5	< 5	< 5
	Tetrachloroethylene		ug/l	NA	< 5	< 5	< 5
	Trichloroethylene		ug/l	NA	< 5	< 5	< 5

DMR - Discharge Monitoring Report

NA - Not Applicable

NR - Not Reported

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

PARAMETER	Units	EW-1	EW-2	EW-3	EW-4	EW-5	EW-5	EW-6	EW-7	EW-8	EW-9	EW-10	RFW-1A	RFW-1B
			(20)	(5)	(10)	(10)	(DUP) (10)				(5)			
Chloromethane	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U
Bromomethane	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U
Chloroethane	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	57 JB	27 B	52 B	91 B	91 B	1 JB	2 JB	5 U	9 JB	5 U	7 B	1 JB
Acetone	ug/L	NS	200 U	22 JB	41 JB	84 JB	98 JB	2 JB	2 JB	2 JB	50 U	2 JB	8 JB	3 JB
Carbon Disulfide	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,1-Dichloroethene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	1 J	5 U	25 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	2 J	2 J	25 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	9	36	5 J	5 U	5 U	5 U
Chloroform	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
2-Butanone	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	2 J	10 U
1,1,1-Trichloroethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	1 J	25 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Trichloroethene	ug/L	NS	1800	360	1200	720	710	14	14	22	9 J	5 U	5 U	5 U
Dibromochloromethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Benzene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Bromoform	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U
2-Hexanone	ug/L	NS	200 U	50 U	100 U	100 U	100 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	99 J	8 J	23 J	20 J	20 J	44	37	190	530	16	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Toluene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Chlorobenzene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Ethylbenzene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Styrene	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
Xylene (total)	ug/L	NS	100 U	25 U	50 U	50 U	50 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U

Notes: U = Compound was analyzed for but not detected. Value shown is the method detection limit for quantifica
DUP = Duplicate sample
J = Indicates an estimated value.
NS = Not sampled
B = Indicates that the analyte was found in the associated blank as well as in the sample.
(2.5) = Dilution factor.

Table 2-4 (Continued)
Summary of Groundwater Analytical Results - February 2001
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-11	RFW-11
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	7 B	8 B	3 JB	2 JB	5 B	4 JB	NS	3 JB	6 B	NS	7 B	NS	NS	7 B
Acetone	ug/L	4 JB	8 JB	6 JB	4 JB	6 JB	5 JB	NS	6 JB	5 JB	NS	4 JB	NS	NS	3 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	2 J	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	32	2 J	8	8	NS	1 J	1 J	NS	3 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	2 J	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	1 J	5 U	2 J	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	5 J	5 U	13	72	13	12	NS	5	8	NS	14	NS	NS	170
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	16	74	77	77	NS	5	5 U	NS	3 J	NS	NS	5 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.
 J = Indicates an estimated value.
 B = Indicates that the analyte was found in the associated blank as well as in the sample.

DUP = Duplicate sample
 NS = Not sampled
 (2.5) = Dilution factor.

Table 2-4 (Continued)
Summary of Groundwater Analytical Results - February 2001
Black & Decker
Hampstead, Maryland

PARAMETER	Units	RFW-12	RFW-13	RFW-16	RFW-17	RFW-20	RFW-21	Town #22	Town #23	Leister Dairy	Leister Res. #1	Leister Res. #2	Trip Blank
		(5)											
Chloromethane	ug/L	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	ug/L	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	19 JB	7 B	NS	3 JB	3 JB	3 JB	3 JB	3 JB	1 JB	3 JB	3 JB	10 B
Acetone	ug/L	50 U	5 JB	NS	5 JB	5 JB	5 JB	3 JB	6 JB	3 JB	3 JB	3 JB	5 JB
Carbon Disulfide	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2 J
1,1-Dichloroethene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	ug/L	29	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	ug/L	25 U	5 U	NS	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	ug/L	50 U	10 U	NS	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	470	15	NS	5 U	3 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	ug/L	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	50 U	10 U	NS	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	41	69	NS	5 U	5 U	5 U	5 U	5 U	2 J	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	2 J	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	ug/L	25 U	5 U	NS	5 U	5 U	5 U	5 U	5 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 quanti
 J = Indicates an estimated value. DUP = Duplicate sample
 B = Indicates that the analyte was found in the associated blank as well as in the sample. NS = Not sampled
 (2.5) = Dilution factor.

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 2001) 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 2001
Black & Decker
Hampstead, Maryland

Date	Event/Corrective Action
January 2001	The spline was worn off the motor shaft of EW-6, well was offline for 22 days. Installed new pump, motor, pipe and wire well back online.
March 2001	Pump in EW-3 was pulled due to low flow. A hole was found at top of the pump. A new pump and motor was ordered and installed, well back online after 16 days.

4. RECOMMENDATIONS

For the reporting period of January through March 2001, the treatment system continued to create a hydraulic boundary preventing off-site migration of groundwater. Operation of the extraction system as currently configured will continue, adjusting pumping rates as necessary according to the amount of groundwater recharge. Operation of the treatment system as currently configured will also continue, because the treatment system is fully effective in removing VOCs from the extracted groundwater.

APPENDIX A
GROUNDWATER TREATMENT SYSTEM PUMPING RECORDS
(JANUARY - MARCH 2001)

MONTH / YEAR

Jan. 01

**BLACK DECKER
AIR STRIPPER # 2
OPERATING RECORD**

PAST MONTH READING

526266842

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1				202097		
2	T	1050	527075229	197728	6225	6301
3	W	1100	527272957	114654	6249	6301
4	T	0915	527387611	211264	6266	6307
5	F	1050	527598875	↑	6292	6301
6						
7				599998		
8	M	1055	528198873	184996	6364	6301
9	T	0925	528383869	202396	6364	6323
10	W	1000	528586265	192724	6364	6348
11	T	0925	52878989	210992	6364	6371
12	F	1115	528989981	↑	6364	6397
13						
14				602866		
15	M	1245	529592847	176533	6364	6471
16	T	1100	529769380	181825	6387	6471
17	W	1105	529951205	161325	6411	6471
18	T	0810	530112530	183545	6432	6471
19	F	0815	530296015	↑	6456	6471
20						
21				564566		
22	M	1120	530860641	176435	6531	6471
23	T	1035	531037076	155002	6531	6494
24	W	0725	531192078	177301	6531	6515
25	T	0655	531369379	187977	6531	6538
26	F	0750	531557356	↑	6531	6563
27						
28				561204		
29	M	1150	532118560	169391	6531	6639
30	T	1005	532287951	179826	6554	6639
31	W	1010	532467777	186025	6578	6639
Total				5780670		
Average				186473		

EW#6 went down 1-16-01

NEXT MONTH READING 532653802

DATE 2-1-01

MONTH / YEAR

Feb. 01

**BLACK DECKER
AIR STRIPPER # 2
OPERATING RECORD**

PAST MONTH READING

532467777

Date	Day	Time	Integ. Reading	GPD	Pump # 11	Pump # 12
1	T	1105	532653802	171983	6603	6639
2	F	1020	532825785	↑	6626	6639
3				↑		
4				537624		
5	M	1050	533363409	170565	6698	6639
6	T	1005	533533974	150789	6698	6662
7	W	0630	533684763	177875	6698	6682
8	T	0640	533862638	203806	6698	6706
9	F	1025	534066444	↑	6699	6733
10				↑		
11				565423		
12	M	1010	534631867	184024	6699	6805
13	T	0920	534815891	178324	6722	6805
14	W	0740	534994215	212437	6745	6805
15	T	1015	535206652	188400	6771	6805
16	F	1005	535395052	↑	6795	6805
17				↑		
18				570175		
19	M	0950	535965227	193301	6867	6805
20	T	1030	536158528	161547	6867	6830
21	W	0640	536320015	214780	6867	6850
22	T	0930	536634855	191212	6867	6877
23	F	0935	536726067	↑	6867	6901
24				↑		
25				565460		
26	M	0815	537291527	182258	6867	6971
27	T	0725	537473785	214407	6890	6971
28	W	1005	537688192	183579	6917	6971
29	T					
30	F					
31						
Total				5217969		
Average				186356		

KWLK WENT DOWN 1-16-01

NEXT MONTH READING 537871771

DATE Mar. 1, 2001